

# Control and signalling units Ø 22

Harmony® XB4, metal

Pushbuttons, switches and pilot lights

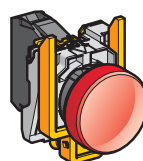
## Description

The Ø 22 range of metal control and signalling units comprises:

Complete units with chromium plated metal bezel, XB4 B

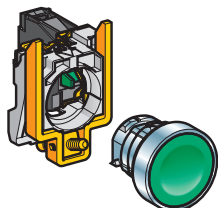


Pushbuttons and switches

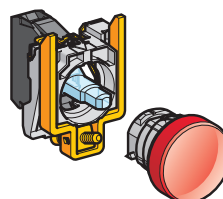


Pilot lights

Sub-assemblies with chromium plated or black metal bezel, ZB4 B

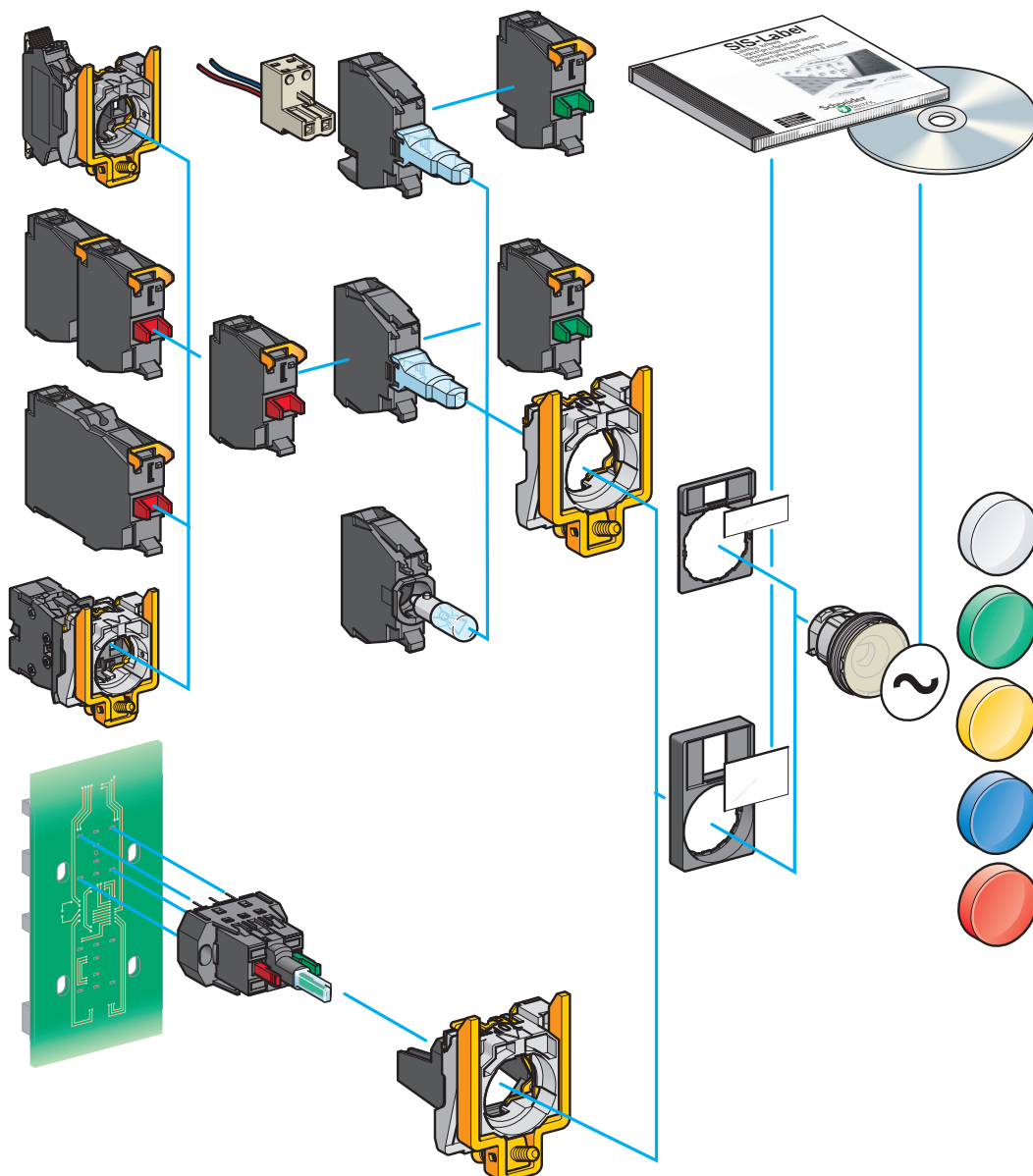


Pushbuttons and switches:  
body + head sub-assemblies



Pilot lights:  
body + head sub-assemblies

ZB component parts and accessories



## Schematic library

## Contact functions (pushbuttons, Emergency stop and Emergency switching off pushbuttons)

|                                                                                                   |                                                             |                                                                       |                                                                                        |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                                                                                   |                                                             |                                                                       |                                                                                        |
| Pushbutton<br>N/O contact                                                                         | Pushbutton<br>N/C contact                                   | Mushroom head spring return<br>N/O contact                            | Emergency switching off<br>mushroom head pushbutton-<br>Push-pull N/C contact          |
|                                                                                                   |                                                             |                                                                       |                                                                                        |
| Emergency stop trigger<br>action mushroom head - Push-pull<br>N/O + N/C contacts                  | Emergency switching off<br>- Turn to release<br>N/C contact | Emergency switching off<br>- Turn to release, with key<br>N/C contact | Emergency stop trigger action<br>mushroom head - Turn to release<br>N/O + N/C contacts |
|                                                                                                   |                                                             |                                                                       |                                                                                        |
| Emergency stop trigger<br>action mushroom head<br>Turn to release, with key<br>N/O + N/C contacts | Double-headed pushbutton<br>N/O + N/C contacts              | Early make contact block<br>N/O contact                               | Late break contact block<br>N/C contact                                                |

## Contact functions (selector switches)

|                                                                                                                |                                                             |                                                                                 |                                                                                          |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                                                                                                                |                                                             |                                                                                 |                                                                                          |
| Selector switch 2-position stay put<br>N/O contact                                                             | Selector switch 3-position stay put<br>N/O+N/O+N/O contacts | Selector switch 3-position<br>2 spring return to centre<br>N/O+N/O+N/O contacts | Selector switch 2-position stay put,<br>key withdrawal from LH position -<br>N/O contact |
|                                                                                                                |                                                             |                                                                                 |                                                                                          |
| Selector switch 2-position spring return from right to left,<br>key withdrawal from LH position<br>N/O contact |                                                             |                                                                                 |                                                                                          |

## Signalling functions

|                                             |                 |                                                                                                       |
|---------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------|
|                                             |                 |                                                                                                       |
| Pilot light with BA 9s<br>incandescent bulb | LED pilot light | Pilot light with integral transformer 230 V primary, 6 V secondary<br>BA 9s bulb, incandescent or LED |

## Combined functions, contact + signalling (pushbuttons and selector switches)

|                                                                        |                                                   |                                                                                                                                                    |
|------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        |                                                   |                                                                                                                                                    |
| Illuminated pushbutton,<br>BA 9s incandescent bulb<br>N/O+N/C contacts | Illuminated pushbutton<br>LED - N/O+ N/C contacts | Illuminated pushbutton with integral transformer<br>230 V ~ 50/60 Hz primary, 6 V secondary<br>BA 9s bulb, incandescent or LED - N/O+ N/C contacts |
|                                                                        |                                                   |                                                                                                                                                    |
| Double-headed pushbutton with LED pilot light                          |                                                   | Illuminated selector switch with LED, 2-position stay put<br>N/O + N/C contacts                                                                    |

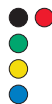
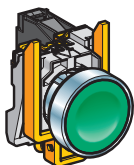
## Joystick controller functions

|                       |                    |                       |                    |
|-----------------------|--------------------|-----------------------|--------------------|
|                       |                    |                       |                    |
| 2 direction           | 2 direction        | 4 direction           | 4 direction        |
| Without spring return | With spring return | Without spring return | With spring return |

## Complete units

## Contact functions

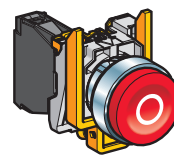
Pushbuttons, spring return,  
with chromium plated metal  
bezel



Flush push, unmarked  
XB4 BA1/BA42  
see page 20



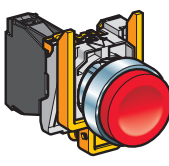
Flush push, with marking  
XB4 BA3311  
see page 22



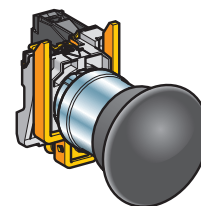
Projecting push, with marking  
XB4 BL4322  
see page 22



Booted flush push  
XB4 BP1/BP42  
see page 21



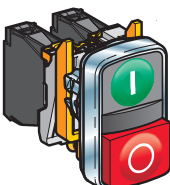
Projecting push, unmarked  
XB4 BL42  
see page 20



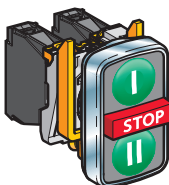
Ø 40

Mushroom head  
XB4 BC21  
see page 28

Multiple-headed  
pushbuttons, spring return,  
with chromium plated metal  
bezel

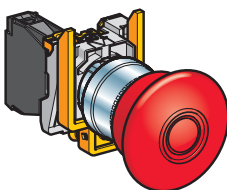


Double-headed  
XB4 BL73415  
see page 26

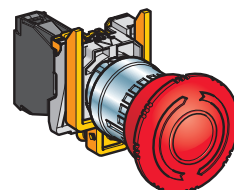


Triple-headed  
XB4 BA731327/XB4 BA711237  
see page 27

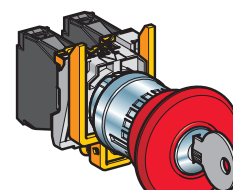
Emergency Stop or  
Emergency switching off  
mushroom head  
pushbuttons, Ø 40, with  
chromium plated metal bezel



Ø 40



Ø 40



Ø 40

Emergency stop trigger  
action and mechanical  
latching

Push-pull (EN/ISO 13850: 2006)  
XB4 BT845  
see page 30

Turn to release (EN/ISO 13850: 2006)  
XB4 BS844  
see page 30

Key release (EN/ISO 13850: 2006)  
XB4 BS9445  
see page 30

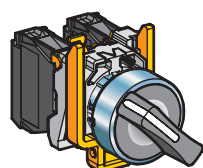
Emergency switching off  
mechanical latching

Push-pull (IEC 60364-5-53)  
XB4 BT42  
see page 31

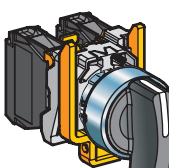
Turn to release (IEC 60364-5-53)  
XB4 BS542  
see page 31

Key release (IEC 60364-5-53)  
XB4 BS142  
see page 31

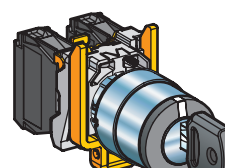
Selector switches and key  
switches, with chromium  
plated metal bezel



Standard handle, black  
XB4 BD  
see page 34



Long handle, black  
XB4 BJ  
see page 35

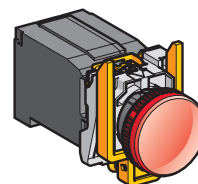
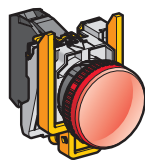
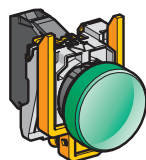


Key switch  
XB4 BG  
see page 36

## Complete units

## Signalling functions

## Pilot lights



## Integral LED

XB4 BVB●/BVG●/BVM●  
see page 40

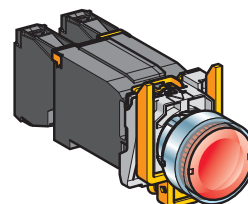
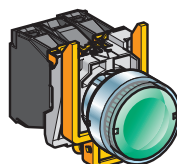
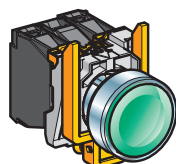
For bulb with BA 9s base fitting  
Direct supply

XB4 BV6●  
see page 41

## Via integral transformer with secondary

XB4 BV3●/BV4●  
see page 41

## Combined functions (contact + signalling)

Illuminated pushbuttons,  
spring return, flush push,  
chromium plated metal bezel

## Integral LED

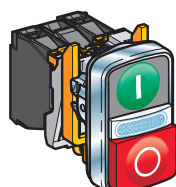
XB4 BW3●B5/BW3●G5/BW3●M5  
see page 23

For bulb with BA 9s base fitting  
Direct supply

XB4 BW3●65  
see page 25

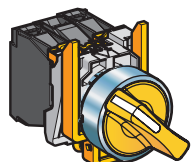
## Via integral transformer

XB4 BW3●35/BW3●45  
see page 25

Double-headed pushbuttons  
+ pilot light block, spring  
return, chromium plated  
metal bezel

## Integral LED

XB4 BW73731●5  
XB4 BW7A●●●●  
XB4 BW7A9  
XB4 BW7L374●  
see page 26

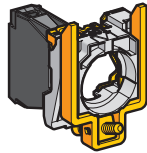
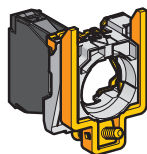
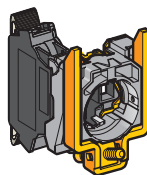
Illuminated selector switches  
with standard handle,  
chromium plated metal bezel

## Integral LED

XB4 BK12●●5, XB4 BK13●●5  
see page 38

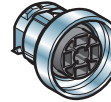
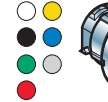
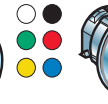
## Control and signalling units Ø 22

Harmony® XB4, metal

Pushbuttons, switches and pilot lights:  
sub-assemblies, ZB4 BNon illuminated units  
for user assemblyFor pushbuttons,  
spring return, unmarkedBody  
sub-assembliesScrew clamp  
terminals  
ZB4 BZ10●/BZ141  
page 44Faston  
ZB4 BZ10●3  
page 48Spring clamp  
terminals  
ZBE 10●5  
ZB4 BZ10●5  
page 46For pushbuttons,  
spring return, with markingFor multiple-headed  
pushbuttons, spring returnFor "push-push to release"  
pushbuttons

## Contact functions

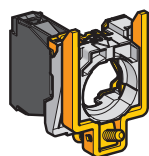
## Head sub-assemblies, chromium plated or black metal bezel

Flush push  
without cap  
ZB4 BA0  
page 20Flush push  
with set of 6 caps  
ZB4 BA9  
page 20Flush push  
ZB4 BA●  
page 20Flush push for  
insertion of legend  
ZB4 BA●8  
page 20Projecting push  
ZB4 BL●  
page 20Recessed push  
ZB4 BA●6  
page 21Booted flush/  
projecting push  
ZB4 BP●/ BP●S  
page 21Booted flush push  
for insertion of legend  
ZB4 BP●8  
page 21Flush push  
ZB4 BA●3●/BA●4●  
ZB4 BA334/335  
page 22Projecting push  
ZB4 BL●3●  
page 22Double-headed  
pushbuttons  
ZB4 BA7●●●  
ZB4 BA79  
ZB4 BL734●  
page 26Triple-headed pushbuttons  
ZB4 BA7313●  
ZB4 BA711●●  
ZB4 BA72124  
ZB4 BA791  
page 27Flush push  
ZB4 BH0●  
page 32Projecting push  
ZB4 BH●  
page 32

## Non illuminated units for user assembly (continued)

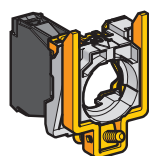
## Contact functions

For mushroom head  
pushbuttons



Screw clamp terminals  
ZB4 BZ10●/BZ141  
page 44

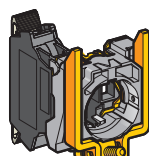
For Emergency Stop or  
Emergency switching off  
mushroom head pushbuttons



Faston  
ZB4 BZ10●3  
page 48

Emergency stop trigger  
action and mechanical  
latching

Emergency switching off  
mechanical latching



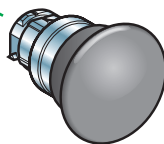
Spring clamp terminals  
ZBE 10●5  
ZB4 BZ10●5  
page 46

Emergency stop trigger  
action and mechanical  
latching

Emergency switching off  
mechanical latching

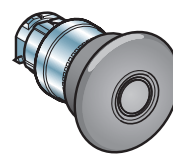
For selector switches  
and key switches

## Head sub-assemblies, chromium plated or black metal bezel



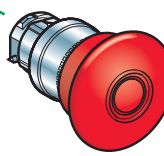
Ø 30  
Ø 40  
Ø 60

Spring return  
ZB4 BC●/BR●  
see page 28



Ø 30  
Ø 40  
Ø 60

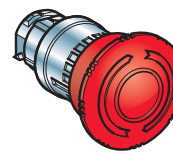
Latching  
ZB4 B●2/BS●2/BS55  
see page 29



Ø 30  
Ø 40  
Ø 60

Push-pull (EN/ISO 13850: 2006)  
ZB4 BT84  
see page 30

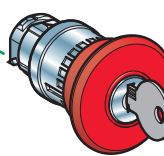
Push-pull (IEC 60364-5-3)  
ZB4 BT4/BX4  
see page 31



Ø 30  
Ø 40  
Ø 60

Turn to release (EN/ISO 13850: 2006)  
ZB4 BS8●4  
see page 30

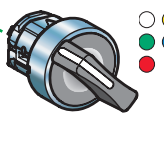
Turn to release (IEC 60364-5-3)  
ZB4 BS44/BS54/BS64  
see page 31



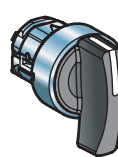
Ø 30  
Ø 40  
Ø 60

Key release (EN/ISO 13850: 2006)  
ZB4 BS9●4  
see page 30

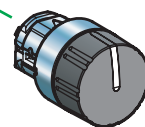
Key release (IEC 60364-5-3)  
ZB4 BS74/BS14/BS24  
see page 31



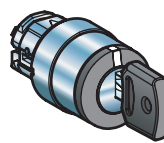
Standard black  
handle (1)  
ZB4 BD●  
page 34



Long black handle  
(1)  
ZB4 BJ●  
page 35

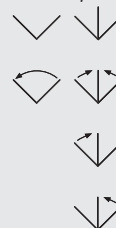


Knurled black knob  
(1)  
ZB4 BD●9  
page 37

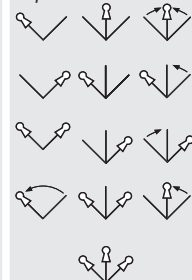


Key switch (2)  
ZB4 BG●●/  
BG●TEC10  
page 37

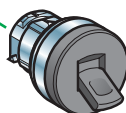
(1) Switch handle  
and knob positions



(2) Key switch  
positions  
Key withdrawal  
positions



For toggle switches



2-position lever (3)  
ZB4 BD●8, see page 37

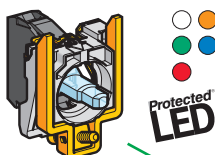
(3) Lever positions



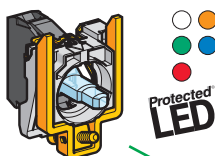
## Pilot lights for user assembly

## Signalling functions

### Body sub-assemblies with integral LED



Connection: screw  
clamp terminals  
**ZB4 BVJ/BVB/BVG/  
BVM**  
see page 52

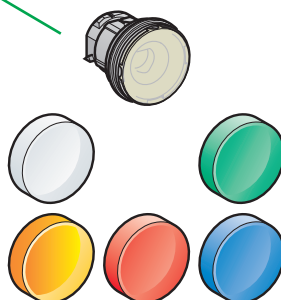


Connection: plug-in  
connector  
**ZB4 BVB●4/BVG●4/  
BVM●4**  
please consult your  
Regional Sales Office

### Head sub-assemblies



With lens fitted  
**ZB4 BV0●3**  
see page 40

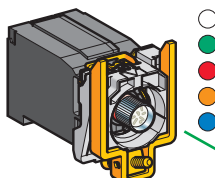


With 5 separate lenses, not fitted  
**ZB4 BV003**  
see page 40

### Body sub-assemblies for BA 9s bulb



Direct supply  
Connection: screw  
clamp terminals  
**ZB4 BV6**  
see page 55

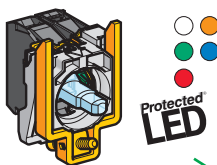


Via integral transformer  
Connection: screw clamp  
terminals  
**ZB4 BV●D●**  
see page 55

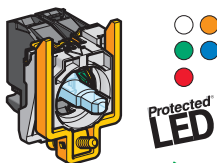
### Head sub-assemblies



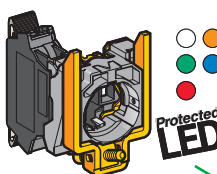
With lens fitted  
**ZB4 BV0●, ZB4 BV0●S**  
see page 41

Illuminated  
pushbuttons  
for user assemblyFor illuminated  
pushbuttons,  
spring returnBody sub-assemblies  
with integral LED

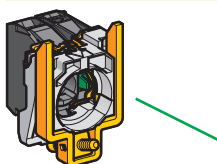
Screw clamp terminals

ZB4 BW0B/BW0G/  
BW0M  
page 50

Plug-in connector

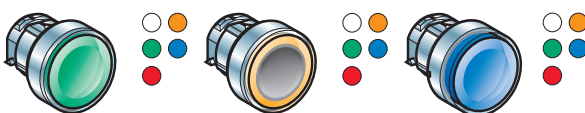
ZB4 BW0B...4  
please consult your  
Regional Sales OfficeFor illuminated double-  
headed pushbuttons,  
spring returnFor illuminated  
“push-push to release”  
pushbuttons and  
illuminated selector  
switches with standard  
handle

Spring clamp terminals

ZBV ...  
page 46For illuminated  
mushroom head  
pushbuttonsBody sub-assemblies  
for BA 9s bulbDirect supply or via  
integral transformer  
Screw clamp terminalsZB4 BW0...  
page 54For illuminated  
pushbuttons,  
spring return

## Combined functions (contact + signalling)

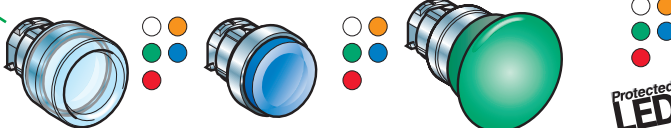
## Head sub-assemblies, chromium plated or black metal bezel



Flush push

ZB4 BW3...3  
page 24Flush push with  
illuminated ringZB4 BW9...3  
page 24

Flush push for insertion of legend

ZB4 BA...8  
page 24

Booted flush push

ZB4 BW5...3  
page 24

Projecting push

ZB4 BW1...3,  
ZB4 BW1...3S  
page 24

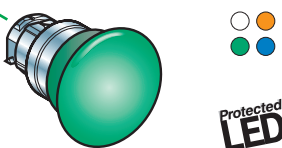
Mushroom head, spring return

ZB4 BW4...3  
page 28Double-headed (flush/flush push) + central pilot light  
Triple-headed (flush/projecting push) + central pilot lightZB4 BW7A17... / ZB4 BW7A374... / ZB4 BW7A9 / ZB4 BW7L374... see page 26  
ZB4 BA7313..., ZB4 BA71...3, ZB4 BA72124, ZB4 BA791, see page 27

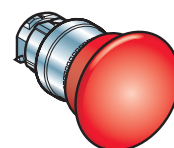
Flush or projecting “push-push to release”

ZB4 BH0...3/BH...3  
see page 33

Selector switches with standard handle

ZB4 BK1...3  
see page 39

Mushroom head, latching

ZB4 BW6...3  
see page 29Emergency switching off,  
mechanical latching, push-pullZB4 BW643  
see page 31

| Environment                                                                           |                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment<br>standard version                                              |                                                             |    | "TH" treatment                                                                                                                                                                                                                                                                                                                                                                                         |
| Ambient air temperature<br>around the device                                          | Storage                                                     | °C | - 40...+ 70                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                       | Operation                                                   | °C | - 25...+ 70: LED and neon bulb versions<br>- 25...+ 55: incandescent bulb version                                                                                                                                                                                                                                                                                                                      |
| Electric shock protection                                                             | Conforming to IEC 61140                                     |    | Class I                                                                                                                                                                                                                                                                                                                                                                                                |
| Degree of protection                                                                  | Conforming to IEC 60529                                     |    | IP 66<br>IP 69 K (Selector switches and multiple-headed pushbuttons)                                                                                                                                                                                                                                                                                                                                   |
|                                                                                       | Conforming to NEMA                                          |    | NEMA type 4X and 13, unless otherwise stated                                                                                                                                                                                                                                                                                                                                                           |
| Resistance to high pressure washer                                                    |                                                             | Pa | 70 x 10 <sup>5</sup> (70 bar); distance: 0.1 m<br>Temperature: 55°C                                                                                                                                                                                                                                                                                                                                    |
| Mechanical shock protection                                                           | Conforming to IEC 50102                                     |    | Non illuminated heads: IK 03<br>Illuminated heads: IK 05<br>Selector switch heads: IK 06                                                                                                                                                                                                                                                                                                               |
| Conforming to standards                                                               |                                                             |    | EN/IEC 60947-1, EN/IEC 60947-5-1,<br>EN/IEC 60947-5-4, EN/IEC 60947-5-5,<br>EN/IEC 60204-1 and EN/ISO 13850:2006<br>(Emergency stop trigger action and mechanical<br>latching pushbuttons, see page 30),<br>IEC 60364-5-53 (Emergency switching off<br>mechanical latching pushbuttons,<br>see page 31)<br>JIS C 4520, UL 508, CSA C22-2 n° 14                                                         |
| Product certifications                                                                | UL Listed, CSA                                              |    | Standard single contacts with screw clamp and<br>spring terminals: A600; Q600<br>Double contacts with screw clamp terminals:<br>A600; Q600<br>Light blocks with screw clamp terminals<br>Joystick controllers XD4 PA/ZD4 PA: A600; R300<br>Special contact blocks:<br>□ ZBE 201: A300; Q300<br>□ ZBE 202: A600; Q600<br>Single contacts for high power switching:<br>□ ZBE 501 and ZBE 502: A300; P300 |
|                                                                                       | UL Recognized, CSA                                          |    | Standard single contacts for plug-in connector:<br>A300; R300<br>Standard contacts for printed circuit board:<br>B300; R300                                                                                                                                                                                                                                                                            |
|                                                                                       | BV, RINA, LROS, DNV, GL                                     |    | Standard single contacts and double contacts with<br>screw clamp or spring terminals:                                                                                                                                                                                                                                                                                                                  |
| Terminal referencing                                                                  | Conforming to EN 50005<br>and EN 50013                      |    |                                                                                                                                                                                                                                                                                                                                                                                                        |
| Characteristics of contact or combined contact and signalling functions (see page 18) |                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mechanical characteristics                                                            |                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                                        |
| Contact operation                                                                     | N/C or N/O                                                  |    | Slow break                                                                                                                                                                                                                                                                                                                                                                                             |
| Positive operation                                                                    | Conforming to<br>EN/IEC 60947-5-1 appendix K                |    | All functions incorporating a N/C contact have<br>positive opening operation                                                                                                                                                                                                                                                                                                                           |
| Operating travel<br>(to change the electrical state)                                  | Pushbutton                                                  | mm | Changing N/C state: 1.5<br>Changing N/O state: 2.6<br>Total travel: 4.3                                                                                                                                                                                                                                                                                                                                |
| Operating force                                                                       | Pushbutton                                                  | N  | Changing N/C state: 3.5<br>Changing N/O state: 3.8                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                       | Additional contact only<br>(extra to change state)          | N  | Single N/C contact: 2<br>Single N/O contact: 2.3                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                       |                                                             | N  | Double N/C contact: 3.4<br>Double N/O contact: 5<br>Double contact N/C + N/O: 4.6                                                                                                                                                                                                                                                                                                                      |
|                                                                                       | Emergency stop or Emergency<br>switching off with N/C + N/O | N  | Standard push-pull: 45<br>Trigger action push-pull: 50                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                       |                                                             | N  | Standard turn to release and key release: 40<br>Trigger action turn to release and key release,<br>"trigger action": 44                                                                                                                                                                                                                                                                                |

#### Characteristics of contact or combined contact and signalling functions (continued) (see page 18)

| Mechanical characteristics (continued)                     |                                                            |                      |                 |                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------|------------------------------------------------------------|----------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating torque<br>(to change the electrical state)       | Selector switches                                          |                      | N.m             | N/O contact: 0.14                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            | Additional contact only                                    |                      | N.m             | N/O contact: 0.05                                                                                                                                                                                                                                                                                                                                                                                 |
| Mechanical durability<br>(in millions of operating cycles) | Pushbutton                                                 | Spring return        |                 | 5                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            |                                                            | Multiple-headed      |                 | 1                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            |                                                            | Push-push to release |                 | 0.5                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | Selector switch                                            | Non illuminated      |                 | 1                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            |                                                            | Illuminated          |                 | 0.5                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | Toggle switch                                              |                      |                 | 0.5                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | Emergency Stop or<br>Emergency switching off pushbutton    |                      |                 | 0.3 with 3 contacts                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | Joystick controller                                        |                      |                 | 1                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            | Standard contact block only                                |                      |                 | 5                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            | Low power switching contact<br>block only (dust protected) |                      |                 | 0.5                                                                                                                                                                                                                                                                                                                                                                                               |
| Vibration resistance                                       | Conforming to IEC 60068-2-6                                |                      |                 | Frequency: 2 to 500 Hz: 5 gn                                                                                                                                                                                                                                                                                                                                                                      |
| Mechanical shock resistance                                | Conforming to IEC 60068-2-27                               |                      |                 | All functions except mushroom head pushbuttons,<br>spring return:<br>□ half sine wave acceleration 11 ms: 50 gn<br>□ half sine wave acceleration 18 ms: 30 gn                                                                                                                                                                                                                                     |
|                                                            |                                                            |                      |                 | Mushroom head pushbutton, spring return:<br>□ half sine wave acceleration 11 ms: 10 gn                                                                                                                                                                                                                                                                                                            |
| Electrical characteristics                                 |                                                            |                      |                 |                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cabling capacity                                           | Conforming to EN/IEC 60947-1                               |                      | mm <sup>2</sup> | Standard block with screw clamp or spring terminals:<br>Min: 1 x 0.22 without cable end<br>Max: 2 x 1.5 with cable end<br>Cross headed screws (Pozidriv or Philips type 1),<br>slotted for flat 4 and 5.5 mm screwdriver<br>Tightening torque: 0.8 N.m (maxi 1.2 N.m)<br><br>Contact blocks for high power switching:<br>Min: 1 x 0.5 without cable end<br>Max: 2 x 2.5 with or without cable end |
| Contact material                                           | Silver alloy (Ag / Ni)                                     |                      |                 | Standard single and double blocks with screw<br>clamp or spring terminals<br>Blocks for plug-in connector<br>Standard blocks for printed circuit board<br>connection                                                                                                                                                                                                                              |
|                                                            | Gold flashed (Ag / Ni / Au)                                |                      |                 | Low power switching contact blocks with screw<br>clamp terminals<br>Low power switching contact blocks for printed<br>circuit board connection                                                                                                                                                                                                                                                    |
| Short-circuit protection                                   | Conforming to EN/IEC 60947-5-1d                            |                      | A               | Standard single and double blocks with screw<br>clamp or spring terminals: 10<br>(gG cartridge fuse conforming to IEC 60269-1)<br>Blocks for plug-in connector: 4<br>(gG cartridge fuse conforming to IEC 60269-1)<br>Standard blocks for printed circuit board<br>connection: 4<br>(gG cartridge fuse conforming to IEC 60269-1)                                                                 |
| Rated thermal current                                      | Conforming to EN/IEC 60947-5-1                             |                      | A               | Standard single and double blocks with screw<br>clamp or spring terminals: 10<br>Blocks for plug-in connector: 10<br>Standard blocks for printed circuit board<br>connection: 6                                                                                                                                                                                                                   |
| Rated insulation voltage                                   | Conforming to EN/IEC 60947-1                               |                      | V               | Standard single and double blocks with screw<br>clamp or spring terminals: Ui = 600, degree of<br>pollution 3<br>Blocks for plug-in connector or Faston connectors:<br>Standard blocks for printed circuit board connection<br>Contact blocks for high-power switching:<br>Ui = 250, degree of pollution 3                                                                                        |
| Rated impulse withstand voltage                            | Conforming to /IEC 60947-1                                 |                      | kV              | Standard single and double blocks with screw<br>clamp or spring terminals:Uimp = 6<br>Blocks for plug-in connector<br>Standard blocks for printed circuit board<br>connection<br>Contact blocks for high-power switching<br>applications: Uimp = 4                                                                                                                                                |

## Characteristics of contact or combined contact and signalling functions (continued) (see page 18)

### Electrical characteristics (continued)

|                                                                                                                                            |                                                        |                                                                                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rated operational characteristics</b><br>Conforming to EN/IEC 60947-5-1                                                                 |                                                        | a.c. supply:<br>utilisation category AC-15                                      |              | <b>Standard single and double blocks with screw clamp or spring terminals:</b><br>A600: Ue = 600 V and Ie = 1.2 A or<br>Ue = 240 V and Ie = 3 A or<br>Ue = 120 V and Ie = 6 A<br><b>Blocks for plug-in connector:</b><br>A300: Ue = 120 V and Ie = 6 A or<br>Ue = 240 V and Ie = 3 A<br><b>Standard blocks for printed circuit board connection:</b><br>B300: Ue = 120 V and Ie = 3 A or<br>Ue = 240 V and Ie = 1.5 A<br><b>Special contact blocks:</b><br>□ ZBE 201: A300: Ue = 240 V and Ie = 3 A or<br>Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V)<br>□ ZBE 202: A600: Ue = 600 V and Ie = 1.2 A or<br>Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A<br><b>Contact blocks for high power switching:</b><br>□ ZBE 50: A300: Ue = 240 V and Ie = 3 A or<br>Ue = 120 V and Ie = 6 A                                                                                                              |
|                                                                                                                                            |                                                        | d.c. supply:<br>utilisation category DC-13                                      |              | <b>Standard single and double blocks with screw clamp or spring terminals</b><br>Q600: Ue = 600 V and Ie = 0.1 A or<br>Ue = 250 V and Ie = 0.27 A or<br>Ue = 125 V and Ie = 0.55 A<br><b>Joystick controllers XD4 PA/ZD4 PA:</b><br>R300: Ue = 125 V and Ie = 0.22 A or<br>Ue = 250 V and Ie = 0.1 A<br><b>Blocks for plug-in connector:</b><br>R300: Ue = 125 V and Ie = 0.22 A or<br>Ue = 250 V and Ie = 0.1 A<br><b>Standard blocks for printed circuit board connection:</b><br>R300: Ue = 125 V and Ie = 0.22 A or<br>Ue = 250 V and Ie = 0.1 A<br><b>Special contact blocks:</b><br>□ ZBE 201: Q300: Ue = 125 V and Ie = 0.55 A or<br>Ue = 250 V and Ie = 0.27 A<br>□ ZBE 202: Q600: Ue = 600 V and Ie = 0.1 A or<br>Ue = 250 V and Ie = 0.27 A or<br>Ue = 125 V and Ie = 0.55 A<br><b>Contact block for high power switching:</b><br>□ ZBE 50: P300: Ue = 125 V and Ie = 1.1 A or<br>Ue = 250 V and Ie = 0.55 A |
| <b>Characteristics of special contact blocks</b>                                                                                           | Low power switching                                    |                                                                                 | VA<br>A<br>V | P max: 12<br>I max: 0.1<br>U max: 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                            | High power switching<br>Conforming to IEC/EN 60947-5-1 | 100 000 operating cycles<br>Load factor: 0.5<br>Operating rate: 900 cycles/hour | VA<br>A<br>V | P max: 240<br>I max: 10<br>U: 24 ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Electrical durability</b><br>Conforming to EN/IEC 60947-5-1 appendix C<br>Operating rate 3600 operating cycles/hour<br>Load factor: 0.5 |                                                        | a.c. supply for 1 million operating cycles<br>utilisation category AC-15        | V<br>A       | Standard single blocks with screw clamp or spring terminals:<br>24 120 230<br>4 3 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                            |                                                        |                                                                                 | V<br>A       | Standard double blocks with screw clamp terminals and blocks for plug-in connector:<br>24 120 230<br>3 1.5 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                            |                                                        | d.c. supply for 1 million operating cycles<br>utilisation category DC-13        | V<br>A       | Standard single blocks with screw clamp or spring terminals:<br>24 110<br>0.5 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                            |                                                        |                                                                                 | V<br>A       | Standard double blocks with screw clamp terminals and blocks four plug-in connector:<br>24 110<br>0.4 0.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Electrical reliability</b><br>Failure rate<br>Conforming to EN/IEC 60947-5-4                                                            |                                                        | In clean environment                                                            |              | Standard blocks:<br>- at 17 V and 5 mA, $\lambda < 10^{-8}$<br>- at 5 V and 1 mA, $\lambda < 10^{-6}$<br>Special blocks with gold flashed contacts for low power switching:<br>- at 5 V and 1 mA, $\lambda < 10^{-7}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                            |                                                        | In dusty environment                                                            |              | Special blocks with gold flashed contacts and dust protection for low power switching only:<br>- at 5 V and 1 mA, $\lambda < 10^{-7}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### Characteristics of illuminated units (pilot lights)

| Mechanical characteristics      |                              |                 |                                                                                                                                                                                                                                                                              |
|---------------------------------|------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vibration resistance            | Conforming to IEC 60068-2-6  |                 | Frequency: 12 to 500 Hz: 5 gn                                                                                                                                                                                                                                                |
| Electric shock resistance       | Conforming to IEC 60068-2-27 |                 | Half sine wave acceleration 11 ms: 50 gn<br>Half sine wave acceleration 18 ms: 30 gn                                                                                                                                                                                         |
| Electrical characteristics      |                              |                 |                                                                                                                                                                                                                                                                              |
| Cabling capacity                | Conforming to EN/IEC 60947-1 | mm <sup>2</sup> | Screw clamp and spring terminals<br>Min: 1 x 0.22 without cable end<br>(1 x 0.34 for linking)<br>Max: 2 x 1.5 with cable end                                                                                                                                                 |
| Rated insulation voltage        | Conforming to EN/IEC 60947-1 | V               | Direct supply pilot light blocks (BA 9s bulb):<br>U <sub>i</sub> = 250, degree of pollution 3<br>Pilot light blocks with integral LED:<br>U <sub>i</sub> = 250, degree of pollution 3<br>Pilot light blocks with transformer:<br>U <sub>i</sub> = 600, degree of pollution 3 |
| Rated impulse withstand voltage | Conforming to EN/IEC 60947-1 | kV              | Direct supply pilot light blocks (BA 9s bulb):<br>U <sub>imp</sub> = 4<br>Pilot light blocks with integral LED: U <sub>imp</sub> = 4<br>Pilot light blocks with transformer: U <sub>imp</sub> = 6                                                                            |

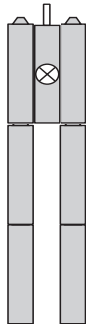
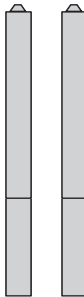
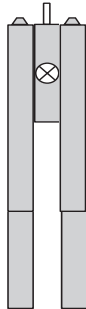
### Specific characteristics of single light blocks with integral LED

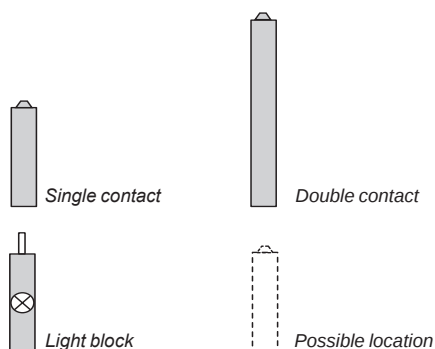
|                                                                                      |                                                         |     |                                                                                                                                                                            |
|--------------------------------------------------------------------------------------|---------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage limits                                                                       | For rated voltage                                       | V   | 12 V: 10 to 15 ~; 10.2 to 13.8 ~<br>24 V: 19.2 to 30 ~; 21.6 to 26.4 ~<br>24 to 120 V: 19.2 to 132 ~; 21.6 to 132 ~<br>48 to 120 V: 40 to 132 ~<br>230/240 V: 195 to 264 ~ |
| Current consumption                                                                  | Applicable to all colours                               | mA  | Blocks with ~ 12 V supply: 18<br>Blocks with ~ 24 V supply: 18<br>Blocks with ~ 120 V supply: 14<br>Blocks with ~ 240 V supply: 14                                         |
| Service life                                                                         | At rated voltage and at an ambient temperature of 25 °C | H   | 100 000                                                                                                                                                                    |
| Surge withstand                                                                      | Conforming to IEC 61000-4-5                             | kV  | 1                                                                                                                                                                          |
| Resistance to fast transients                                                        | Conforming to IEC 61000-4-4                             | kV  | 2                                                                                                                                                                          |
| Resistance to electromagnetic fields                                                 | Conforming to IEC 61000-4-3                             | V/m | 10                                                                                                                                                                         |
| Resistance to electrostatic discharges                                               | Conforming to IEC 61000-2-6                             | kV  | 8: in free air, in insulating parts<br>6: on contact, on metal parts                                                                                                       |
| Direct parallel connection across inductive load<br>e.g.: contactor coil or solenoid | Maximum power of load                                   | VA  | For high power applications (≥ 30 VA), a ZBZ V● LED suppressor must be connected across the light block terminals (see page 45)                                            |
| Electromagnetic emission                                                             | Conforming to IEC 55011                                 |     | Class B                                                                                                                                                                    |

### Specific characteristics

| Body/fixing collar                |                              |     |                                              |
|-----------------------------------|------------------------------|-----|----------------------------------------------|
| Tightening torque of fixing screw |                              | N.m | 0.8 (max 1.2)                                |
| Hour counters and annunciators    |                              |     |                                              |
| Voltage limits                    | Hour counter and annunciator |     | ± 10% of the nominal voltage                 |
| Current consumption               | Hour counter                 | mA  | XB5 DSB: 7 to 15<br>XB5 DSG: 8<br>XB5 DSM: 8 |
|                                   | Annunciator                  | mA  | 5                                            |

## Maximum recommended configurations guaranteeing achievement of catalogue characteristics

| Unit type<br>(complete units XB4 B, heads ZB4 B) | Pushbuttons, spring return<br>XB4 BA●, ZB4 BA●8,<br>(except ZB4 BA●8)<br>XB4 BC●, ZB4 BC●,<br>XB4 BL●, ZB4 BL●,<br>XB4 BP●, ZB4 BP●,<br>ZB4 BR●<br>Triple-headed pushbuttons<br>XB4 BA731327,<br>XB4 BA711137,<br>ZB4 BA7313●, ZB4 BA7111●,<br>ZB4 BA72124, ZB4 BA791 | Double-headed<br>pushbuttons<br>XB4 BL73415, ZB4 BA712●,<br>ZB4 B●734●, ZB4 BA79     | Illuminated pushbuttons,<br>spring return XB4 BW●,<br>ZB4 BW●, ZB4 BA●8<br>Double-headed pushbuttons<br>+ pilot light block<br>XB4 BW73731●5,<br>ZB4 BW7A17●●,<br>ZB4 BW7●374●, ZB4 BW7A9 |                       |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Solution using single contacts                   |                                                                                                                                                                                      |    |                                                                                                        |                       |
| Solution using single and double contacts        |                                                                                                                                                                                    |  |                                                                                                      |                       |
| Maximum recommended configurations               | Single contacts<br>Double contacts<br>+<br>single contacts<br>Light block                                                                                                                                                                                             | 9<br>3<br>+<br>3<br>–                                                                | 6<br>2<br>+<br>2<br>–                                                                                                                                                                     | 6<br>2<br>+<br>2<br>1 |

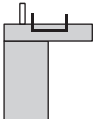
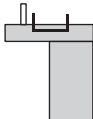
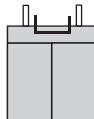
Possible configurations for high power switching contacts <sup>(1) (2)</sup>

High power switching contact blocks with screw clamp terminal connections:

ZBE 501, ZBE 502, ZBE 503, ZBE 504 and ZBE 505

High power switching contact blocks with connection by Faston connectors

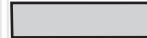
ZBE 5013, ZBE 5023, ZBE 5033, ZBE 5043 and ZBE 5053

|                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| 1 N/O                                                                               | 1 N/C                                                                                 | 1 N/O + N/C<br>1 N/O + N/O<br>1 N/C + N/C                                             |

<sup>(1)</sup> The configurations are not upgradable and cannot be combined with other types of contact and signalling functions.<sup>(2)</sup> High power switching contacts are not compatible with Harmony triple-headed pushbuttons.

| Emergency stop or Emergency switching off<br>XB4BT●, ZB4BT●, XB4BS●, ZB4BS● |   | Selector switches<br>■ Standard handle XB4 BD●, ZB4 BD●,<br>■ Long handle XB4 BJ●, ZB4 BJ●,<br>■ Knurled knob ZB4 BD●9,<br>■ Key switch XB4 BG●, ZB4 BG● |   |   |   | Illuminated selector switches, standard handle<br>XB4 BK●, ZB4 BK● | Toggle switches<br>ZB5 AD●8<br>Pushbuttons, push-turn to release, knurled operator<br>ZB5 AF●, or lockable<br>ZB5 FAD● | Pushbuttons, push-push<br>ZB4 BH● | Illuminated pushbuttons, push-push<br>ZB4 BH●3 |
|-----------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------|
|                                                                             |   |                                                                                                                                                          |   |   |   |                                                                    |                                                                                                                        |                                   |                                                |
|                                                                             |   |                                                                                                                                                          |   |   |   |                                                                    | —                                                                                                                      | —                                 |                                                |
| 4                                                                           | 4 | 5                                                                                                                                                        | 4 | 6 | 4 | 6                                                                  | 3                                                                                                                      | 2                                 |                                                |
| 2                                                                           | 1 | 2                                                                                                                                                        | 1 | 2 | 2 | 3                                                                  | —                                                                                                                      | —                                 |                                                |
| +                                                                           | + | +                                                                                                                                                        | + | + | + | +                                                                  | —                                                                                                                      | —                                 |                                                |
| 0                                                                           | 2 | 1                                                                                                                                                        | 2 | 2 | 0 | 0                                                                  | —                                                                                                                      | 1                                 |                                                |
| —                                                                           | — | —                                                                                                                                                        | — | — | 1 | —                                                                  | —                                                                                                                      | —                                 |                                                |

## Sequence of contacts fitted to selector switch bodies

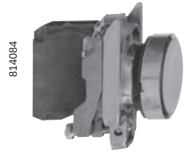
| Unit type                 |          |                                                                                     | Selector switches                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |
|---------------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|----|--|--|---------------------------------------------------------------------------------------|--|--|-----|--|--|---------------------------------------------------------------------------------------|--|--|
|                           |          |                                                                                     | 2-position                                                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 3-position                                                                            |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |
|                           |          |                                                                                     | 315°                                                                                |                                                                                     |                                                                                     |  |                                                                                     |                                                                                       | 45°                                                                                   |                                                                                       |                                                                                       |    |                                                                                       |                                                                                       | 315°                                                                                  |                                                                                       |                                                                                       |  |                                                                                       |  | 0° |  |  |  |  |  | 45° |  |  |  |  |  |
| Push                      | Position | Top                                                                                 |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |
|                           |          | Bottom                                                                              |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |
|                           | Location | L                                                                                   | C                                                                                   | R                                                                                   | L                                                                                   | C                                                                                   | R                                                                                   | L                                                                                     | C                                                                                     | R                                                                                     | L                                                                                     | C                                                                                     | R                                                                                     | L                                                                                     | C                                                                                     | R                                                                                     | L                                                                                     | C                                                                                     | R                                                                                     |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |
|                           | State    | 0                                                                                   | 0                                                                                   | 0                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                     | 1                                                                                     | 0                                                                                     | 0                                                                                     | 0                                                                                     | 0                                                                                     | 0                                                                                     | 0                                                                                     | 0                                                                                     | 1                                                                                     | 1                                                                                     | 1                                                                                     |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |
| Contacts                  | N/O      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |
|                           | N/C      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |
| L left, C centre, R right |          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |
| □ open, ■ closed          |          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |    |  |  |                                                                                       |  |  |     |  |  |                                                                                       |  |  |

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see pages 56 and 58

## Control and signalling units Ø 22

Harmony® XB4, metal

Spring return pushbuttons, unmarked



XB4 BA31



ZB4 BA0



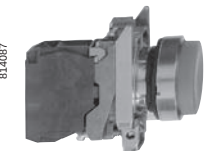
ZB4 BA4



ZB4 BA38



ZB4 BA34



XB4 BL42



ZB4 BL1

### Pushbuttons with flush push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of push | Type of contact |     | Colour of push | Reference | Weight |
|---------------|--------------|-----------------|-----|----------------|-----------|--------|
|               |              |                 |     |                |           |        |
|               |              | N/O             | N/C |                |           | kg     |

#### Complete units

|  |       |   |   |        |                                          |       |
|--|-------|---|---|--------|------------------------------------------|-------|
|  | Flush | 1 | – | White  | <b>XB4 BA11</b><br>(ZB4 BZ101 + ZB4 BA1) | 0.080 |
|  |       |   |   | Black  | <b>XB4 BA21</b><br>(ZB4 BZ101 + ZB4 BA2) | 0.080 |
|  |       |   |   | Green  | <b>XB4 BA31</b><br>(ZB4 BZ101 + ZB4 BA3) | 0.080 |
|  |       |   |   | Yellow | <b>XB4 BA51</b><br>(ZB4 BZ101 + ZB4 BA5) | 0.080 |
|  |       |   |   | Blue   | <b>XB4 BA61</b><br>(ZB4 BZ101 + ZB4 BA6) | 0.080 |
|  |       | – | 1 | Red    | <b>XB4 BA42</b><br>(ZB4 BZ102 + ZB4 BA4) | 0.080 |

#### Heads only

|  |                                                        |  |  |               |                 |       |
|--|--------------------------------------------------------|--|--|---------------|-----------------|-------|
|  | Without cap (2)                                        |  |  | –             | <b>ZB4 BA0</b>  | 0.028 |
|  | Flush, with set of 6 coloured caps                     |  |  | 6 colours (3) | <b>ZB4 BA9</b>  | 0.038 |
|  | Flush                                                  |  |  | White         | <b>ZB4 BA1</b>  | 0.029 |
|  |                                                        |  |  | Black         | <b>ZB4 BA2</b>  | 0.029 |
|  |                                                        |  |  | Green         | <b>ZB4 BA3</b>  | 0.029 |
|  |                                                        |  |  | Red           | <b>ZB4 BA4</b>  | 0.029 |
|  |                                                        |  |  | Yellow        | <b>ZB4 BA5</b>  | 0.029 |
|  |                                                        |  |  | Blue          | <b>ZB4 BA6</b>  | 0.029 |
|  |                                                        |  |  | Grey          | <b>ZB4 BA8</b>  | 0.029 |
|  | Flush with transparent cap for insertion of legend (4) |  |  | White         | <b>ZB4 BA18</b> | 0.028 |
|  |                                                        |  |  | Green         | <b>ZB4 BA38</b> | 0.028 |
|  |                                                        |  |  | Red           | <b>ZB4 BA48</b> | 0.028 |
|  |                                                        |  |  | Yellow        | <b>ZB4 BA58</b> | 0.028 |
|  |                                                        |  |  | Blue          | <b>ZB4 BA68</b> | 0.028 |
|  | Flush (high bezel)                                     |  |  | White         | <b>ZB4 BA14</b> | 0.034 |
|  |                                                        |  |  | Black         | <b>ZB4 BA24</b> | 0.034 |
|  |                                                        |  |  | Green         | <b>ZB4 BA34</b> | 0.034 |
|  |                                                        |  |  | Red           | <b>ZB4 BA44</b> | 0.034 |
|  |                                                        |  |  | Yellow        | <b>ZB4 BA54</b> | 0.034 |
|  |                                                        |  |  | Blue          | <b>ZB4 BA64</b> | 0.034 |

### Pushbuttons with projecting push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of push | Type of contact |     | Colour of push | Reference | Weight |
|---------------|--------------|-----------------|-----|----------------|-----------|--------|
|               |              |                 |     |                |           |        |
|               |              | N/O             | N/C |                |           | kg     |

#### Complete units

|  |            |   |   |     |                                          |       |
|--|------------|---|---|-----|------------------------------------------|-------|
|  | Projecting | – | 1 | Red | <b>XB4 BL42</b><br>(ZB4 BZ102 + ZB4 BL4) | 0.081 |
|--|------------|---|---|-----|------------------------------------------|-------|

#### Heads only

|  |            |  |  |        |                |       |
|--|------------|--|--|--------|----------------|-------|
|  | Projecting |  |  | White  | <b>ZB4 BL1</b> | 0.030 |
|  |            |  |  | Black  | <b>ZB4 BL2</b> | 0.030 |
|  |            |  |  | Green  | <b>ZB4 BL3</b> | 0.030 |
|  |            |  |  | Red    | <b>ZB4 BL4</b> | 0.030 |
|  |            |  |  | Yellow | <b>ZB4 BL5</b> | 0.030 |
|  |            |  |  | Blue   | <b>ZB4 BL6</b> | 0.030 |

### Heads with black metal bezel

To order, add a figure 7 to the references listed from above.

Example: **ZB4 BA0** becomes **ZB4 BA07**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) Coloured cap to be ordered separately: see page 56.

(3) Head supplied with 6 different coloured caps (white, black, green, red, yellow, blue) not fitted.

(4) For legend ordering information, see page 60.

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see pages 56 and 58

# Control and signalling units Ø 22

Harmony® XB4, metal

Spring return pushbuttons, unmarked

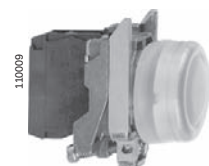


ZB4 BA36

## Pushbuttons with recessed push (1)

### High guard

| Shape of head     | Type of push          | Colour | Reference | Weight kg |
|-------------------|-----------------------|--------|-----------|-----------|
| <b>Heads only</b> |                       |        |           |           |
|                   | Recessed (high guard) | White  | ZB4 BA16  | 0.034     |
|                   |                       | Black  | ZB4 BA26  | 0.034     |
|                   |                       | Green  | ZB4 BA36  | 0.034     |
|                   |                       | Red    | ZB4 BA46  | 0.034     |
|                   |                       | Yellow | ZB4 BA56  | 0.034     |
|                   |                       | Blue   | ZB4 BA66  | 0.034     |



XB4 BP21

## Pushbuttons with silicone booted head for severe environments (1)

### Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head         | Type of push                                       | Type of contact |     | Colour of push | Reference                      | Weight kg |
|-----------------------|----------------------------------------------------|-----------------|-----|----------------|--------------------------------|-----------|
|                       |                                                    |                 |     |                |                                |           |
|                       |                                                    | N/O             | N/C |                |                                |           |
| <b>Complete units</b> |                                                    |                 |     |                |                                |           |
|                       | Booted, clear silicone (colour of push unobscured) | 1               | —   | Black          | XB4 BP21 (ZB4 BZ101 + ZB4 BP2) | 0.082     |
|                       |                                                    |                 |     | Green          | XB4 BP31 (ZB4 BZ101 + ZB4 BP3) | 0.082     |
|                       |                                                    |                 |     | Yellow         | XB4 BP51 (ZB4 BZ101 + ZB4 BP5) | 0.082     |
|                       |                                                    |                 |     | Blue           | XB4 BP61 (ZB4 BZ101 + ZB4 BP6) | 0.082     |
|                       |                                                    | —               | 1   | Red            | XB4 BP42 (ZB4 BZ102 + ZB4 BP4) | 0.082     |



ZB4 BP18

## Silicone booted heads only, with increased protection (IP 69K)

|  |            |                                                                     |        |          |       |
|--|------------|---------------------------------------------------------------------|--------|----------|-------|
|  | Flush      | Clear boot (2)<br>For insertion of protected legend within head (3) | White  | ZB4 BP18 | 0.034 |
|  |            |                                                                     | Green  | ZB4 BP38 | 0.034 |
|  |            |                                                                     | Red    | ZB4 BP48 | 0.034 |
|  |            |                                                                     | Yellow | ZB4 BP58 | 0.034 |
|  |            |                                                                     | Blue   | ZB4 BP68 | 0.034 |
|  | Projecting | Clear boot (2)                                                      | White  | ZB4 BP1  | 0.031 |
|  |            |                                                                     | Black  | ZB4 BP2  | 0.031 |
|  |            |                                                                     | Green  | ZB4 BP3  | 0.031 |
|  |            |                                                                     | Red    | ZB4 BP4  | 0.031 |
|  |            |                                                                     | Yellow | ZB4 BP5  | 0.031 |
|  |            |                                                                     | Blue   | ZB4 BP6  | 0.031 |



ZB4 BP2S

## Silicone booted heads only, standard for mouting with legend holder (IP 66)

|  |       |                                                                         |        |           |       |
|--|-------|-------------------------------------------------------------------------|--------|-----------|-------|
|  | Flush | Coloured boot (4)                                                       | White  | ZB4 BP1S  | 0.034 |
|  |       |                                                                         | Black  | ZB4 BP2S  | 0.034 |
|  |       |                                                                         | Green  | ZB4 BP3S  | 0.034 |
|  |       |                                                                         | Red    | ZB4 BP4S  | 0.034 |
|  |       |                                                                         | Yellow | ZB4 BP5S  | 0.034 |
|  |       |                                                                         | Blue   | ZB4 BP6S  | 0.034 |
|  |       | Clear membrane (4)<br>For insertion of protected legend within head (3) | White  | ZB4 BP183 | 0.026 |
|  |       |                                                                         | Green  | ZB4 BP383 | 0.026 |
|  |       |                                                                         | Red    | ZB4 BP483 | 0.026 |
|  |       |                                                                         | Yellow | ZB4 BP583 | 0.026 |
|  |       |                                                                         | Blue   | ZB4 BP683 | 0.026 |



ZB4 BP183

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: ZB4 BP18 becomes ZB4 BP187.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.

(3) To order a legend for insertion within the head, see page 58.

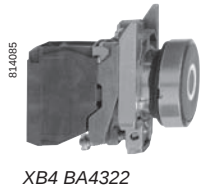
(4) Replacement of silicone protection element without dismantling head, see page 57.

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see pages 56 and 58

# Control and signalling units Ø 22

Harmony® XB4, metal

Spring return pushbuttons, with marking



| Pushbuttons with flush or projecting push <sup>(1)</sup>                       |              |                 |     |                       |                |                                         |        |
|--------------------------------------------------------------------------------|--------------|-----------------|-----|-----------------------|----------------|-----------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) |              |                 |     |                       |                |                                         |        |
| Shape of head                                                                  | Type of push | Type of contact |     | Marking Text (colour) | Colour of push | Reference                               | Weight |
|                                                                                |              |                 |     |                       |                |                                         | kg     |
|                                                                                |              | N/O             | N/C |                       |                |                                         |        |
| Complete units                                                                 |              |                 |     |                       |                |                                         |        |
|                                                                                | Flush        | 1               | –   | "I" (white)           | Green          | XB4 BA3311<br>(ZB4 BZ101 + ZB4 BA331)   | 0.080  |
|                                                                                | Flush        | –               | 1   | "O" (white)           | Red            | XB4 BA4322<br>(ZB4 BZ102 + ZB4 BA432)   | 0.080  |
|                                                                                | Projecting   | –               | 1   | "O" (white)           | Red            | XB4 BL4322 ▲<br>(ZB4 BZ102 + ZB4 BL432) | 0.080  |
|                                                                                | Flush (2)    | 1               | –   | ↑ (black)             | White          | XB4 BA3341<br>(ZB4 BZ101 + ZB4 BA334)   | 0.080  |
|                                                                                | Flush (2)    | 1               | –   | ↓ (white)             | Black          | XB4 BA3351<br>(ZB4 BZ101 + ZB4 BA335)   | 0.080  |
| Heads only                                                                     |              |                 |     |                       |                |                                         |        |
|                                                                                | Flush        |                 |     | "I" (white)           | Green          | ZB4 BA331                               | 0.029  |
|                                                                                |              |                 |     | "I" (black)           | White          | ZB4 BA131                               | 0.029  |
|                                                                                |              |                 |     | "II" (white)          | Green          | ZB4 BA336                               | 0.029  |
|                                                                                |              |                 |     | "II" (black)          | White          | ZB4 BA136                               | 0.029  |
|                                                                                |              |                 |     | "START" (white)       | Green          | ZB4 BA333                               | 0.029  |
|                                                                                |              |                 |     | "START" (black)       | White          | ZB4 BA133                               | 0.029  |
|                                                                                |              |                 |     | "ON" (white)          | Green          | ZB4 BA341                               | 0.029  |
|                                                                                |              |                 |     | "ON" (black)          | White          | ZB4 BA141                               | 0.029  |
|                                                                                |              |                 |     | "MARCHE" (white)      | Green          | ZB4 BA342                               | 0.029  |
|                                                                                |              |                 |     | "MARCHE" (black)      | White          | ZB4 BA142                               | 0.029  |
|                                                                                |              |                 |     | (white)               | Black          | ZB4 BA245                               | 0.029  |
|                                                                                |              |                 |     | (black)               | White          | ZB4 BA145                               | 0.029  |
|                                                                                |              |                 |     | "O" (white)           | Red            | ZB4 BA432                               | 0.029  |
|                                                                                |              |                 |     |                       | Black          | ZB4 BA232                               | 0.029  |
|                                                                                |              |                 |     | "ARRET" (white)       | Red            | ZB4 BA433                               | 0.029  |
|                                                                                |              |                 |     |                       | Black          | ZB4 BA233                               | 0.029  |
|                                                                                |              |                 |     | "STOP" (white)        | Red            | ZB4 BA434                               | 0.029  |
|                                                                                |              |                 |     |                       | Black          | ZB4 BA234                               | 0.029  |
|                                                                                |              |                 |     | "OFF" (white)         | Red            | ZB4 BA435                               | 0.029  |
|                                                                                |              |                 |     |                       | Black          | ZB4 BA235                               | 0.029  |
|                                                                                |              |                 |     | ↑ (black) (2)         | White          | ZB4 BA334                               | 0.029  |
|                                                                                |              |                 |     | ↓ (white) (2)         | Black          | ZB4 BA335                               | 0.029  |
|                                                                                | Projecting   |                 |     | "O" (white)           | Red            | ZB4 BL432                               | 0.030  |
|                                                                                |              |                 |     |                       | Black          | ZB4 BL232                               | 0.030  |
|                                                                                |              |                 |     | "ARRET" (white)       | Red            | ZB4 BL433                               | 0.030  |
|                                                                                |              |                 |     |                       | Black          | ZB4 BL233                               | 0.030  |
|                                                                                |              |                 |     | "STOP" (white)        | Red            | ZB4 BL434                               | 0.030  |
|                                                                                |              |                 |     |                       | Black          | ZB4 BL234                               | 0.030  |
|                                                                                |              |                 |     | "OFF" (white)         | Red            | ZB4 BL435                               | 0.030  |
|                                                                                |              |                 |     |                       | Black          | ZB4 BL235                               | 0.030  |

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.  
Example: **ZB4 BA331** becomes **ZB4 BA3317**.

- (1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.  
(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

▲ Available:  
1st quarter 2009.

General :  
page 6

Characteristics :  
page 14

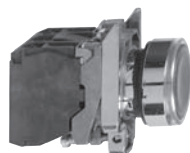
Dimensions :  
page 68

Assembly of other products using:  
body/contact assemblies: see page 44  
combined sub-assemblies: see page 50  
accessories: see page 58

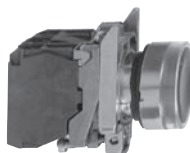
## Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated pushbuttons, spring return, with integral LED



XB4 BW33B5



XB4 BW34G5

| Illuminated pushbuttons with flush push (1)                                       |              |                                                                                   |                                                                                   |                         |                |                                               |        |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|----------------|-----------------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)    |              |                                                                                   |                                                                                   |                         |                |                                               |        |
| Shape of head                                                                     | Description  | Type of contact                                                                   |                                                                                   | Supply voltage          | Colour of push | Reference                                     | Weight |
|                                                                                   |              |  |  |                         |                |                                               |        |
|                                                                                   |              | N/O                                                                               | N/C                                                                               | V                       |                |                                               | kg     |
| Complete units - With plain lens                                                  |              |                                                                                   |                                                                                   |                         |                |                                               |        |
|  | Integral LED | 1                                                                                 | 1                                                                                 | ~ 24<br>50/60 Hz        | White          | <b>XB4 BW31B5</b><br>(ZB4 BW0B15 + ZB4 BW313) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Green          | <b>XB4 BW33B5</b><br>(ZB4 BW0B35 + ZB4 BW333) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Red            | <b>XB4 BW34B5</b><br>(ZB4 BW0B45 + ZB4 BW343) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Orange         | <b>XB4 BW35B5</b><br>(ZB4 BW0B55 + ZB4 BW353) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Blue           | <b>XB4 BW36B5</b><br>(ZB4 BW0B65 + ZB4 BW363) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   | ~ 110...120<br>50/60 Hz | White          | <b>XB4 BW31G5</b><br>(ZB4 BW0G15 + ZB4 BW313) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Green          | <b>XB4 BW33G5</b><br>(ZB4 BW0G35 + ZB4 BW333) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Red            | <b>XB4 BW34G5</b><br>(ZB4 BW0G45 + ZB4 BW343) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Orange         | <b>XB4 BW35G5</b><br>(ZB4 BW0G55 + ZB4 BW353) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Blue           | <b>XB4 BW36G5</b><br>(ZB4 BW0G65 + ZB4 BW363) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   | ~ 230...240<br>50/60 Hz | White          | <b>XB4 BW31M5</b><br>(ZB4 BW0M15 + ZB4 BW313) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Green          | <b>XB4 BW33M5</b><br>(ZB4 BW0M35 + ZB4 BW333) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Red            | <b>XB4 BW34M5</b><br>(ZB4 BW0M45 + ZB4 BW343) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Orange         | <b>XB4 BW35M5</b><br>(ZB4 BW0M55 + ZB4 BW353) | 0.097  |
|                                                                                   |              |                                                                                   |                                                                                   |                         | Blue           | <b>XB4 BW36M5</b><br>(ZB4 BW0M65 + ZB4 BW363) | 0.097  |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

Assembly of other products using:  
combined sub-assemblies: see page 50  
accessories: see page 18

# Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated pushbuttons, spring return, with integral LED



ZB4 BW333



ZB4 BW563



ZB4 BW113

## Illuminated pushbuttons with flush push (1)

| Shape of head                                                                      | Type of push                      | Colour | Reference | Weight kg |
|------------------------------------------------------------------------------------|-----------------------------------|--------|-----------|-----------|
| <b>Heads only (2) - With plain lens</b>                                            |                                   |        |           |           |
|   | Flush                             | White  | ZB4 BW313 | 0.026     |
|                                                                                    |                                   | Green  | ZB4 BW333 | 0.026     |
|                                                                                    |                                   | Red    | ZB4 BW343 | 0.026     |
|                                                                                    |                                   | Orange | ZB4 BW353 | 0.026     |
|                                                                                    |                                   | Blue   | ZB4 BW363 | 0.026     |
|   | Flush with illuminated ring       | White  | ZB4 BW913 | 0.026     |
|                                                                                    |                                   | Green  | ZB4 BW933 | 0.026     |
|                                                                                    |                                   | Red    | ZB4 BW943 | 0.026     |
|                                                                                    |                                   | Orange | ZB4 BW953 | 0.026     |
|                                                                                    |                                   | Blue   | ZB4 BW963 | 0.026     |
|   | Flush with clear boot             | White  | ZB4 BW513 | 0.031     |
|                                                                                    |                                   | Green  | ZB4 BW533 | 0.031     |
|                                                                                    |                                   | Red    | ZB4 BW543 | 0.031     |
|                                                                                    |                                   | Orange | ZB4 BW553 | 0.031     |
|                                                                                    |                                   | Blue   | ZB4 BW563 | 0.031     |
|  | Flush for insertion of legend (3) | White  | ZB4 BA18  | 0.028     |
|                                                                                    |                                   | Green  | ZB4 BA38  | 0.028     |
|                                                                                    |                                   | Red    | ZB4 BA48  | 0.028     |
|                                                                                    |                                   | Orange | ZB4 BA58  | 0.028     |
|                                                                                    |                                   | Blue   | ZB4 BA68  | 0.028     |

## Heads only (2) - With grooved lens (4)

|                                                                                     |       |        |            |       |
|-------------------------------------------------------------------------------------|-------|--------|------------|-------|
|  | Flush | White  | ZB4 BW313S | 0.026 |
|                                                                                     |       | Green  | ZB4 BW333S | 0.026 |
|                                                                                     |       | Red    | ZB4 BW343S | 0.026 |
|                                                                                     |       | Orange | ZB4 BW353S | 0.026 |
|                                                                                     |       | Blue   | ZB4 BW363S | 0.026 |

## Illuminated pushbuttons with projecting push (1)

| Shape of head                                                                       | Type of push | Colour | Reference  | Weight kg |
|-------------------------------------------------------------------------------------|--------------|--------|------------|-----------|
| <b>Heads only (2) - With plain lens</b>                                             |              |        |            |           |
|  | Projecting   | White  | ZB4 BW113  | 0.029     |
|                                                                                     |              | Green  | ZB4 BW133  | 0.029     |
|                                                                                     |              | Red    | ZB4 BW143  | 0.029     |
|                                                                                     |              | Orange | ZB4 BW153  | 0.029     |
|                                                                                     |              | Blue   | ZB4 BW163  | 0.029     |
|  | Projecting   | White  | ZB4 BW113S | 0.026     |
|                                                                                     |              | Green  | ZB4 BW133S | 0.026     |
|                                                                                     |              | Red    | ZB4 BW143S | 0.026     |
|                                                                                     |              | Orange | ZB4 BW153S | 0.026     |
|                                                                                     |              | Blue   | ZB4 BW163S | 0.026     |

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: ZB4 BW313 becomes ZB4 BW3137.

Example 2: ZB4 BW313S becomes ZB4 BW313S7.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) Only for use with bodies comprising a light source with integral LED.

(3) For legend ordering information, see page 58.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).

# Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated pushbuttons, spring return,  
with BA 9s base fitting

| Illuminated pushbuttons with flush push <sup>(1)</sup>                              |                                                                                                           |                                                                                   |                                                                                   |                        |                |                                             |        |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|----------------|---------------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)      |                                                                                                           |                                                                                   |                                                                                   |                        |                |                                             |        |
| Shape of head                                                                       | Description                                                                                               | Type of contact                                                                   |                                                                                   | Supply voltage         | Colour of push | Reference                                   | Weight |
|                                                                                     |                                                                                                           |  |  |                        |                |                                             |        |
|                                                                                     |                                                                                                           | N/O                                                                               | N/C                                                                               | V                      |                |                                             | kg     |
| Complete units - With plain lens                                                    |                                                                                                           |                                                                                   |                                                                                   |                        |                |                                             |        |
|    | Direct supply for bulb with BA 9s base fitting, 2.4 W max (bulb not included)                             | 1                                                                                 | 1                                                                                 | ≤ 250                  | White          | <b>XB4 BW3165</b><br>(ZB4 BW065 + ZB4 BW31) | 0.097  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Green          | <b>XB4 BW3365</b><br>(ZB4 BW065 + ZB4 BW33) | 0.097  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Red            | <b>XB4 BW3465</b><br>(ZB4 BW065 + ZB4 BW34) | 0.097  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Orange         | <b>XB4 BW3565</b><br>(ZB4 BW065 + ZB4 BW35) | 0.097  |
|                                                                                     | Via integral transformer 1.2 VA, 6 V secondary, incandescent bulb with BA 9s base fitting (bulb included) | 1                                                                                 | 1                                                                                 | ~110...120<br>50/60 Hz | White          | <b>XB4 BW3135</b><br>(ZB4 BW035 + ZB4 BW31) | 0.169  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Green          | <b>XB4 BW3335</b><br>(ZB4 BW035 + ZB4 BW33) | 0.169  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Red            | <b>XB4 BW3435</b><br>(ZB4 BW035 + ZB4 BW34) | 0.169  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Orange         | <b>XB4 BW3535</b><br>(ZB4 BW035 + ZB4 BW35) | 0.169  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   | ~ 230<br>50 Hz         | White          | <b>XB4 BW3145</b><br>(ZB4 BW045 + ZB4 BW31) | 0.170  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Green          | <b>XB4 BW3345</b><br>(ZB4 BW045 + ZB4 BW33) | 0.170  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Red            | <b>XB4 BW34M5</b><br>(ZB4 BW045 + ZB4 BW34) | 0.170  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Orange         | <b>XB4 BW3545</b><br>(ZB4 BW045 + ZB4 BW35) | 0.170  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   | ~220...240<br>60 Hz    | White          | <b>XB4 BW3145</b><br>(ZB4 BW045 + ZB4 BW31) | 0.170  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Green          | <b>XB4 BW3345</b><br>(ZB4 BW045 + ZB4 BW33) | 0.170  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Red            | <b>XB4 BW34M5</b><br>(ZB4 BW045 + ZB4 BW34) | 0.170  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Orange         | <b>XB4 BW3545</b><br>(ZB4 BW045 + ZB4 BW35) | 0.170  |
| Heads only <sup>(2)</sup> - With plain lens                                         |                                                                                                           |                                                                                   |                                                                                   |                        |                |                                             |        |
|  | Flush                                                                                                     |                                                                                   |                                                                                   |                        | White          | <b>ZB4 BW31</b>                             | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Green          | <b>ZB4 BW33</b>                             | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Red            | <b>ZB4 BW34</b>                             | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Orange         | <b>ZB4 BW35</b>                             | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Blue           | <b>ZB4 BW36</b>                             | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Clear          | <b>ZB4 BW37</b>                             | 0.027  |
| Heads only <sup>(2)</sup> - With grooved lens <sup>(3)</sup>                        |                                                                                                           |                                                                                   |                                                                                   |                        |                |                                             |        |
|  | Flush                                                                                                     |                                                                                   |                                                                                   |                        | White          | <b>ZB4 BW31S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Green          | <b>ZB4 BW33S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Red            | <b>ZB4 BW34S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Orange         | <b>ZB4 BW35S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Blue           | <b>ZB4 BW36S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Clear          | <b>ZB4 BW37S</b>                            | 0.027  |
| Illuminated pushbuttons with projecting push <sup>(1)</sup>                         |                                                                                                           |                                                                                   |                                                                                   |                        |                |                                             |        |
| Heads only <sup>(2)</sup> - With plain lens                                         |                                                                                                           |                                                                                   |                                                                                   |                        |                |                                             |        |
|  | Projecting                                                                                                |                                                                                   |                                                                                   |                        | White          | <b>ZB4 BW11</b>                             | 0.028  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Green          | <b>ZB4 BW13</b>                             | 0.028  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Red            | <b>ZB4 BW14</b>                             | 0.028  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Orange         | <b>ZB4 BW15</b>                             | 0.028  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Blue           | <b>ZB4 BW16</b>                             | 0.028  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Clear          | <b>ZB4 BW17</b>                             | 0.028  |
| Heads only <sup>(2)</sup> - With grooved lens <sup>(3)</sup>                        |                                                                                                           |                                                                                   |                                                                                   |                        |                |                                             |        |
|  | Projecting                                                                                                |                                                                                   |                                                                                   |                        | White          | <b>ZB4 BW11S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Green          | <b>ZB4 BW13S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Red            | <b>ZB4 BW14S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Orange         | <b>ZB4 BW15S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Blue           | <b>ZB4 BW16S</b>                            | 0.027  |
|                                                                                     |                                                                                                           |                                                                                   |                                                                                   |                        | Clear          | <b>ZB4 BW17S</b>                            | 0.027  |

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: **ZB4 BW31** becomes **ZB4 BW317**. Example 2: **ZB4 BW31S** becomes **ZB4 BW31S7**.

<sup>(1)</sup> Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18

<sup>(2)</sup> Only for use with bodies comprising a light source with BA9s base fitting bulb (incandescent, neon or LED).

<sup>(3)</sup> For use in bright ambient light conditions (outdoors in sunlight, for example).

User assembly of other units, using:  
body-contact assemblies: see page 44  
combined sub-assemblies: see page 50

# Control and signalling units Ø 22

Harmony® XB4 metal

Multiple-headed pushbuttons, spring return



XB4 BL73415



ZB4 BA7121



ZB4 BL7341



XB4 BW73731M5



ZB4 BW7A1721



ZB4 BW7A3741

## Double-headed pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Description | Type of contact |     | Colour and marking of caps (2) | Reference | Weight |
|---------------|-------------|-----------------|-----|--------------------------------|-----------|--------|
|               |             | N/O             | N/C |                                |           | kg     |

### Complete units

|  |                                                   |   |   |                                                              |             |       |
|--|---------------------------------------------------|---|---|--------------------------------------------------------------|-------------|-------|
|  | 2 pushes<br>(1 flush black +<br>1 projecting red) | 1 | 1 | White "I" on green background<br>White "O" on red background | XB4 BL73415 | 0.116 |
|--|---------------------------------------------------|---|---|--------------------------------------------------------------|-------------|-------|

### Heads only

|  |                      |  |  |                                                                |            |       |
|--|----------------------|--|--|----------------------------------------------------------------|------------|-------|
|  | 2 flush black pushes |  |  | White background + black background, unmarked                  | ZB4 BA7120 | 0.056 |
|  |                      |  |  | Black "I" on white background<br>White "O" on black background | ZB4 BA7121 | 0.056 |
|  |                      |  |  | Green background + red background, unmarked                    | ZB4 BA7340 | 0.056 |
|  |                      |  |  | White "I" on green background<br>White "O" on red background   | ZB4 BA7341 | 0.056 |
|  |                      |  |  | Without cap (3)                                                | ZB4 BA79   | 0.056 |

|  |                                             |  |  |                                                              |            |       |
|--|---------------------------------------------|--|--|--------------------------------------------------------------|------------|-------|
|  | 1 flush black push<br>1 projecting red push |  |  | Green background + red background, unmarked                  | ZB4 BL7340 | 0.056 |
|  |                                             |  |  | White "I" on green background<br>White "O" on red background | ZB4 BL7341 | 0.056 |

## Double-headed pushbuttons + 1 white central pilot light block (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Description | Type of contact |     | Colour and marking of caps (2) | Pilot light voltage | Reference | Weight |
|---------------|-------------|-----------------|-----|--------------------------------|---------------------|-----------|--------|
|               |             | N/O             | N/C |                                | V                   |           | kg     |

### Complete units

|  |                                                                                  |   |   |                                                              |     |               |       |
|--|----------------------------------------------------------------------------------|---|---|--------------------------------------------------------------|-----|---------------|-------|
|  | 1 flush black push<br>1 projecting red push<br>1 white central pilot light block | 1 | 1 | White "I" on green background<br>White "O" on red background | 24  | XB4 BW73731B5 | 0.130 |
|  |                                                                                  |   |   |                                                              | 120 | XB4 BW73731G5 | 0.130 |
|  |                                                                                  |   |   |                                                              | 240 | XB4 BW73731M5 | 0.130 |

### Heads only (5)

|  |                                                         |  |  |                                                                |  |              |       |
|--|---------------------------------------------------------|--|--|----------------------------------------------------------------|--|--------------|-------|
|  | 2 flush black pushes<br>1 clear central pilot light (4) |  |  | White background + black background, unmarked                  |  | ZB4 BW7A1720 | 0.056 |
|  |                                                         |  |  | Black "I" on white background<br>White "O" on black background |  | ZB4 BW7A1721 | 0.056 |
|  |                                                         |  |  | Green background + red background, unmarked                    |  | ZB4 BW7A3740 | 0.056 |
|  |                                                         |  |  | White "I" on green background<br>White "O" on red background   |  | ZB4 BW7A3741 | 0.056 |
|  |                                                         |  |  | Black "+" on white background<br>White "+" on black background |  | ZB4 BW7A1724 | 0.056 |
|  |                                                         |  |  | Black "-" on white background<br>Black "-" on white background |  | ZB4 BW7A1715 | 0.056 |
|  |                                                         |  |  | Without cap (3)                                                |  | ZB4 BW7A9    | 0.056 |

|  |                                                                                |  |  |                                                              |  |              |       |
|--|--------------------------------------------------------------------------------|--|--|--------------------------------------------------------------|--|--------------|-------|
|  | 1 flush black push<br>1 projecting red push<br>1 clear central pilot light (4) |  |  | Green background + red background, unmarked                  |  | ZB4 BW7L3740 | 0.056 |
|  |                                                                                |  |  | White "I" on green background<br>White "O" on red background |  | ZB4 BW7L3741 | 0.056 |

## Heads with black metal bezel

To order, add the suffix 7 to the references selected above. Example: ZB4 BA7120 becomes ZB4 BA71207.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(3) Caps to be ordered separately: see page opposite.

(4) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body sub-assembly.

(5) Only for use with bodies comprising a light source with integral LED.

New

General :  
page 6

Characteristics :  
page 14

Dimensions :  
page 68

User assembly of other units, using:  
body-contact assemblies: see page 44  
combined sub-assemblies: see page 50

# Control and signalling units Ø 22

Harmony® XB4 metal

Multiple-headed pushbuttons, spring return



XB4 BA731327



ZB4 BA73133



ZB4 BA71124



ZBA 7235



ZBA 7331



ZBA 7432



ZBA 709

## Triple-headed pushbuttons (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Description | Type of contact |     |     | Colour and marking of caps (3) | Reference | Weight |
|---------------|-------------|-----------------|-----|-----|--------------------------------|-----------|--------|
|               |             |                 |     |     |                                |           | kg     |
|               |             | N/O             | N/C | N/O |                                |           |        |

### Complete units

|  |                                                                             |   |   |   |                                                                 |              |       |
|--|-----------------------------------------------------------------------------|---|---|---|-----------------------------------------------------------------|--------------|-------|
|  | 2 flush black pushes + 1 central projecting red push marked "Stop" in white | 1 | 1 | 1 | White "I" on green background<br>White "II" on green background | XB4 BA731327 | 0.128 |
|  |                                                                             |   |   |   | Black "→" on white background<br>White "←" on black background  | XB4 BA711237 | 0.128 |

### Heads only

|  |                                                                             |  |  |  |                                                                 |             |       |
|--|-----------------------------------------------------------------------------|--|--|--|-----------------------------------------------------------------|-------------|-------|
|  | 2 flush black pushes + 1 central projecting red push marked "Stop" in white |  |  |  | White "I" on green background<br>White "II" on green background | ZB4 BA73132 | 0.056 |
|  |                                                                             |  |  |  | White "←" on green background<br>White "→" on green background  | ZB4 BA73133 | 0.056 |
|  |                                                                             |  |  |  | White "↑" on green background<br>White "↓" on green background  | ZB4 BA73134 | 0.056 |
|  |                                                                             |  |  |  | White "+" on green background<br>White "-" on green background  | ZB4 BA73135 | 0.056 |
|  |                                                                             |  |  |  | Black "+" on white background<br>Black "-" on white background  | ZB4 BA71115 | 0.056 |
|  |                                                                             |  |  |  | Black "→" on white background<br>White "←" on black background  | ZB4 BA71123 | 0.056 |
|  |                                                                             |  |  |  | Black "↑" on white background<br>White "↓" on black background  | ZB4 BA71124 | 0.056 |
|  |                                                                             |  |  |  | White "↑" on black background<br>White "↓" on black background  | ZB4 BA72124 | 0.056 |
|  |                                                                             |  |  |  | Without cap (4)                                                 | ZB4 BA791   | 0.056 |

## Specific accessories for multiple-headed pushbuttons

| Description                                                               | Background colour                    | Marking   | Sold in lots of | Reference | Weight |
|---------------------------------------------------------------------------|--------------------------------------|-----------|-----------------|-----------|--------|
| Caps only for clip-on mounting on double or triple-headed pushbuttons (5) | White                                | Unmarked  | 10              | ZBA 71    | 0.010  |
|                                                                           |                                      | "I" black | 10              | ZBA 7131  | 0.010  |
|                                                                           |                                      | "→" black | 10              | ZBA 7134  | 0.010  |
|                                                                           |                                      | "+" black | 10              | ZBA 7138  | 0.010  |
|                                                                           | Black                                | Unmarked  | 10              | ZBA 72    | 0.010  |
|                                                                           |                                      | "O" white | 10              | ZBA 7232  | 0.010  |
|                                                                           |                                      | "+" white | 10              | ZBA 7233  | 0.010  |
|                                                                           |                                      | "→" white | 10              | ZBA 7235  | 0.010  |
|                                                                           | Green                                | Unmarked  | 10              | ZBA 73    | 0.010  |
|                                                                           |                                      | "I" white | 10              | ZBA 7331  | 0.010  |
|                                                                           |                                      | "+" white | 10              | ZBA 7333  | 0.010  |
|                                                                           |                                      | "↑" white | 10              | ZBA 7335  | 0.010  |
|                                                                           | Red                                  | Unmarked  | 10              | ZBA 74    | 0.010  |
|                                                                           |                                      | "O" white | 10              | ZBA 7432  | 0.010  |
|                                                                           | Yellow                               | Unmarked  | 10              | ZBA 75    | 0.010  |
|                                                                           | Blue                                 | Unmarked  | 10              | ZBA 76    | 0.010  |
| Clear silicone boots(6)                                                   | For 2 flush pushes                   | —         | 10              | ZBA 708   | 0.055  |
|                                                                           | For 3 pushes                         | —         | 10              | ZBA 709   | 0.055  |
|                                                                           | For 1 flush push + 1 projecting push | —         | 10              | ZBA 710   | 0.055  |

### Heads with black metal bezel

To order, add the suffix 7 to the references selected above.

Example: ZB4 BA73132 becomes ZB4 BA731327.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) Not compatible with high power switching contacts and contacts for printed circuit board.

(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(4) Caps to be ordered separately: see accessories on this page.

(5) Can be clipped-in at 90° steps, through 360°.

(6) Can be replaced without dismantling the head.

New

General :  
page 6

Characteristics :  
page 14

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page 68

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

# Control and signalling units Ø 22

Harmony® XB4, metal

Mushroom head pushbuttons, spring return

814088



XB4 BC21

814166



ZB4 BC24

814167



ZB4 BC2

814168



ZB4 BR2

109543



ZB4 BR216



ZB4 BW443

## Mushroom head pushbuttons (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of push | Type of contact |     | Push Ø (mm) | Colour | Reference | Weight kg |
|---------------|--------------|-----------------|-----|-------------|--------|-----------|-----------|
|               |              |                 |     |             |        |           |           |
|               |              | N/O             | N/C |             |        |           |           |

### Complete units

|  |               |   |   |    |       |                                          |       |
|--|---------------|---|---|----|-------|------------------------------------------|-------|
|  | Mushroom head | 1 | — | 40 | Black | <b>XB4 BC21</b><br>(ZB4 BZ101 + ZB4 BC2) | 0.122 |
|--|---------------|---|---|----|-------|------------------------------------------|-------|

### Heads only

|  |               |  |  |               |        |                  |       |
|--|---------------|--|--|---------------|--------|------------------|-------|
|  | Mushroom head |  |  | 30            | Black  | <b>ZB4 BC24</b>  | 0.075 |
|  |               |  |  |               | Green  | <b>ZB4 BC34</b>  | 0.075 |
|  |               |  |  |               | Red    | <b>ZB4 BC44</b>  | 0.075 |
|  |               |  |  |               | Yellow | <b>ZB4 BC54</b>  | 0.075 |
|  |               |  |  |               | Blue   | <b>ZB4 BC64</b>  | 0.075 |
|  |               |  |  | 40            | Black  | <b>ZB4 BC2</b>   | 0.074 |
|  |               |  |  |               | Green  | <b>ZB4 BC3</b>   | 0.074 |
|  |               |  |  |               | Red    | <b>ZB4 BC4</b>   | 0.074 |
|  |               |  |  |               | Yellow | <b>ZB4 BC5</b>   | 0.074 |
|  |               |  |  |               | Blue   | <b>ZB4 BC6</b>   | 0.074 |
|  |               |  |  | 60            | Black  | <b>ZB4 BR2</b>   | 0.093 |
|  |               |  |  |               | Green  | <b>ZB4 BR3</b>   | 0.093 |
|  |               |  |  |               | Red    | <b>ZB4 BR4</b>   | 0.093 |
|  |               |  |  |               | Yellow | <b>ZB4 BR5</b>   | 0.093 |
|  |               |  |  |               | Blue   | <b>ZB4 BR6</b>   | 0.093 |
|  |               |  |  | 60 (3)        | Black  | <b>ZB4 BR216</b> | 0.054 |
|  |               |  |  | Hemispherical | Green  | <b>ZB4 BR316</b> | 0.054 |
|  |               |  |  |               | Red    | <b>ZB4 BR416</b> | 0.054 |
|  |               |  |  |               | Yellow | <b>ZB4 BR516</b> | 0.054 |
|  |               |  |  |               | Blue   | <b>ZB4 BR616</b> | 0.054 |

## Illuminated mushroom head pushbuttons (1) (2)

Integral LED

| Shape of head | Type of push  | Push Ø (mm) | Colour | Reference        | Weight kg |
|---------------|---------------|-------------|--------|------------------|-----------|
|               | Mushroom head | 40          | White  | <b>ZB4 BW413</b> | 0.051     |
|               |               |             | Green  | <b>ZB4 BW433</b> | 0.051     |
|               |               |             | Red    | <b>ZB4 BW443</b> | 0.051     |
|               |               |             | Orange | <b>ZB4 BW453</b> | 0.051     |
|               |               |             | Blue   | <b>ZB4 BW463</b> | 0.051     |

Protected  
LED

## Heads with black metal bezel

To order, add a figure 7 to the references selected above.  
Example: **ZB4 BC24** becomes **ZB4 BC247**.

(1) These pushbuttons and heads cannot be used for an Emergency Stop function.

Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head: 6.

(4) Only for use with bodies comprising a light block with integral LED.

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

# Control and signalling units Ø 22

Harmony® XB4, metal

Mushroom head pushbuttons, latching

## Mushroom head pushbuttons (1) (2)

| Shape of head                                                                      | Type of reset                                                                                                                                          | Push Ø (mm) | Colour | Reference    | Weight kg |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|--------------|-----------|
| <b>Heads only</b>                                                                  |                                                                                                                                                        |             |        |              |           |
|   | Push-pull                                                                                                                                              | 40          | Black  | ZB4 BT2      | 0.077     |
|                                                                                    |                                                                                                                                                        | 60          | Black  | ZB4 BX2      | 0.095     |
|   | Turn to release                                                                                                                                        | 30          | Black  | ZB4 BS42     | 0.066     |
|                                                                                    |                                                                                                                                                        | 40          | Black  | ZB4 BS52     | 0.070     |
|                                                                                    |                                                                                                                                                        | 40          | Yellow | ZB4 BS55     | 0.070     |
|                                                                                    |                                                                                                                                                        | 60          | Black  | ZB4 BS62     | 0.090     |
|  | Key release (key n° 455)<br>(2 keys included with head) (3)<br> (5) | 30          | Black  | ZB4 BS72     | 0.066     |
|                                                                                    |                                                                                                                                                        | 40          | Black  | ZB4 BS12 (4) | 0.070     |
|                                                                                    |                                                                                                                                                        | 60          | Black  | ZB4 BS22     | 0.090     |



ZB4 BT2



ZB4 BS62



ZB4 BS72

## Illuminated mushroom head pushbuttons (1) (2)

### Integral LED

| Shape of head                                                                       | Type of reset | Push Ø (mm) | Colour | Reference | Weight kg |
|-------------------------------------------------------------------------------------|---------------|-------------|--------|-----------|-----------|
| <b>Heads only</b>                                                                   |               |             |        |           |           |
|  | Mushroom head | 40          | White  | ZB4 BW613 | 0.051     |
|                                                                                     |               |             | Green  | ZB4 BW633 | 0.051     |
|                                                                                     |               |             | Orange | ZB4 BW653 | 0.051     |
|                                                                                     |               |             | Blue   | ZB4 BW663 | 0.051     |

## Heads with black metal bezel

To order, add a figure 7 to the references selected above.  
Example: ZB4 BT2 becomes ZB4 BT27.

(1) These pushbuttons and heads cannot be used for an Emergency Stop function.

Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(3) For specific keys with other numbers, please consult your Regional Sales Office.

(4) Other key numbers:

- key n° 421E: add suffix 12 to the reference.

- key n° 458A: add suffix 10 to the reference.

- key n° 520E: add suffix 14 to the reference.

- key n° 3131A: add suffix 20 to the reference.

Example: To order a Ø 40 black mushroom head for a latching pushbutton, with release by key n° 421E, the reference becomes: ZB4 BS1212.

(5) The symbol  indicates key withdrawal position(s).

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see pages 63 and 64

## Control and signalling units Ø 22

Harmony® XB4, metal

Emergency stop devices

Conforming to EN/IEC 60204-1 and

EN/ISO 13850:2006 and Machinery Directive 98/37/EC

Mushroom head Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850:2006, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

### Emergency stop trigger action and mechanical latching pushbuttons <sup>(1) (2)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of reset | Type of contact                                                                   |                                                                                   | Push   |        | Reference | Weight<br>kg |
|---------------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|--------|-----------|--------------|
|               |               |  |  | Ø (mm) | Colour |           |              |

#### Complete units

|                                                                                    |                                                                                                                     |   |   |    |     |                                               |       |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---|---|----|-----|-----------------------------------------------|-------|
|   | Push-pull                                                                                                           | 1 | 1 | 40 | Red | <b>XB4 BT845</b><br>(ZB4 BZ105 + ZB4 BT84)    | 0.136 |
|                                                                                    | Turn to release                                                                                                     | 1 | 1 | 40 | Red | <b>XB4 BS8445</b><br>(ZB4 BZ105 + ZB4 BS844)  | 0.130 |
|                                                                                    |                                                                                                                     | — | 2 | 40 | Red | <b>XB4 BS8444</b><br>(ZB4 BZ104 + ZB4 BS844)  | 0.130 |
|                                                                                    |                                                                                                                     | 1 | 2 | 40 | Red | <b>XB4 BS84441</b><br>(ZB4 BZ141 + ZB4 BS844) | 0.140 |
|  | Key release (key n° 455)<br> (3) | 1 | 1 | 40 | Red | <b>XB4 BS9445</b><br>(ZB4 BZ105 + ZB4 BS944)  | 0.170 |

#### Heads only

| Shape of head                                                                       | Type of reset                                                                                                                                        | Push |        | Reference            | Weight<br>kg |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|----------------------|--------------|
|                                                                                     |                                                                                                                                                      | Ø mm | Colour |                      |              |
|  | Push-pull                                                                                                                                            | 30   | Red    | <b>ZB4 BT844 ▲</b>   | 0.078        |
|                                                                                     |                                                                                                                                                      | 40   | Red    | <b>ZB4 BT84</b>      | 0.078        |
|                                                                                     |                                                                                                                                                      | 60   | Red    | <b>ZB4 BX84</b>      | 0.098        |
|  | Turn to release                                                                                                                                      | 30   | Red    | <b>ZB4 BS834</b>     | 0.068        |
|                                                                                     |                                                                                                                                                      | 40   | Red    | <b>ZB4 BS844</b>     | 0.073        |
|                                                                                     |                                                                                                                                                      | 60   | Red    | <b>ZB4 BS864</b>     | 0.093        |
|  | Key release (key n° 455)<br>2 keys included with head (5)<br> (3) | 30   | Red    | <b>ZB4 BS934</b>     | 0.094        |
|                                                                                     |                                                                                                                                                      | 40   | Red    | <b>ZB4 BS944 (4)</b> | 0.098        |
|                                                                                     |                                                                                                                                                      | 60   | Red    | <b>ZB4 BS964</b>     | 0.118        |

#### Bellows for harsh environments (IP 69K)

| For use in                                                           | Material | Colour | Sold in lots of | Unit reference | Weight<br>kg |
|----------------------------------------------------------------------|----------|--------|-----------------|----------------|--------------|
| Environments subject to humidity, dust, high pressure cleaning, etc. | Silicone | Red    | 2               | <b>ZBZ 48</b>  | 0.009        |
|                                                                      | EPDM     | Black  | 2               | <b>ZBZ 28</b>  | 0.009        |
|                                                                      |          | Yellow | 2               | <b>ZBZ 58</b>  | 0.009        |

#### Heads with black metal bezel

To order, add a figure 7 to the references selected above.

Example: **ZB4 BT844** becomes **ZB4 BT8447**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.
- key n° 458A: add suffix **10** to the reference.
- key n° 520E: add suffix **14** to the reference.
- key n° 3131A: add suffix **20** to the reference.
- key n° 4A185: add suffix **D** to the reference.

Example: To order a Ø 40 red mushroom head for a trigger action and mechanical latching Emergency stop pushbutton, with release by key n° 421E, the reference becomes: **ZB4 BS94412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

▲ Available:  
1<sup>st</sup> quarter 2009.

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Characteristics :  
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Assembly of other products using:  
body/contact assemblies: see page 44  
combined sub-assemblies: see page 50  
accessories: see pages 58 and 64

# Control and signalling units Ø 22

Harmony® XB4, metal

Emergency switching off devices

Conforming to IEC 60364-5-53

Mushroom head switching off mechanical latching pushbuttons conform to standards IEC 60364-5-53 and EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

## Emergency switching off, mechanical latching pushbuttons (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                       | Type of reset                                                                                                                                        | Type of contact                                                                                                                                                             | Push<br>Ø mm | Colour | Reference                                  | Weight<br>kg |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------------------------------------|--------------|
|                                                                                     |                                                                                                                                                      |  N/O  N/C |              |        |                                            |              |
| <b>Complete units</b>                                                               |                                                                                                                                                      |                                                                                                                                                                             |              |        |                                            |              |
|    | Push-pull                                                                                                                                            | — 1                                                                                                                                                                         | 40           | Red    | <b>XB4 BT42</b><br>(ZB4 BZ102 + ZB4 BT4)   | 0.125        |
|    | Turn to release                                                                                                                                      | — 1                                                                                                                                                                         | 40           | Red    | <b>XB4 BS542</b><br>(ZB4 BZ102 + ZB4 BS54) | 0.118        |
|    | Key release<br>(key n° 455)<br> (3)                                 | — 1                                                                                                                                                                         | 40           | Red    | <b>XB4 BS142</b><br>(ZB4 BZ102 + ZB4 BS14) | 0.133        |
| <b>Heads only</b>                                                                   |                                                                                                                                                      |                                                                                                                                                                             |              |        |                                            |              |
|   | Push-pull                                                                                                                                            |                                                                                                                                                                             | 30           | Red    | <b>ZB4 BT44 ▲</b>                          | 0.077        |
|                                                                                     |                                                                                                                                                      |                                                                                                                                                                             | 40           | Red    | <b>ZB4 BT4</b>                             | 0.077        |
|                                                                                     |                                                                                                                                                      |                                                                                                                                                                             | 60           | Red    | <b>ZB4 BX4</b>                             | 0.095        |
|  | Turn to release                                                                                                                                      |                                                                                                                                                                             | 30           | Red    | <b>ZB4 BS44</b>                            | 0.066        |
|                                                                                     |                                                                                                                                                      |                                                                                                                                                                             | 40           | Red    | <b>ZB4 BS54</b>                            | 0.070        |
|                                                                                     |                                                                                                                                                      |                                                                                                                                                                             | 60           | Red    | <b>ZB4 BS64</b>                            | 0.090        |
|  | Key release (key n° 455)<br>2 keys included with head (5)<br> (3) |                                                                                                                                                                             | 30           | Red    | <b>ZB4 BS74</b>                            | 0.066        |
|                                                                                     |                                                                                                                                                      |                                                                                                                                                                             | 40           | Red    | <b>ZB4 BS14 (4)</b>                        | 0.070        |
|                                                                                     |                                                                                                                                                      |                                                                                                                                                                             | 60           | Red    | <b>ZB4 BS24</b>                            | 0.090        |

## Illuminated Emergency switching off, mechanical latching pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                       | Type of reset | Push<br>Ø mm | Colour | Reference        | Weight<br>kg |
|-------------------------------------------------------------------------------------|---------------|--------------|--------|------------------|--------------|
| <b>Heads only (6)</b>                                                               |               |              |        |                  |              |
|  | Push-pull     | 40           | Red    | <b>ZB4 BW643</b> | 0.051        |

## Heads with black metal bezel

To order, add a figure 7 to the references selected above.

Example: **ZB4 BT4** becomes **ZB4 BT47**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.

- key n° 458A: add suffix **10** to the reference.

- key n° 520E: add suffix **14** to the reference.

- key n° 3131A: add suffix **20** to the reference.

Example: To order a Ø 40 red mushroom head for a mechanical latching Emergency switching off pushbutton, with release by key n° 421E, the reference becomes: **ZB4 BS1412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

(6) Only for use with bodies comprising a light source with integral LED.

▲ Available:  
1<sup>st</sup> quarter 2009.

General :  
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Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

## Control and signalling units Ø 22

Harmony® XB4, metal

Pushbuttons, push-push

### Pushbuttons with flush push (1)

| Shape of head                                                                     | Type of push    | Colour of push | Reference | Weight kg |
|-----------------------------------------------------------------------------------|-----------------|----------------|-----------|-----------|
| Heads only                                                                        |                 |                |           |           |
|  | Without cap (2) | –              | ZB4 BH0   | 0.028     |
|  | Flush           | White          | ZB4 BH01  | 0.029     |
|                                                                                   |                 | Black          | ZB4 BH02  | 0.029     |
|                                                                                   |                 | Green          | ZB4 BH03  | 0.029     |
|                                                                                   |                 | Red            | ZB4 BH04  | 0.029     |
|                                                                                   |                 | Yellow         | ZB4 BH05  | 0.029     |
|                                                                                   |                 | Blue           | ZB4 BH06  | 0.029     |

844154



ZB4 BH02

### Pushbuttons with projecting push (1)

| Shape of head                                                                       | Type of push | Colour of push | Reference | Weight kg |
|-------------------------------------------------------------------------------------|--------------|----------------|-----------|-----------|
| Heads only                                                                          |              |                |           |           |
|  | Projecting   | White          | ZB4 BH1   | 0.029     |
|                                                                                     |              | Black          | ZB4 BH2   | 0.029     |
|                                                                                     |              | Green          | ZB4 BH3   | 0.029     |
|                                                                                     |              | Red            | ZB4 BH4   | 0.029     |
|                                                                                     |              | Yellow         | ZB4 BH5   | 0.029     |
|                                                                                     |              | Blue           | ZB4 BH6   | 0.029     |

523792



ZB4 BH6

### Heads with black metal bezel

To order, add a figure 7 to the references selected above.  
Example: ZB4 BH01 becomes ZB4 BH017.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) Caps to be ordered separately, see page 56

Assembly of other products using:  
combined sub-assemblies: see page 48  
accessories: see page 58

# Control and signalling units Ø 22

## Harmony® XB4, metal

### Illuminated pushbuttons, push-push, with integral LED



ZB4 BH033

| Illuminated pushbuttons with flush push <sup>(1)</sup>                            |              |                |           |           |
|-----------------------------------------------------------------------------------|--------------|----------------|-----------|-----------|
| Shape of head                                                                     | Type of push | Colour of lens | Reference | Weight kg |
| Heads only <sup>(2)</sup>                                                         |              |                |           |           |
|  | Flush        | White          | ZB4 BH013 | 0.026     |
|                                                                                   |              | Green          | ZB4 BH033 | 0.026     |
|                                                                                   |              | Red            | ZB4 BH043 | 0.026     |
|                                                                                   |              | Orange         | ZB4 BH053 | 0.026     |
|                                                                                   |              | Blue           | ZB4 BH063 | 0.026     |

| Illuminated pushbuttons with projecting push <sup>(1)</sup>                        |              |                |           |           |
|------------------------------------------------------------------------------------|--------------|----------------|-----------|-----------|
| Shape of head                                                                      | Type of push | Colour of lens | Reference | Weight kg |
| Heads only <sup>(2)</sup>                                                          |              |                |           |           |
|  | Projecting   | White          | ZB4 BH13  | 0.026     |
|                                                                                    |              | Green          | ZB4 BH33  | 0.026     |
|                                                                                    |              | Red            | ZB4 BH43  | 0.026     |
|                                                                                    |              | Orange         | ZB4 BH53  | 0.026     |
|                                                                                    |              | Blue           | ZB4 BH63  | 0.026     |



ZB4 BH63

#### Heads with black metal bezel

To order, add a figure 7 to the references selected above.  
Example: ZB4 BH013 becomes ZB4 BH0137.

- (1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.  
(2) Only for use with bodies comprising a light source with integral LED.

# Control and signalling units Ø 22

Harmony® XB4, metal

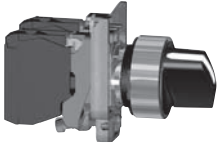
Selector switches with standard handle

## Selector switches with standard handle <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of operator | Type of contact                                                                          |                                                                                          | Positions |      | Reference | Weight |
|---------------|------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------|------|-----------|--------|
|               |                  | <br>N/O | <br>N/C | Number    | Type |           |        |

### Complete units

|                                                                                   |                                                                                   |   |   |                     |                                  |                                                                                     |                                          |       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|---|---------------------|----------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|-------|
|  |  | 1 | — | 2-position<br>90°   | Stay put                         |  | <b>XB4 BD21</b><br>(ZB4 BZ101 + ZB4 BD2) | 0.095 |
|                                                                                   |                                                                                   |   |   |                     | Spring return from right to left |  | <b>XB4 BD41</b><br>(ZB4 BZ101 + ZB4 BD4) | 0.100 |
|                                                                                   |                                                                                   | 1 | 1 |                     | Stay put                         |  | <b>XB4 BD25</b><br>(ZB4 BZ105 + ZB4 BD2) | 0.095 |
|                                                                                   |                                                                                   | 2 | — | 3-position<br>± 45° | Stay put                         |  | <b>XB4 BD33</b><br>(ZB4 BZ103 + ZB4 BD3) | 0.095 |
|                                                                                   |                                                                                   |   |   |                     | Spring return to centre          |  | <b>XB4 BD53</b><br>(ZB4 BZ103 + ZB4 BD5) | 0.095 |

### Heads only

|                                                                                     |                                                                                     |  |  |                     |                                    |                                                                                       |                |       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|---------------------|------------------------------------|---------------------------------------------------------------------------------------|----------------|-------|
|  |  |  |  | 2-position<br>90°   | Stay put                           |  | <b>ZB4 BD2</b> | 0.040 |
|                                                                                     |                                                                                     |  |  |                     | Spring return from right to left   |  | <b>ZB4 BD4</b> | 0.045 |
|                                                                                     |                                                                                     |  |  | 3-position<br>± 45° | Stay put                           |  | <b>ZB4 BD3</b> | 0.040 |
|                                                                                     |                                                                                     |  |  |                     | Spring return to centre            |  | <b>ZB4 BD5</b> | 0.040 |
|                                                                                     |                                                                                     |  |  |                     | Spring return from left to centre  |  | <b>ZB4 BD7</b> | 0.040 |
|                                                                                     |                                                                                     |  |  |                     | Spring return from right to centre |  | <b>ZB4 BD8</b> | 0.040 |

### Heads only with other coloured handles

|                                                                                     |                         |                                                                  |
|-------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------|
|  | Standard handle, white  | add suffix <b>01</b> to the reference, example: <b>ZB4 BD201</b> |
|                                                                                     | Standard handle, green  | add suffix <b>03</b> to the reference, example: <b>ZB4 BD203</b> |
|                                                                                     | Standard handle, red    | add suffix <b>04</b> to the reference, example: <b>ZB4 BD204</b> |
|                                                                                     | Standard handle, yellow | add suffix <b>05</b> to the reference, example: <b>ZB4 BD205</b> |
|                                                                                     | Standard handle, blue   | add suffix <b>06</b> to the reference, example: <b>ZB4 BD206</b> |

### Heads with black metal bezel

For heads with standard black handle only. To order, add the suffix 7 to the references selected from above.  
Example: **ZB4 BD2** becomes **ZB4 BD27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

# Control and signalling units Ø 22

Harmony® XB4, metal

Selector switches with long handle: normal and  
padlockable

## Selector switches with long handle (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of operator | Type of contact                                                                   |                                                                                   | Positions |      | Reference | Weight |
|---------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|------|-----------|--------|
|               |                  |  |  | Number    | Type |           |        |
|               |                  | N/O                                                                               | N/C                                                                               |           |      |           | kg     |

### Complete units

|                                                                                   |                    |   |   |                  |                         |                                                                                                                              |       |
|-----------------------------------------------------------------------------------|--------------------|---|---|------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------|-------|
|  | Long handle, black | 1 | — | 2-position 90°   | Stay put                |  <b>XB4 BJ21</b><br>(ZB4 BZ101 + ZB4 BJ2) | 0.096 |
|                                                                                   |                    | 2 | — | 3-position ± 45° | Stay put                |  <b>XB4 BJ33</b><br>(ZB4 BZ103 + ZB4 BJ3) | 0.096 |
|                                                                                   |                    |   |   |                  | Spring return to centre |  <b>XB4 BJ53</b><br>(ZB4 BZ103 + ZB4 BJ5) | 0.096 |

### Heads only

|                                                                                     |                              |  |  |                  |                                    |                                                                                                        |       |
|-------------------------------------------------------------------------------------|------------------------------|--|--|------------------|------------------------------------|--------------------------------------------------------------------------------------------------------|-------|
|    | Long handle, black           |  |  | 2-position 90°   | Stay put                           |  <b>ZB4 BJ2</b>     | 0.040 |
|                                                                                     |                              |  |  |                  | Spring return from right to left   |  <b>ZB4 BJ4</b>     | 0.045 |
|                                                                                     |                              |  |  | 3-position ± 45° | Stay put                           |  <b>ZB4 BJ3</b>     | 0.040 |
|                                                                                     |                              |  |  |                  | Spring return to centre            |  <b>ZB4 BJ5</b>     | 0.040 |
|                                                                                     |                              |  |  |                  | Spring return from left to centre  |  <b>ZB4 BJ7</b>     | 0.040 |
|                                                                                     |                              |  |  |                  | Spring return from right to centre |  <b>ZB4 BJ8</b>    | 0.040 |
|  | Long handle, padlockable (2) |  |  | 2-position 90°   | Stay put                           |  <b>ZB4 BJ291</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ292</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ294</b> | 0.048 |
|                                                                                     |                              |  |  |                  | Spring return from right to left   |  <b>ZB4 BJ491</b> | 0.054 |
|                                                                                     |                              |  |  | 3-position ± 45° | Stay put                           |  <b>ZB4 BJ391</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ392</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ393</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ394</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ395</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ396</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ397</b> | 0.048 |
|                                                                                     |                              |  |  |                  | Spring return to centre            |  <b>ZB4 BJ593</b> | 0.048 |
|                                                                                     |                              |  |  |                  | Spring return from right to centre |  <b>ZB4 BJ891</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ893</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ895</b> | 0.048 |
|                                                                                     |                              |  |  |                  | Spring return from left to centre  |  <b>ZB4 BJ792</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ793</b> | 0.048 |
|                                                                                     |                              |  |  |                  |                                    |  <b>ZB4 BJ796</b> | 0.048 |

### Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: **ZB4 BJ2** becomes **ZB4 BJ27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) The symbol  indicates the padlocking positions.

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

## Control and signalling units Ø 22

Harmony® XB4, metal

Key switches

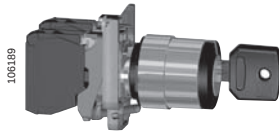
Key n° 455, 421E, 458A, 520E, 3131A

### Key switches (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of operator | Type of contact                                                                   | Positions |      | Reference | Weight |
|---------------|------------------|-----------------------------------------------------------------------------------|-----------|------|-----------|--------|
|               |                  |                                                                                   | Number    | Type |           |        |
|               |                  |  |           |      |           |        |
|               |                  |  |           |      |           |        |
|               |                  | N/O                                                                               |           |      |           | kg     |
|               |                  | N/C                                                                               |           |      |           |        |

### Complete units



XB4 BG33



Key switch with key n° 455

|   |   |                     |                          |                                                                                     |                                          |       |
|---|---|---------------------|--------------------------|-------------------------------------------------------------------------------------|------------------------------------------|-------|
| 1 | — | 2-position<br>90°   | Stay put                 |  | <b>XB4 BG21</b><br>(ZB4 BZ101 + ZB4 BG2) | 0.153 |
|   |   |                     |                          |  | <b>XB4 BG41</b><br>(ZB4 BZ101 + ZB4 BG4) | 0.153 |
|   |   |                     | Spring return<br>to left |  | <b>XB4 BG61</b><br>(ZB4 BZ101 + ZB4 BG6) | 0.153 |
|   |   |                     |                          |  | <b>XB4 BG03</b><br>(ZB4 BZ103 + ZB4 BG0) | 0.153 |
| 2 | — | 3-position<br>± 45° | Stay put                 |  | <b>XB4 BG33</b><br>(ZB4 BZ103 + ZB4 BG3) | 0.153 |
|   |   |                     |                          |  |                                          |       |

### Heads only



Key switch with key n° 455 (3) (4)

|                     |                                       |                                                                                       |                 |       |
|---------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------|-------|
| 2-position<br>90°   | Stay put                              |    | <b>ZB4 BG2</b>  | 0.098 |
|                     |                                       |    | <b>ZB4 BG02</b> | 0.098 |
|                     |                                       |    | <b>ZB4 BG4</b>  | 0.098 |
|                     | Spring return<br>from right to left   |   | <b>ZB4 BG6</b>  | 0.098 |
| 3-position<br>± 45° | Stay put                              |  | <b>ZB4 BG0</b>  | 0.098 |
|                     |                                       |  | <b>ZB4 BG03</b> | 0.098 |
|                     |                                       |  | <b>ZB4 BG04</b> | 0.098 |
|                     |                                       |  | <b>ZB4 BG3</b>  | 0.098 |
|                     |                                       |  | <b>ZB4 BG5</b>  | 0.098 |
|                     |                                       |  | <b>ZB4 BG9</b>  | 0.098 |
|                     |                                       |  | <b>ZB4 BG09</b> | 0.098 |
|                     | Spring return<br>from left to centre  |  | <b>ZB4 BG1</b>  | 0.098 |
|                     |                                       |  | <b>ZB4 BG01</b> | 0.098 |
|                     | Spring return<br>to centre            |  | <b>ZB4 BG7</b>  | 0.098 |
|                     | Spring return<br>from right to centre |  | <b>ZB4 BG8</b>  | 0.098 |
|                     |                                       |  | <b>ZB4 BG05</b> | 0.098 |
|                     |                                       |  | <b>ZB4 BG08</b> | 0.098 |



ZB4 BG0

### Heads with black metal bezel

To order, add a figure 7 to the references selected from above. Example: **ZB4 BG2** becomes **ZB4 BG27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) The symbol  indicates key withdrawal position(s).

(3) Other key numbers:

- key n° 421E: add suffix 12 to the reference.

- key n° 458A: add suffix 10 to the reference.

- key n° 520E: add suffix 14 to the reference.

- key n° 3131A: add suffix 20 to the reference.

Example: For a switch head with key n° 421E, 2-position stay put, with key withdrawal from the left-hand position, the reference becomes: **ZB4 BG212**.

(4) For specific keys with other numbers, please consult your Regional Sales Office.

## Control and signalling units Ø 22

Harmony® XB4, metal

Key switches with key TEC10

Selector switches with knurled knob - Toggle switches

### Key switches with key TEC10

| Shape of head                                                                     | Type of operator          | Positions           |                                    |                                                                                     | Reference     | Weight kg |
|-----------------------------------------------------------------------------------|---------------------------|---------------------|------------------------------------|-------------------------------------------------------------------------------------|---------------|-----------|
|                                                                                   |                           | Number              | Type                               |                                                                                     |               |           |
| Heads only                                                                        |                           |                     |                                    |                                                                                     |               |           |
|  | Key switch with key TEC10 | 2-position<br>90°   | Stay put                           |  | ZB4 BG2TEC10  | 0.160     |
|                                                                                   |                           |                     |                                    |  | ZB4 BG4TEC10  | 0.160     |
|                                                                                   |                           |                     | Spring return from right to left   |  | ZB4 BG6TEC10  | 0.170     |
|                                                                                   |                           | 3-position<br>± 45° | Stay put                           |  | ZB4 BG0TEC10  | 0.160     |
|                                                                                   |                           |                     |                                    |  | ZB4 BG3TEC10  | 0.160     |
|                                                                                   |                           |                     |                                    |  | ZB4 BG5TEC10  | 0.160     |
|                                                                                   |                           |                     |                                    |  | ZB4 BG9TEC10  | 0.160     |
|                                                                                   |                           |                     | Spring return to centre            |  | ZB4 BG7TEC10  | 0.170     |
|                                                                                   |                           |                     | Spring return from right to centre |  | ZB4 BG05TEC10 | 0.170     |
|                                                                                   |                           |                     |                                    |                                                                                     |               |           |

### Selector switches with knurled knob (1)

| Selector switches with knurled knob (*)                                             |                    |                     |                                    |                                                                                       |                 |       |
|-------------------------------------------------------------------------------------|--------------------|---------------------|------------------------------------|---------------------------------------------------------------------------------------|-----------------|-------|
| Shape of head                                                                       | Type of operator   | Positions           |                                    | Reference                                                                             | Weight kg       |       |
|                                                                                     |                    | Number              | Type                               |                                                                                       |                 |       |
| Heads only                                                                          |                    |                     |                                    |                                                                                       |                 |       |
|  | Black knurled knob | 2-position<br>90°   | Stay put                           |  | <b>ZB4 BD29</b> | 0.043 |
|                                                                                     |                    |                     | Spring return from right to left   |  | <b>ZB4 BD49</b> | 0.050 |
|                                                                                     |                    | 3-position<br>± 45° | Stay put                           |  | <b>ZB4 BD39</b> | 0.040 |
|                                                                                     |                    |                     | Spring return to centre            |  | <b>ZB4 BD59</b> | 0.040 |
|                                                                                     |                    |                     | Spring return from left to centre  |  | <b>ZB4 BD79</b> | 0.040 |
|                                                                                     |                    |                     | Spring return from right to centre |  | <b>ZB4 BD89</b> | 0.040 |

### Toggle switches (1)

| Shape of head                                                                       | Type of operator | Positions      |               | Reference                                                                            | Weight kg       |       |
|-------------------------------------------------------------------------------------|------------------|----------------|---------------|--------------------------------------------------------------------------------------|-----------------|-------|
|                                                                                     |                  | Number         | Type          |                                                                                      |                 |       |
| Heads only                                                                          |                  |                |               |                                                                                      |                 |       |
|  | Black lever      | 2-position 90° | Stay put      |  | <b>ZB4 BD28</b> | 0.026 |
|                                                                                     |                  |                | Spring return |  | <b>ZB4 BD48</b> | 0.026 |

### Heads with black metal bezel

To order, add a figure 7 to the references selected from above.  
Example: **ZB4 BD29** becomes **ZB4 BD297**.

For the references with key TEC10, add the 7 before TEC10.  
Example: **ZB4 BG2TEC10** becomes **ZB4 BG27TEC10**.

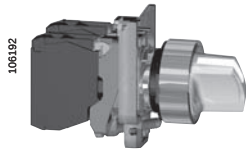
(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

Assembly of other products using:  
combined sub-assemblies: see page 48  
accessories: see page 58

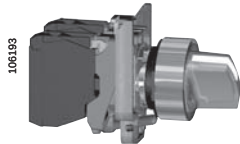
## Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated selector switches with standard handle,  
with integral LED



XB4 BK123B5



XB4 BK134B5

| Illuminated selector switches with standard handle, with integral LED <sup>(1)</sup> |                  |                 |     |                                     |                           |                  |                                                 |        |
|--------------------------------------------------------------------------------------|------------------|-----------------|-----|-------------------------------------|---------------------------|------------------|-------------------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)       |                  |                 |     |                                     |                           |                  |                                                 |        |
| Shape of head                                                                        | Type of operator | Type of contact |     | Positions Number Type               | Supply voltage            | Colour of handle | Reference                                       | Weight |
|                                                                                      |                  |                 |     |                                     | V                         |                  |                                                 | kg     |
|                                                                                      |                  | N/O             | N/C |                                     |                           |                  |                                                 |        |
| Complete units                                                                       |                  |                 |     |                                     |                           |                  |                                                 |        |
|                                                                                      | Standard handle  | 1               | 1   | 2-position<br>Stay put<br><br>90°   | ~ 24<br>(50/60 Hz)        | Green            | <b>XB4 BK123B5</b><br>(ZB4 BW0B35 + ZB4 BK1233) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Red              | <b>XB4 BK124B5</b><br>(ZB4 BW0B45 + ZB4 BK1243) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Orange           | <b>XB4 BK125B5</b><br>(ZB4 BW0B55 + ZB4 BK1253) | 0.101  |
|                                                                                      |                  |                 |     |                                     | ~ 110...120<br>(50/60 Hz) | Green            | <b>XB4 BK123G5</b><br>(ZB4 BW0G35 + ZB4 BK1233) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Red              | <b>XB4 BK124G5</b><br>(ZB4 BW0G45 + ZB4 BK1243) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Orange           | <b>XB4 BK125G5</b><br>(ZB4 BW0G55 + ZB4 BK1253) | 0.101  |
|                                                                                      |                  |                 |     |                                     | ~ 230...240<br>(50/60 Hz) | Green            | <b>XB4 BK123M5</b><br>(ZB4 BW0M35 + ZB4 BK1233) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Red              | <b>XB4 BK124M5</b><br>(ZB4 BW0M45 + ZB4 BK1243) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Orange           | <b>XB4 BK125M5</b><br>(ZB4 BW0M55 + ZB4 BK1253) | 0.101  |
|                                                                                      |                  | 1               | 1   | 3-position<br>Stay put<br><br>± 45° | ~ 24<br>(50/60 Hz)        | Green            | <b>XB4 BK133B5</b><br>(ZB4 BW0B35 + ZB4 BK1333) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Red              | <b>XB4 BK134B5</b><br>(ZB4 BW0B45 + ZB4 BK1343) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Orange           | <b>XB4 BK135B5</b><br>(ZB4 BW0B55 + ZB4 BK1353) | 0.101  |
|                                                                                      |                  |                 |     |                                     | ~ 110...120<br>(50/60 Hz) | Green            | <b>XB4 BK133G5</b><br>(ZB4 BW0G35 + ZB4 BK1333) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Red              | <b>XB4 BK134G5</b><br>(ZB4 BW0G45 + ZB4 BK1343) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Orange           | <b>XB4 BK135G5</b><br>(ZB4 BW0G55 + ZB4 BK1353) | 0.101  |
|                                                                                      |                  |                 |     |                                     | ~ 230...240<br>(50/60 Hz) | Green            | <b>XB4 BK133M5</b><br>(ZB4 BW0M35 + ZB4 BK1333) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Red              | <b>XB4 BK134M5</b><br>(ZB4 BW0M45 + ZB4 BK1343) | 0.101  |
|                                                                                      |                  |                 |     |                                     |                           | Orange           | <b>XB4 BK135M5</b><br>(ZB4 BW0M55 + ZB4 BK1353) | 0.101  |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

## Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated selector switches with standard handle,  
with integral LED

### Illuminated selector switches with standard handle, with integral LED (continued) (1)

| Shape of head                                                                                    | Type of operator | Positions           |                                          |                                                                                     | Colour of handle | Reference  | Weight kg |
|--------------------------------------------------------------------------------------------------|------------------|---------------------|------------------------------------------|-------------------------------------------------------------------------------------|------------------|------------|-----------|
|                                                                                                  |                  | Number              | Type                                     |                                                                                     |                  |            |           |
| <b>Heads only (2)</b>                                                                            |                  |                     |                                          |                                                                                     |                  |            |           |
|                 | Standard handle  | 2-position<br>90°   | Stay put                                 |    | White            | ZB4 BK1213 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Green            | ZB4 BK1233 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Red              | ZB4 BK1243 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Orange           | ZB4 BK1253 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Blue             | ZB4 BK1263 | 0.036     |
|                                                                                                  |                  |                     | Spring return<br>from right to<br>left   |    | White            | ZB4 BK1413 | 0.037     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Green            | ZB4 BK1433 | 0.037     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Red              | ZB4 BK1443 | 0.037     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Orange           | ZB4 BK1453 | 0.037     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Blue             | ZB4 BK1463 | 0.037     |
| <br>ZB4 BK1343 |                  | 3-position<br>± 45° | Stay put                                 |    | White            | ZB4 BK1313 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Green            | ZB4 BK1333 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Red              | ZB4 BK1343 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Orange           | ZB4 BK1353 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Blue             | ZB4 BK1363 | 0.036     |
|                                                                                                  |                  |                     | Spring return<br>to centre               |  | White            | ZB4 BK1513 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Green            | ZB4 BK1533 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Red              | ZB4 BK1543 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Orange           | ZB4 BK1553 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Blue             | ZB4 BK1563 | 0.036     |
|                                                                                                  |                  |                     | Spring return<br>from right to<br>centre |  | White            | ZB4 BK1813 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Green            | ZB4 BK1833 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Red              | ZB4 BK1843 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Orange           | ZB4 BK1853 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Blue             | ZB4 BK1863 | 0.036     |
|                                                                                                  |                  |                     | Spring return<br>from left to<br>centre  |  | White            | ZB4 BK1713 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Green            | ZB4 BK1733 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Red              | ZB4 BK1743 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Orange           | ZB4 BK1753 | 0.036     |
|                                                                                                  |                  |                     |                                          |                                                                                     | Blue             | ZB4 BK1763 | 0.036     |

### Heads with black metal bezel

To order, add a figure 7 to the references selected from above.  
Example: ZB4 BK1213 becomes ZB4 BK12137.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:  
body/light assemblies: see page 52  
accessories: see pages 56 and 60

## Control and signalling units Ø 22

Harmony® XB4, metal  
Pilot lights with integral LED

### Pilot lights with integral LED

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                                             | Supply voltage<br>V       | Colour | Reference                                 | Weight<br>kg |
|-----------------------------------------------------------------------------------------------------------|---------------------------|--------|-------------------------------------------|--------------|
| <b>Complete units</b>                                                                                     |                           |        |                                           |              |
| ■ With plain lens                                                                                         |                           |        |                                           |              |
| <br><b>Protected LED</b> | ~ 24<br>(50/60 Hz)        | White  | <b>XB4 BVB1</b><br>(ZB4 BVB1 + ZB4 BV013) | 0.080        |
|                                                                                                           |                           | Green  | <b>XB4 BVB3</b><br>(ZB4 BVB3 + ZB4 BV033) | 0.080        |
|                                                                                                           |                           | Red    | <b>XB4 BVB4</b><br>(ZB4 BVB4 + ZB4 BV043) | 0.080        |
|                                                                                                           |                           | Orange | <b>XB4 BVB5</b><br>(ZB4 BVB5 + ZB4 BV053) | 0.080        |
|                                                                                                           |                           | Blue   | <b>XB4 BVB6</b><br>(ZB4 BVB6 + ZB4 BV063) | 0.080        |
|                                                                                                           |                           |        |                                           |              |
|                                                                                                           | ~ 110...120<br>(50/60 Hz) | White  | <b>XB4 BVG1</b><br>(ZB4 BVG1 + ZB4 BV013) | 0.080        |
|                                                                                                           |                           | Green  | <b>XB4 BVG3</b><br>(ZB4 BVG3 + ZB4 BV033) | 0.080        |
|                                                                                                           |                           | Red    | <b>XB4 BVG4</b><br>(ZB4 BVG4 + ZB4 BV043) | 0.080        |
|                                                                                                           |                           | Orange | <b>XB4 BVG5</b><br>(ZB4 BVG5 + ZB4 BV053) | 0.080        |
|                                                                                                           |                           | Blue   | <b>XB4 BVG6</b><br>(ZB4 BVG6 + ZB4 BV063) | 0.080        |
|                                                                                                           |                           |        |                                           |              |
|                                                                                                           | ~ 230...240<br>(50/60 Hz) | White  | <b>XB4 BVM1</b><br>(ZB4 BVM1 + ZB4 BV013) | 0.080        |
|                                                                                                           |                           | Green  | <b>XB4 BVM3</b><br>(ZB4 BVM3 + ZB4 BV033) | 0.080        |
|                                                                                                           |                           | Red    | <b>XB4 BVM4</b><br>(ZB4 BVM4 + ZB4 BV043) | 0.080        |
|                                                                                                           |                           | Orange | <b>XB4 BVM5</b><br>(ZB4 BVM5 + ZB4 BV053) | 0.080        |
|                                                                                                           |                           | Blue   | <b>XB4 BVM6</b><br>(ZB4 BVM6 + ZB4 BV063) | 0.080        |
|                                                                                                           |                           |        |                                           |              |

### Heads only (1)

| Shape of head                                                                                               | For use with body comprising light source type | Colour of lens    | Reference         | Weight kg |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------|-------------------|-----------|
| ■ With plain lens                                                                                           |                                                |                   |                   |           |
| <br><b>Protected LED</b> | Integral LED only                              | White             | <b>ZB4 BV013</b>  | 0.026     |
|                                                                                                             |                                                | Green             | <b>ZB4 BV033</b>  | 0.026     |
|                                                                                                             |                                                | Red               | <b>ZB4 BV043</b>  | 0.026     |
|                                                                                                             |                                                | Orange            | <b>ZB4 BV053</b>  | 0.026     |
|                                                                                                             |                                                | Blue              | <b>ZB4 BV063</b>  | 0.026     |
|                                                                                                             |                                                | 5 colours (2) (3) | <b>ZB4 BV003</b>  | 0.026     |
| ■ With plain lens, for insertion of legend (3)                                                              |                                                |                   |                   |           |
| <br><b>Protected LED</b> | Integral LED only                              | White             | <b>ZB4 BV013E</b> | 0.026     |
|                                                                                                             |                                                | Green             | <b>ZB4 BV033E</b> | 0.026     |
|                                                                                                             |                                                | Red               | <b>ZB4 BV043E</b> | 0.026     |
|                                                                                                             |                                                | Orange            | <b>ZB4 BV053E</b> | 0.026     |
|                                                                                                             |                                                | Blue              | <b>ZB4 BV063E</b> | 0.026     |
|                                                                                                             |                                                |                   |                   |           |
| ■ With grooved lens (4)                                                                                     |                                                |                   |                   |           |
| <br><b>Protected LED</b> | Integral LED only                              | White             | <b>ZB4 BV013S</b> | 0.026     |
|                                                                                                             |                                                | Green             | <b>ZB4 BV033S</b> | 0.026     |
|                                                                                                             |                                                | Red               | <b>ZB4 BV043S</b> | 0.026     |
|                                                                                                             |                                                | Orange            | <b>ZB4 BV053S</b> | 0.026     |
|                                                                                                             |                                                | Blue              | <b>ZB4 BV063S</b> | 0.026     |
|                                                                                                             |                                                |                   |                   |           |

(1) Only for use with bodies comprising a light source with integral LED.

(2) Head supplied with 5 different coloured lenses (white, green, red, orange, blue) not fitted, for insertion of legend.

(3) For legend ordering information: see page 58.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
body/light assemblies: see page 53  
accessories: see pages 56 and 60

# Control and signalling units Ø 22

## Harmony® XB4, metal

### Pilot lights with integral LED and with BA 9s base fitting

#### Pilot lights with integral LED and transformer (1.2 VA, 24 V secondary)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                     | Supply voltage<br>V | Colour | Reference (1)                                                                                        | Weight<br>kg |
|-----------------------------------------------------------------------------------|---------------------|--------|------------------------------------------------------------------------------------------------------|--------------|
| Complete units - With plain lens                                                  |                     |        |                                                                                                      |              |
|  | ~ 400 - 50 Hz (1)   | White  | <b>XB4 BV5B1</b>  | 0.172        |
|                                                                                   |                     | Green  | <b>XB4 BV5B3</b>  | 0.172        |
|                                                                                   |                     | Red    | <b>XB4 BV5B4</b>  | 0.172        |
|                                                                                   |                     | Orange | <b>XB4 BV5B5</b>  | 0.172        |
|                                                                                   |                     | Blue   | <b>XB4 BV5B6</b>  | 0.172        |

080702



XB4 BV5B1

#### Pilot lights with BA 9s base fitting, with plain or grooved lens

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                     | Supply voltage<br>V | Colour | Reference                               | Weight<br>kg |
|-----------------------------------------------------------------------------------|---------------------|--------|-----------------------------------------|--------------|
| Complete units - With plain lens                                                  |                     |        |                                         |              |
| ■ Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W max (bulb not included)         |                     |        |                                         |              |
|  | ≤ 250               | White  | <b>XB4 BV61</b><br>(ZB4 BV6 + ZB4 BV01) | 0.075        |
|                                                                                   |                     | Green  | <b>XB4 BV63</b><br>(ZB4 BV6 + ZB4 BV03) | 0.075        |
|                                                                                   |                     | Red    | <b>XB4 BV64</b><br>(ZB4 BV6 + ZB4 BV04) | 0.075        |
|                                                                                   |                     | Orange | <b>XB4 BV65</b><br>(ZB4 BV6 + ZB4 BV05) | 0.075        |

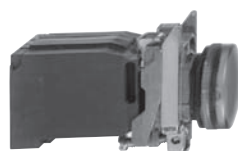
814114



XB4 BV64

|                                                                                            |                                      |        |                                         |       |
|--------------------------------------------------------------------------------------------|--------------------------------------|--------|-----------------------------------------|-------|
| ■ Via integral transformer, 1.2 VA, 6 V secondary, with BA 9s incandescent bulb (included) |                                      |        |                                         |       |
|         | ~ 110...120 - 50/60 Hz               | White  | <b>XB4 BV31</b><br>(ZB4 BV3 + ZB4 BV01) | 0.152 |
|                                                                                            |                                      | Green  | <b>XB4 BV33</b><br>(ZB4 BV3 + ZB4 BV03) | 0.152 |
|                                                                                            |                                      | Red    | <b>XB4 BV34</b><br>(ZB4 BV3 + ZB4 BV04) | 0.152 |
|                                                                                            |                                      | Orange | <b>XB4 BV35</b><br>(ZB4 BV3 + ZB4 BV05) | 0.152 |
|                                                                                            | ~ 230 - 50 Hz<br>~ 220...240 - 60 Hz | White  | <b>XB4 BV41</b><br>(ZB4 BV4 + ZB4 BV01) | 0.152 |
|                                                                                            |                                      | Green  | <b>XB4 BV43</b><br>(ZB4 BV4 + ZB4 BV03) | 0.152 |
|                                                                                            |                                      | Red    | <b>XB4 BV44</b><br>(ZB4 BV4 + ZB4 BV04) | 0.152 |
|                                                                                            |                                      | Orange | <b>XB4 BV45</b><br>(ZB4 BV4 + ZB4 BV05) | 0.152 |

814117



XB4 BV33

#### Heads only (2)

| Shape of head                                                                       | For use with body comprising light source type | Colour of lens | Reference       | Weight<br>kg |
|-------------------------------------------------------------------------------------|------------------------------------------------|----------------|-----------------|--------------|
| ■ With plain lens                                                                   |                                                |                |                 |              |
|  | With BA 9s base fitting                        | White          | <b>ZB4 BV01</b> | 0.027        |
|                                                                                     |                                                | Green          | <b>ZB4 BV03</b> | 0.027        |
|                                                                                     |                                                | Red            | <b>ZB4 BV04</b> | 0.027        |
|                                                                                     |                                                | Orange         | <b>ZB4 BV05</b> | 0.027        |
|                                                                                     |                                                | Blue           | <b>ZB4 BV06</b> | 0.027        |
|                                                                                     |                                                | Clear          | <b>ZB4 BV07</b> | 0.027        |

814213



ZB4 BV04

|                                                                                     |                         |        |                  |       |
|-------------------------------------------------------------------------------------|-------------------------|--------|------------------|-------|
| ■ With grooved lens (3)                                                             |                         |        |                  |       |
|  | With BA 9s base fitting | White  | <b>ZB4 BV01S</b> | 0.027 |
|                                                                                     |                         | Green  | <b>ZB4 BV03S</b> | 0.027 |
|                                                                                     |                         | Red    | <b>ZB4 BV04S</b> | 0.027 |
|                                                                                     |                         | Orange | <b>ZB4 BV05S</b> | 0.027 |
|                                                                                     |                         | Blue   | <b>ZB4 BV06S</b> | 0.027 |
|                                                                                     |                         | Clear  | <b>ZB4 BV07S</b> | 0.027 |

523768



ZB4 BV06S

(1) For order ~ 440...460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8». Example: XB4 BV5B1 becomes XB4 BV8B1. To order ~ 550...600 V - 60 Hz blocks, please replace «5» by «9». Example: XB4 BV5B1 becomes XB4 BV9B1.

(2) Only for use with bodies comprising a light source with BA 9s base fitting (incandescent, neon or LED).

(3) For use in bright ambient light conditions (outdoors in sunlight, for example).

 New

General :  
page 6

Characteristics :  
page 14

Dimensions :  
page 68

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

## Control and signalling units Ø 22

Harmony® XB4, metal

Specific functions

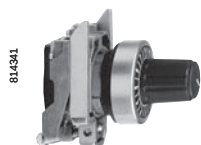
Pushbuttons for manual overload reset, hour counters, buzzers, fuse carrier



XB4 BA8●1

### Manual overload reset pushbuttons

| Shape of head                                                                     | Travel mm | Actuation distance mm | Colour | Reference | Weight kg |
|-----------------------------------------------------------------------------------|-----------|-----------------------|--------|-----------|-----------|
|  | 10        | 6...16                | Black  | XB4 BA821 | 0.037     |
|                                                                                   |           |                       | Red    | XB4 BA841 | 0.037     |
|                                                                                   |           |                       | Blue   | XB4 BA861 | 0.037     |
|                                                                                   |           | 16...26               | Black  | XB4 BA822 | 0.038     |
|                                                                                   |           |                       | Red    | XB4 BA842 | 0.038     |
|                                                                                   |           |                       | Blue   | XB4 BA862 | 0.038     |
|                                                                                   | 14        | 30...130              | Black  | XB4 BA921 | 0.058     |
|                                                                                   |           |                       | Red    | XB4 BA941 | 0.058     |
|                                                                                   |           |                       | Blue   | XB4 BA961 | 0.058     |
|                                                                                   |           | 130...257             | Black  | XB4 BA922 | 0.071     |
|                                                                                   |           |                       | Red    | XB4 BA942 | 0.071     |
|                                                                                   |           |                       | Blue   | XB4 BA962 | 0.071     |



ZB4 BD912

### Heads + mounting base for potentiometer (1)

| Shape of head                                                                     | Description                                     | For use with    | Reference | Weight kg |
|-----------------------------------------------------------------------------------|-------------------------------------------------|-----------------|-----------|-----------|
|  | For potentiometer with shaft length 45 to 50 mm | Ø 6 mm shaft    | ZB4 BD912 | 0.080     |
|                                                                                   |                                                 | Ø 6.35 mm shaft | ZB4 BD922 | 0.080     |



XB5 DS●

### Hour counters

| Characteristics       | Supply voltage V     | Reference | Weight kg |
|-----------------------|----------------------|-----------|-----------|
| Indication 0...9999.9 | ~ 12...24 - 50/60 Hz | XB5 DSB   | 0.045     |
|                       | ~ 120 - 60 Hz        | XB5 DSG   | 0.045     |
|                       | ~ 230...240 - 50 Hz  | XB5 DSM   | 0.045     |



XB5 KS●

### Annunciators (IP 40 NEMA 1)

|                                                                                                  |                     |         |       |
|--------------------------------------------------------------------------------------------------|---------------------|---------|-------|
| 85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 74) | ~ 24 - 50/60 Hz     | XB5 KSB | 0.035 |
|                                                                                                  | ~ 120 - 50/60 Hz    | XB5 KSG | 0.035 |
|                                                                                                  | ~ 230...240 - 50 Hz | XB5 KSM | 0.035 |

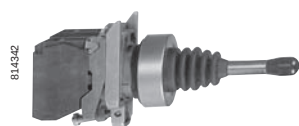


XB5 DT1S

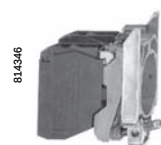
### Fuse carrier

| Description  | For use with                 | Reference | Weight kg |
|--------------|------------------------------|-----------|-----------|
| Fuse carrier | 5 x 20 mm fuse 6.3 A - 250 V | XB5 DT1S  | 0.022     |

(1) Potentiometer not included.



XD4 PA12



ZD4 PA103



ZD4 PA203



ZD4 PA12



ZB4 BB2

**Joystick controllers** (with 54 mm long operating shaft) (1)**Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Description              | Operation                              | Spring return to zero position | Reference       | Weight kg |
|--------------------------|----------------------------------------|--------------------------------|-----------------|-----------|
| <b>Complete products</b> |                                        |                                |                 |           |
| 2-direction              | 1 notch<br>1 N/O contact per direction | Without                        | <b>XD4 PA12</b> | 0.116     |
|                          |                                        | With                           | <b>XD4 PA22</b> | 0.116     |
| 4-direction              | 1 notch<br>1 N/O contact per direction | Without                        | <b>XD4 PA14</b> | 0.133     |
|                          |                                        | With                           | <b>XD4 PA24</b> | 0.133     |

**Sub-assemblies for joystick controllers**

| Sub-assemblies for joystick controllers       |                                             |                                  | Reference | Weight<br>kg |
|-----------------------------------------------|---------------------------------------------|----------------------------------|-----------|--------------|
| Description                                   | Functions                                   |                                  |           |              |
| Complete body/contact assemblies              | 2-direction                                 |                                  | ZD4 PA103 | 0.049        |
|                                               | 4-direction                                 |                                  | ZD4 PA203 | 0.058        |
| Complete head assemblies with operating shaft | 2-direction, stay put                       |                                  | ZD4 PA12  | 0.022        |
|                                               | 2-direction, spring return to zero position |                                  | ZD4 PA22  | 0.022        |
|                                               | 4-direction, stay put                       |                                  | ZD4 PA14  | 0.022        |
|                                               | 4-direction, spring return to zero position |                                  | ZD4 PA24  | 0.022        |
| Legends 30 x 48 mm for engraving              | 2-direction                                 | Black one side<br>Red reverse    | ZBG 2201  | 0.001        |
|                                               |                                             | White one side<br>Yellow reverse | ZBG 2401  | 0.001        |
| Legends 48 x 48 mm for engraving              | 4-direction                                 | Black one side<br>Red reverse    | ZBG 4201  | 0.002        |
|                                               |                                             | White one side<br>Yellow reverse | ZBG 4401  | 0.002        |

**Wobblestick heads**

| Shape of head | For use with                   | Colour | Reference      | Weight kg |
|---------------|--------------------------------|--------|----------------|-----------|
|               | Omnidirectional, spring return | Black  | <b>ZB4 BB2</b> | 0.058     |
|               |                                | Red    | <b>ZB4 BB4</b> | 0.058     |

(1) Must not be used with standard contact blocks ZBE 10● (single) or ZBE 20● (double).

**Other versions**Joystick controllers and complete body/contact assemblies for joystick controllers with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

To combine with heads, see pages 20 to 42



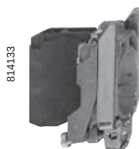
ZB4 BZ009



ZBE 101



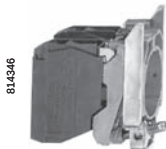
ZBE 203



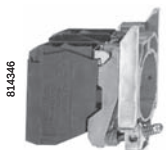
ZB4 BZ101



ZBE 201



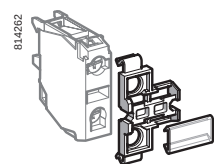
ZB4 BZ106



ZB4 BZ107



ZBE 501



ZBZ 001

**Body/fixing collar**

| For use with                        | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 10              | ZB4 BZ009      | 0.038     |

**Contact functions (1)****Screw clamp terminal connections (Schneider Electric anti-retightening system)****Contacts for standard applications**

| Description    | Type of contact                |  |  | Sold in lots of | Unit reference | Weight kg |
|----------------|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Contact blocks | Single                         | 1                                                                                   | —                                                                                   | 5               | ZBE 101        | 0.011     |
|                |                                | —                                                                                   | 1                                                                                   | 5               | ZBE 102        | 0.011     |
|                | Double                         | 2                                                                                   | —                                                                                   | 5               | ZBE 203        | 0.020     |
|                |                                | —                                                                                   | 2                                                                                   | 5               | ZBE 204        | 0.020     |
|                | Single with body/fixing collar | 1                                                                                   | 1                                                                                   | 5               | ZBE 205        | 0.020     |
|                |                                | 1                                                                                   | —                                                                                   | 1               | ZB4 BZ101      | 0.053     |
|                |                                | —                                                                                   | 1                                                                                   | 1               | ZB4 BZ102      | 0.053     |
|                |                                | 2                                                                                   | —                                                                                   | 1               | ZB4 BZ103      | 0.062     |
|                |                                | —                                                                                   | 2                                                                                   | 1               | ZB4 BZ104      | 0.062     |
|                |                                | 1                                                                                   | 1                                                                                   | 1               | ZB4 BZ105      | 0.062     |
|                |                                | 1                                                                                   | 2                                                                                   | 1               | ZB4 BZ141      | 0.072     |

**Contacts for specific applications**

| Application          | Type of contact | Description                                              |  |  | Sold in lots of | Unit reference                                                                                | Weight kg |
|----------------------|-----------------|----------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------|-----------|
| Low power switching  | Single          | Standard                                                 | 1                                                                                    | —                                                                                    | 5               | ZBE 1016                                                                                      | 0.012     |
|                      |                 |                                                          | —                                                                                    | 1                                                                                    | 5               | ZBE 1026                                                                                      | 0.012     |
|                      |                 | Dusty environment (2)<br>(IP5X, 50 µm dust)              | 1                                                                                    | —                                                                                    | 5               | ZBE 1016P                                                                                     | 0.012     |
|                      |                 |                                                          | —                                                                                    | 1                                                                                    | 5               | ZBE 1026P                                                                                     | 0.012     |
| Staggered contacts   | Single          | Early make<br>N/O                                        | 1                                                                                    | —                                                                                    | 5               | ZBE 201                                                                                       | 0.011     |
|                      |                 | Late break<br>N/C                                        | —                                                                                    | 1                                                                                    | 5               | ZBE 202                                                                                       | 0.011     |
|                      |                 | Single with body/fixing collar<br>Overlapping<br>N/O+N/C | 1                                                                                    | 1                                                                                    | 5               | ZB4 BZ106                                                                                     | 0.062     |
|                      |                 | Staggered<br>N/O+N/O                                     | 2                                                                                    | —                                                                                    | 5               | ZB4 BZ107                                                                                     | 0.062     |
|                      |                 |                                                          |                                                                                      |                                                                                      |                 |                                                                                               |           |
| High power switching | Single          | Standard (3)                                             | 1                                                                                    | —                                                                                    | 1               | ZBE 501  | 0,020     |
|                      |                 |                                                          | —                                                                                    | 1                                                                                    | 1               | ZBE 502  | 0,020     |
|                      |                 |                                                          | 2                                                                                    | —                                                                                    | 1               | ZBE 503  | 0,032     |
|                      |                 |                                                          | —                                                                                    | 2                                                                                    | 1               | ZBE 504  | 0,032     |
|                      |                 |                                                          | 1                                                                                    | 1                                                                                    | 1               | ZBE 505  | 0,032     |

**Clip-on legend holder, sheet of blank legends and labelling software**

| Description                                                                                                                                      | Sold in lots of | Unit reference | Weight kg |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Clip-on legend-holder for electrical blocks with screw clamp terminal connections (4). For identification of an XB4 B control or signalling unit | 10              | ZBZ 001        | 0.001     |
| Sheet of 50 blank legends for legend holder ZBZ 001                                                                                              | 10              | ZBY 001        | 0.023     |
| «SIS Label» labelling software for legend design (ZBY 001 legends)<br>(for design of legends in English, French, German, Italian, Spanish)       | 1               | XBZ 2U         | 0.100     |

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 18.

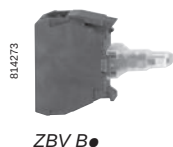
(2) It is not possible to fit an additional contact block on the back of these contact blocks.

(3) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.

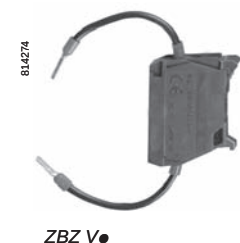
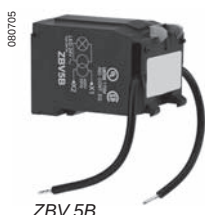
(4) This legend holder is not compatible with high power switching contacts.

 NewGeneral :  
page 6Characteristics :  
page 14Dimensions :  
page 68

To combine with heads, see page 24



| Light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system) |                           |                        |                 |                |           |
|--------------------------------------------------------------------------------------------------|---------------------------|------------------------|-----------------|----------------|-----------|
| Description                                                                                      | Supply voltage V          | Colour of light source | Sold in lots of | Unit reference | Weight kg |
| Integral LED<br>(to combine with heads for integral LED)<br><b>Protected LED</b>                 | ~ 12<br>(50/60 Hz)        | White                  | 5               | ZBV J1         | 0.017     |
|                                                                                                  |                           | Green                  | 5               | ZBV J3         | 0.017     |
|                                                                                                  |                           | Red                    | 5               | ZBV J4         | 0.017     |
|                                                                                                  |                           | Orange                 | 5               | ZBV J5         | 0.017     |
|                                                                                                  |                           | Blue                   | 5               | ZBV J6         | 0.017     |
|                                                                                                  | ~ 24<br>(50/60 Hz)        | White                  | 5               | ZBV B1         | 0.017     |
|                                                                                                  |                           | Green                  | 5               | ZBV B3         | 0.017     |
|                                                                                                  |                           | Red                    | 5               | ZBV B4         | 0.017     |
|                                                                                                  |                           | Orange                 | 5               | ZBV B5         | 0.017     |
|                                                                                                  |                           | Blue                   | 5               | ZBV B6         | 0.017     |
|                                                                                                  | ~ 24...120<br>(50/60 Hz)  | White                  | 5               | ZBV BG1        | 0.017     |
|                                                                                                  |                           | Green                  | 5               | ZBV BG3        | 0.017     |
|                                                                                                  |                           | Red                    | 5               | ZBV BG4        | 0.017     |
|                                                                                                  |                           | Orange                 | 5               | ZBV BG5        | 0.017     |
|                                                                                                  |                           | Blue                   | 5               | ZBV BG6        | 0.017     |
|                                                                                                  | ~ 110...120<br>(50/60 Hz) | White                  | 5               | ZBV G1         | 0.017     |
|                                                                                                  |                           | Green                  | 5               | ZBV G3         | 0.017     |
|                                                                                                  |                           | Red                    | 5               | ZBV G4         | 0.017     |
|                                                                                                  |                           | Orange                 | 5               | ZBV G5         | 0.017     |
|                                                                                                  |                           | Blue                   | 5               | ZBV G6         | 0.017     |
|                                                                                                  | ~ 230...240<br>(50/60 Hz) | White                  | 5               | ZBV M1         | 0.017     |
|                                                                                                  |                           | Green                  | 5               | ZBV M3         | 0.017     |
|                                                                                                  |                           | Red                    | 5               | ZBV M4         | 0.017     |
|                                                                                                  |                           | Orange                 | 5               | ZBV M5         | 0.017     |
|                                                                                                  |                           | Blue                   | 5               | ZBV M6         | 0.017     |



| Flashing light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system) |                           |                        |                 |                |           |
|-----------------------------------------------------------------------------------------------------------|---------------------------|------------------------|-----------------|----------------|-----------|
| Description                                                                                               | Supply voltage V          | Colour of light source | Sold in lots of | Unit reference | Weight kg |
| Integral LED<br>(to combine with heads for integral LED)<br><b>Protected LED</b>                          | ~ 24<br>(50/60 Hz)        | White                  | 5               | ZBV 18B1       | 0.017     |
|                                                                                                           |                           | Green                  | 5               | ZBV 18B3       | 0.017     |
|                                                                                                           |                           | Red                    | 5               | ZBV 18B4       | 0.017     |
|                                                                                                           |                           | Orange                 | 5               | ZBV 18B5       | 0.017     |
|                                                                                                           |                           | Blue                   | 5               | ZBV 18B6       | 0.017     |
|                                                                                                           | ~ 110...120<br>(50/60 Hz) | White                  | 5               | ZBV 18G1       | 0.017     |
|                                                                                                           |                           | Green                  | 5               | ZBV 18G3       | 0.017     |
|                                                                                                           |                           | Red                    | 5               | ZBV 18G4       | 0.017     |
|                                                                                                           |                           | Orange                 | 5               | ZBV 18G5       | 0.017     |
|                                                                                                           |                           | Blue                   | 5               | ZBV 18G6       | 0.017     |
|                                                                                                           | ~ 230...240<br>(50/60 Hz) | White                  | 5               | ZBV 18M1       | 0.017     |
|                                                                                                           |                           | Green                  | 5               | ZBV 18M3       | 0.017     |
|                                                                                                           |                           | Red                    | 5               | ZBV 18M4       | 0.017     |
|                                                                                                           |                           | Orange                 | 5               | ZBV 18M5       | 0.017     |
|                                                                                                           |                           | Blue                   | 5               | ZBV 18M6       | 0.017     |

| Transformer blocks for 24 V light blocks |                  |                            |            |           |
|------------------------------------------|------------------|----------------------------|------------|-----------|
| For use with                             | Supply voltage V | Description                | Référence  | Weight kg |
| Light blocks with integral LED           | ~ 400 V - 50 Hz  | Transformer 400 V - 24 V ~ | ZBV 5B (1) | 0.090     |

| Blocks for "test light" function |                  |                                      |              |           |
|----------------------------------|------------------|--------------------------------------|--------------|-----------|
| Light blocks                     | Supply voltage V | Description                          | Reference    | Weight kg |
|                                  | ~ 12 and 24      | Single module, 1 connecting wire     | ZBZ G156 (2) | 0.010     |
| Light blocks with integral LED   | ~ 24...120       |                                      |              |           |
|                                  | ~ 48...230       | Double module, with connecting wires | ZBZ M156 (3) | 0.010     |

| LED suppressors                              |                  |                     |           |           |
|----------------------------------------------|------------------|---------------------|-----------|-----------|
| For use with                                 | Supply voltage V | Level of protection | Reference | Weight kg |
| Light blocks with integral LED               | ~ 120            | 25...120 VA         | ZBV VG    | 0.010     |
| fitted with screw clamp terminal connections | ~ 230            | 30...230 VA         | ZBV VM    | 0.010     |

(1) To order ~ 440...460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8»: ZBV 5B becomes ZBV 8B.

To order ~ 550...600 V - 60 Hz transformer blocks, please replace «5» by «9»: ZBV 5B becomes ZBV 9B.

(2) Block for use with ~ light blocks with integral LED types ZBV J•, ZBV B•, ZBV BG• or with direct supply light block for BA 9s bulb, ZBV 6.

(3) Block for use ~ light blocks integral LED types ZBV G•, ZBV M•, see connection on page 76.

New

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To combine with heads, see pages 20 to 42



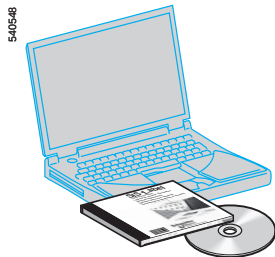
ZB4 BZ009



ZBE 1015



ZB4 BZ1015



XBY 2U

**Body/fixing collar**

| For use with                        | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 10              | ZB4 BZ009      | 0.038     |

**Contact functions****Spring clamp terminal connections (1)****Contacts for standard applications**

| Description    | Type of contact                |  |  | Sold in lots of | Unit reference                                                                                 | Weight kg |
|----------------|--------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------|-----------|
| Contact blocks | Single                         | 1                                                                                 | —                                                                                  | 4               | ZBE 1015    | 0.011     |
|                |                                | —                                                                                 | 1                                                                                  | 4               | ZBE 1025    | 0.011     |
|                | Single with body/fixing collar | 1                                                                                 | —                                                                                  | 1               | ZB4 BZ1015  | 0.053     |
|                |                                | —                                                                                 | 1                                                                                  | 1               | ZB4 BZ1025  | 0.053     |
|                |                                | 2                                                                                 | —                                                                                  | 1               | ZB4 BZ1035  | 0.062     |
|                |                                | —                                                                                 | 2                                                                                  | 1               | ZB4 BZ1045  | 0.062     |
|                |                                | 1                                                                                 | 1                                                                                  | 1               | ZB4 BZ1055  | 0.062     |

**Light blocks****Spring clamp terminal connections (1)**

| Description                                              | Supply voltage V          | Colour of light source | Sold in lots of | Unit reference                                                                                | Weight kg |
|----------------------------------------------------------|---------------------------|------------------------|-----------------|-----------------------------------------------------------------------------------------------|-----------|
| Integral LED<br>(to combine with heads for integral LED) | ~ 12<br>(50/60 Hz)        | White                  | 4               | ZBV J15  | 0.016     |
|                                                          |                           | Green                  | 4               | ZBV J35  | 0.016     |
|                                                          |                           | Red                    | 4               | ZBV J45  | 0.016     |
|                                                          |                           | Orange                 | 4               | ZBV J55  | 0.016     |
|                                                          |                           | Blue                   | 4               | ZBV J65  | 0.016     |
|                                                          | ~ 24<br>(50/60 Hz)        | White                  | 4               | ZBV B15  | 0.016     |
|                                                          |                           | Green                  | 4               | ZBV B35  | 0.016     |
|                                                          |                           | Red                    | 4               | ZBV B45  | 0.016     |
|                                                          |                           | Orange                 | 4               | ZBV B55  | 0.016     |
|                                                          |                           | Blue                   | 4               | ZBV B65  | 0.016     |
|                                                          | ~ 110...120<br>(50/60 Hz) | White                  | 4               | ZBV G15  | 0.016     |
|                                                          |                           | Green                  | 4               | ZBV G35  | 0.016     |
|                                                          |                           | Red                    | 4               | ZBV G45  | 0.016     |
|                                                          |                           | Orange                 | 4               | ZBV G55  | 0.016     |
|                                                          |                           | Blue                   | 4               | ZBV G65  | 0.016     |
|                                                          | ~ 230...240<br>(50/60 Hz) | White                  | 4               | ZBV M15  | 0.016     |
|                                                          |                           | Green                  | 4               | ZBV M35  | 0.016     |
|                                                          |                           | Red                    | 4               | ZBV M45  | 0.016     |
|                                                          |                           | Orange                 | 4               | ZBV M55  | 0.016     |
|                                                          |                           | Blue                   | 4               | ZBV M65  | 0.016     |

**Sheet of 50 blank legends**

| For use with          | Sold in lots of | Unit reference | Weight kg |
|-----------------------|-----------------|----------------|-----------|
| Legend holder ZBZ 001 | 10              | ZBY 001        | 0.023     |

**“SIS Label” labelling software (for legends ZBY 001)**

| For legend design<br>for English, French, German, Italian, Spanish | Sold in lots of | Unit reference | Weight kg |
|--------------------------------------------------------------------|-----------------|----------------|-----------|
|                                                                    | 10              | XBY 2U         | 0.100     |

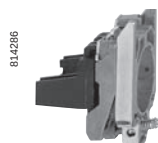
(1) It is not possible to fit an additional block on the back of these contact or light blocks.

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To combine with heads, see pages 28 to 42



ZB4 BZ009



ZB4 BZ079 + ZB4 BZ009



ZBZ 01●



ZBE 701



ZBE 702



ZBV B●7

**Body/fixing collar and accessories specifically for printed circuit board mounting (1)****Accessories required when using adaptor (socket) ZBZ 010**

| Description                                   | For use with                                                                  | Sold in lots of | Unit reference | Weight kg |
|-----------------------------------------------|-------------------------------------------------------------------------------|-----------------|----------------|-----------|
| <b>Body/fixing collar</b>                     | Electrical block (contact or light)                                           | 10              | ZB4 BZ009      | 0.006     |
| <b>Fixing collar/pillar</b>                   | Printed circuit board support (fixing screw ZBZ 006 to be ordered separately) | 10              | ZB4 BZ079      | 0.003     |
| <b>Fixing screw for printed circuit board</b> | Fixing collar/pillar ZB4 BZ079                                                | 10              | ZBZ 006        | 0.011     |

**Adapter (socket) (1)**

| For use with                        | Thickness of printed circuit board (mm) | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 1.6 ± 0.2                               | 10              | ZBZ 010        | 0.008     |
|                                     | 2.2 ± 0.2                               | 10              | ZBZ 011        | 0.008     |
|                                     | 3.2 ± 0.2                               | 10              | ZBZ 012        | 0.008     |

**Contact functions (1)****Contacts for standard applications**

| Description    | Type of contact |  |  | Sold in lots of | Unit reference | Weight kg |
|----------------|-----------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Contact blocks | Single          | 1                                                                                  | –                                                                                    | 5               | ZBE 701        | 0.011     |
|                |                 | –                                                                                  | 1                                                                                    | 5               | ZBE 702        | 0.011     |

**Contacts for specific applications**

| Application         | Type of contact |  |  | Sold in lots of | Unit reference | Weight kg |
|---------------------|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Low power switching | Single          | 1                                                                                   | –                                                                                     | 5               | ZBE 7016       | 0.012     |
|                     |                 | –                                                                                   | 1                                                                                     | 5               | ZBE 7026       | 0.012     |

**Light blocks (1)**

| Description                                           | Supply voltage V | Colour of LED | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------------------------|------------------|---------------|-----------------|----------------|-----------|
| Integral LED (to combine with heads for integral LED) | ≈ 24 (50/60 Hz)  | White         | 5               | ZBV B17        | 0.004     |
|                                                       |                  | Green         | 5               | ZBV B37        | 0.004     |
|                                                       |                  | Red           | 5               | ZBV B47        | 0.004     |
|                                                       |                  | Orange        | 5               | ZBV B57        | 0.004     |
|                                                       |                  | Blue          | 5               | ZBV B67        | 0.004     |

Protected  
LED

(1) For details of support drilling and of printed circuit board: see page 79

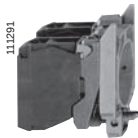
To combine with heads, see pages 20 to 42



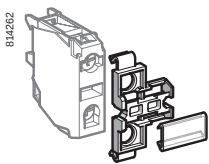
ZBE 1023



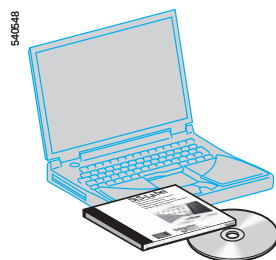
ZBE 2043



ZB4 BZ1053



ZBZ 001



XBY 2U

**Contact functions (1)****Faston connectors (6.35 or 2 x 2.8 mm) (Schneider Electric anti-retightening system)****Contacts for standard applications**

| Description    | Type of contact                |   |   | Sold in lots of | Unit reference | Weight kg |
|----------------|--------------------------------|---|---|-----------------|----------------|-----------|
| Contact blocks | Single                         | 1 | – | 5               | ZBE 1013       | 0.011     |
|                |                                | – | 1 | 5               | ZBE 1023       | 0.011     |
|                | Double                         | 2 | – | 5               | ZBE 2033       | 0.020     |
|                |                                | – | 2 | 5               | ZBE 2043       | 0.020     |
|                |                                | 1 | 1 | 5               | ZBE 2053       | 0.020     |
|                | Single with body/fixing collar | 1 | – | 1               | ZB4 BZ1013 (2) | 0.053     |
|                |                                | – | 1 | 1               | ZB4 BZ1023 (2) | 0.053     |
|                |                                | 2 | – | 1               | ZB4 BZ1033     | 0.062     |
|                |                                | – | 2 | 1               | ZB4 BZ1043     | 0.062     |
|                |                                | 1 | 1 | 1               | ZB4 BZ1053     | 0.062     |

**Contacts for specific applications**

| Application          | Type of contact | Description                                  |   |   | Sold in lots of | Unit reference | Weight kg |
|----------------------|-----------------|----------------------------------------------|---|---|-----------------|----------------|-----------|
| Low power switching  | Single          | Standard                                     | 1 | – | 5               | ZBE 10163 (2)  | 0.012     |
|                      |                 |                                              | – | 1 | 5               | ZBE 10263 (2)  | 0.012     |
|                      |                 | Dusty environments (3)<br>(IP5X, 50 µm dust) | 1 | – | 5               | ZBE 1016P3 (2) | 0.012     |
|                      |                 |                                              | – | 1 | 5               | ZBE 1026P3 (2) | 0.012     |
| Staggered contacts   | Single          | Early make                                   | 1 | – | 5               | ZBE 2013 (2)   | 0.011     |
|                      |                 | Late break                                   | – | 1 | 5               | ZBE 2023 (2)   | 0.011     |
|                      |                 | N/C                                          |   |   |                 |                |           |
| High power switching | Single          | Standard (4)                                 | 1 | – | 1               | ZBE 5013       | 0,021     |
|                      |                 |                                              | – | 1 | 1               | ZBE 5023       | 0,021     |
|                      |                 |                                              | 2 | – | 1               | ZBE 5033       | 0,033     |
|                      |                 |                                              | – | 2 | 1               | ZBE 5043       | 0,033     |
|                      |                 |                                              | 1 | 1 | 1               | ZBE 5053       | 0,033     |

**Clip-on legend holder for electrical blocks with screw clamp terminal connections (5)**

| For use with                                          | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------------------------|-----------------|----------------|-----------|
| Identification of an XB4 B control or signalling unit | 10              | ZBZ 001        | 0.001     |

**Sheet of 50 blank legends**

|                       |    |         |       |
|-----------------------|----|---------|-------|
| Legend holder ZBZ 001 | 10 | ZBY 001 | 0.023 |
|-----------------------|----|---------|-------|

**"SIS Label" labelling software (for legends ZBY 001)**

|                                                                 |   |        |       |
|-----------------------------------------------------------------|---|--------|-------|
| For legend design for English, French, German, Italian, Spanish | 1 | XBY 2U | 0.100 |
|-----------------------------------------------------------------|---|--------|-------|

- (1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3.  
Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).
- (2) To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9.  
Example: ZBE 1013 becomes ZBE 1019.
- (3) It is not possible to fit an additional contact block on the back of these contact blocks.
- (4) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.
- (5) This legend holder is not compatible with high power switching contact blocks.

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To combine with heads, see pages 20 to 42

814264



ZB4 BZ009

814278



ZBE 1014

814279



ZBE 1024

814135



ZB4 BZ1014

814136



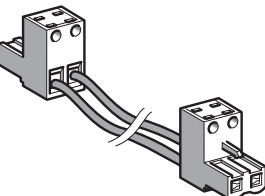
ZB4 BZ1024

814280



ZBV B•4

530719



APE 1C2250

**Body/fixing collar**

| For use with                        | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 10              | ZB4 BZ009      | 0.038     |

**Contact functions****Plug-in connector (1)****Contacts for standard applications**

| Description    | Type of contact                |  |  | Sold in lots of | Unit reference | Weight kg |
|----------------|--------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Contact blocks | Single                         | 1                                                                                 | –                                                                                  | 5               | ZBE 1014       | 0.011     |
|                |                                | –                                                                                 | 1                                                                                  | 5               | ZBE 1024       | 0.011     |
|                | Single with body/fixing collar | 1                                                                                 | –                                                                                  | 1               | ZB4 BZ1014     | 0.050     |
|                |                                | –                                                                                 | 1                                                                                  | 1               | ZB4 BZ1024     | 0.050     |
|                |                                | 2                                                                                 | –                                                                                  | 1               | ZB4 BZ1034     | 0.058     |
|                |                                | –                                                                                 | 2                                                                                  | 1               | ZB4 BZ1044     | 0.058     |
|                |                                | 1                                                                                 | 1                                                                                  | 1               | ZB4 BZ1054     | 0.058     |
|                |                                | 1                                                                                 | 2                                                                                  | 1               | ZB4 BZ1414     | 0.064     |

**Light blocks****Plug-in connector**

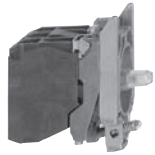
| Description                                              | Supply voltage (V)        | Colour of light source | Sold in lots of | Unit reference | Weight kg |
|----------------------------------------------------------|---------------------------|------------------------|-----------------|----------------|-----------|
| Integral LED<br>(to combine with heads for integral LED) | ~ 24<br>(50/60 Hz)        | White                  | 5               | ZBV B14        | 0.016     |
|                                                          |                           | Green                  | 5               | ZBV B34        | 0.016     |
|                                                          |                           | Red                    | 5               | ZBV B44        | 0.016     |
|                                                          |                           | Orange                 | 5               | ZBV B54        | 0.016     |
|                                                          |                           | Blue                   | 5               | ZBV B64        | 0.016     |
|                                                          | ~ 110...120<br>(50/60 Hz) | White                  | 5               | ZBV G14        | 0.016     |
|                                                          |                           | Green                  | 5               | ZBV G34        | 0.016     |
|                                                          |                           | Red                    | 5               | ZBV G44        | 0.016     |
|                                                          |                           | Orange                 | 5               | ZBV G54        | 0.016     |
|                                                          |                           | Blue                   | 5               | ZBV G64        | 0.016     |
|                                                          | ~ 230...240<br>(50/60 Hz) | White                  | 5               | ZBV M14        | 0.016     |
|                                                          |                           | Green                  | 5               | ZBV M34        | 0.016     |
|                                                          |                           | Red                    | 5               | ZBV M44        | 0.016     |
|                                                          |                           | Orange                 | 5               | ZBV M54        | 0.016     |
|                                                          |                           | Blue                   | 5               | ZBV M64        | 0.016     |

Protected  
LED**Connecting cables and connector**

| Description                                       | Number of connectors | Wire c.s.a. mm <sup>2</sup> | Length mm | Sold in lots of | Unit reference | Weight kg |
|---------------------------------------------------|----------------------|-----------------------------|-----------|-----------------|----------------|-----------|
| Cables with connectors<br>2-pin, 5.08 mm pitch    | 1                    | 0.75                        | 500       | 8               | APE 1C2150     | 0.120     |
|                                                   | 2                    | 0.75                        | 500       | 8               | APE 1C2250     | 0.180     |
| Spring terminal connector<br>2-pin, 5.08 mm pitch | –                    | 0.2 to 2.5                  | –         | 10              | APE 1PRE21     | 0.003     |

(1) It is not possible to fit an additional contact block on the back of these contact blocks.

To combine with:  
heads, see pages 23 to 39  
contacts, see page 44



ZB4 BW0...3

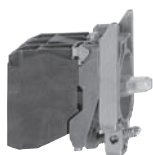
| Complete body/contact assemblies and light blocks <sup>(1)</sup>                                  |                           |                 |     |                        |            |        |
|---------------------------------------------------------------------------------------------------|---------------------------|-----------------|-----|------------------------|------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)                    |                           |                 |     |                        |            |        |
| Light source                                                                                      | Supply voltage            | Type of contact |     | Colour of light source | Reference  | Weight |
|                                                                                                   | V                         | N/O             | N/C |                        |            | kg     |
| <b>Direct supply</b>                                                                              |                           |                 |     |                        |            |        |
| Integral LED<br> | ~ 24<br>(50/60 Hz)        | 1               | —   | White                  | ZB4 BW0B11 | 0.064  |
|                                                                                                   |                           |                 |     | Green                  | ZB4 BW0B31 | 0.064  |
|                                                                                                   |                           |                 |     | Red                    | ZB4 BW0B41 | 0.064  |
|                                                                                                   |                           |                 |     | Orange                 | ZB4 BW0B51 | 0.064  |
|                                                                                                   |                           |                 |     | Blue                   | ZB4 BW0B61 | 0.064  |
|                                                                                                   |                           | —               | 1   | White                  | ZB4 BW0B12 | 0.064  |
|                                                                                                   |                           |                 |     | Green                  | ZB4 BW0B32 | 0.064  |
|                                                                                                   |                           |                 |     | Red                    | ZB4 BW0B42 | 0.064  |
|                                                                                                   |                           |                 |     | Orange                 | ZB4 BW0B52 | 0.064  |
|                                                                                                   |                           |                 |     | Blue                   | ZB4 BW0B62 | 0.064  |
|                                                                                                   |                           | 2               | —   | White                  | ZB4 BW0B13 | 0.074  |
|                                                                                                   |                           |                 |     | Green                  | ZB4 BW0B33 | 0.074  |
|                                                                                                   |                           |                 |     | Red                    | ZB4 BW0B43 | 0.074  |
|                                                                                                   |                           |                 |     | Orange                 | ZB4 BW0B53 | 0.074  |
|                                                                                                   |                           |                 |     | Blue                   | ZB4 BW0B63 | 0.074  |
|                                                                                                   |                           | 1               | 1   | White                  | ZB4 BW0B15 | 0.074  |
|                                                                                                   |                           |                 |     | Green                  | ZB4 BW0B35 | 0.074  |
|                                                                                                   |                           |                 |     | Red                    | ZB4 BW0B45 | 0.074  |
|                                                                                                   |                           |                 |     | Orange                 | ZB4 BW0B55 | 0.074  |
|                                                                                                   |                           |                 |     | Blue                   | ZB4 BW0B65 | 0.074  |
|                                                                                                   | ~ 110...120<br>(50/60 Hz) | 1               | —   | White                  | ZB4 BW0G11 | 0.064  |
|                                                                                                   |                           |                 |     | Green                  | ZB4 BW0G31 | 0.064  |
|                                                                                                   |                           |                 |     | Red                    | ZB4 BW0G41 | 0.064  |
|                                                                                                   |                           |                 |     | Orange                 | ZB4 BW0G51 | 0.064  |
|                                                                                                   |                           |                 |     | Blue                   | ZB4 BW0G61 | 0.064  |
|                                                                                                   |                           | —               | 1   | White                  | ZB4 BW0G12 | 0.064  |
|                                                                                                   |                           |                 |     | Green                  | ZB4 BW0G32 | 0.064  |
|                                                                                                   |                           |                 |     | Red                    | ZB4 BW0G42 | 0.064  |
|                                                                                                   |                           |                 |     | Orange                 | ZB4 BW0G52 | 0.064  |
|                                                                                                   |                           |                 |     | Blue                   | ZB4 BW0G62 | 0.064  |
|                                                                                                   |                           | 2               | —   | White                  | ZB4 BW0G13 | 0.074  |
|                                                                                                   |                           |                 |     | Green                  | ZB4 BW0G33 | 0.074  |
|                                                                                                   |                           |                 |     | Red                    | ZB4 BW0G43 | 0.074  |
|                                                                                                   |                           |                 |     | Orange                 | ZB4 BW0G53 | 0.074  |
|                                                                                                   |                           |                 |     | Blue                   | ZB4 BW0G63 | 0.074  |
|                                                                                                   |                           | 1               | 1   | White                  | ZB4 BW0G15 | 0.074  |
|                                                                                                   |                           |                 |     | Green                  | ZB4 BW0G35 | 0.074  |
|                                                                                                   |                           |                 |     | Red                    | ZB4 BW0G45 | 0.074  |
|                                                                                                   |                           |                 |     | Orange                 | ZB4 BW0G55 | 0.074  |
|                                                                                                   |                           |                 |     | Blue                   | ZB4 BW0G65 | 0.074  |

**Other versions**

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 44.

To combine with:  
heads, see pages 23 to 39  
contacts, see page 44



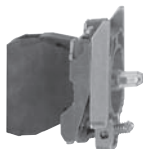
ZB4 BW0...3

| Complete body/contact assemblies and light blocks <sup>(1)</sup> <i>(continued)</i> |                           |                                                                                                                  |                                                                                   |                        |            |        |
|-------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)      |                           |                                                                                                                  |                                                                                   |                        |            |        |
| Light source                                                                        | Supply voltage            | Type of contact                                                                                                  |                                                                                   | Colour of light source | Reference  | Weight |
|                                                                                     | V                         |                                 |  |                        |            | kg     |
| Direct supply <i>(continued)</i>                                                    |                           |                                                                                                                  |                                                                                   |                        |            |        |
| <div>Integral LED</div> <div>Protected LED</div>                                    | ~ 230...240<br>(50/60 Hz) | 1                                                                                                                | —                                                                                 | White                  | ZB4 BW0M11 | 0.064  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Green                  | ZB4 BW0M31 | 0.064  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Red                    | ZB4 BW0M41 | 0.064  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Orange                 | ZB4 BW0M51 | 0.064  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Blue                   | ZB4 BW0M61 | 0.064  |
|                                                                                     |                           | —                                                                                                                | 1                                                                                 | White                  | ZB4 BW0M12 | 0.064  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Green                  | ZB4 BW0M32 | 0.064  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Red                    | ZB4 BW0M42 | 0.064  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Orange                 | ZB4 BW0M52 | 0.064  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Blue                   | ZB4 BW0M62 | 0.064  |
|                                                                                     |                           | 2                                                                                                                | —                                                                                 | White                  | ZB4 BW0M13 | 0.074  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Green                  | ZB4 BW0M33 | 0.074  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Red                    | ZB4 BW0M43 | 0.074  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Orange                 | ZB4 BW0M53 | 0.074  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Blue                   | ZB4 BW0M63 | 0.074  |
|                                                                                     |                           | 1                                                                                                                | 1                                                                                 | White                  | ZB4 BW0M15 | 0.074  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Green                  | ZB4 BW0M35 | 0.074  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Red                    | ZB4 BW0M45 | 0.074  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Orange                 | ZB4 BW0M55 | 0.074  |
|                                                                                     |                           |                                                                                                                  |                                                                                   | Blue                   | ZB4 BW0M65 | 0.074  |
| Other versions                                                                      |                           | Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).<br>Please consult your Regional Sales Office. |                                                                                   |                        |            |        |

(1) Can be fitted with additional contact blocks: see page 44.

To combine with:  
heads, see page 40  
contacts, see page 44

814207



ZB4 BV●●

**Complete light bodies** (fixing collar + light block with integral LED)  
**Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Light source                             | Supply voltage<br>V           | Colour of<br>light source | Reference | Weight<br>kg |
|------------------------------------------|-------------------------------|---------------------------|-----------|--------------|
| Integral LED<br><b>protected<br/>LED</b> | ~ 12<br>(50/60 Hz)            | White                     | ZB4 BVJ1  | 0.054        |
|                                          |                               | Green                     | ZB4 BVJ3  | 0.054        |
|                                          |                               | Red                       | ZB4 BVJ4  | 0.054        |
|                                          |                               | Orange                    | ZB4 BVJ5  | 0.054        |
|                                          |                               | Blue                      | ZB4 BVJ6  | 0.054        |
|                                          | ~ 24 (1)<br>(50/60 Hz)        | White                     | ZB4 BVB1  | 0.054        |
|                                          |                               | Green                     | ZB4 BVB3  | 0.054        |
|                                          |                               | Red                       | ZB4 BVB4  | 0.054        |
|                                          |                               | Orange                    | ZB4 BVB5  | 0.054        |
|                                          |                               | Blue                      | ZB4 BVB6  | 0.054        |
|                                          | ~ 24...120<br>(50/60 Hz)      | White                     | ZB4 BVBG1 | 0.054        |
|                                          |                               | Green                     | ZB4 BVBG3 | 0.054        |
|                                          |                               | Red                       | ZB4 BVBG4 | 0.054        |
|                                          |                               | Orange                    | ZB4 BVBG5 | 0.054        |
|                                          |                               | Blue                      | ZB4 BVBG6 | 0.054        |
|                                          | ~ 110...120 (1)<br>(50/60 Hz) | White                     | ZB4 BVG1  | 0.054        |
|                                          |                               | Green                     | ZB4 BVG3  | 0.054        |
|                                          |                               | Red                       | ZB4 BVG4  | 0.054        |
|                                          |                               | Orange                    | ZB4 BVG5  | 0.054        |
|                                          |                               | Blue                      | ZB4 BVG6  | 0.054        |
|                                          | ~ 230...240 (1)<br>(50/60 Hz) | White                     | ZB4 BVM1  | 0.054        |
|                                          |                               | Green                     | ZB4 BVM3  | 0.054        |
|                                          |                               | Red                       | ZB4 BVM4  | 0.054        |
|                                          |                               | Orange                    | ZB4 BVM5  | 0.054        |
|                                          |                               | Blue                      | ZB4 BVM6  | 0.054        |

(1) Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 48.

To combine with:  
heads, see page 40  
contacts, see page 44



ZB4 BVB156

**Complete light bodies with 3-terminal “test” function**

(fixing collar + light block with integral LED + pre-wired block for “test light” function)

**Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Light source                             | Supply voltage<br>V         | Colour of<br>light source | Reference   | Weight<br>kg |
|------------------------------------------|-----------------------------|---------------------------|-------------|--------------|
| Integral LED<br><b>Protected<br/>LED</b> | $\sim$ 24 (1)<br>(50/60 Hz) | White                     | ZB4 BVB1156 | 0.054        |
|                                          |                             | Green                     | ZB4 BVB3156 | 0.054        |
|                                          |                             | Red                       | ZB4 BVB4156 | 0.054        |
|                                          |                             | Orange                    | ZB4 BVB5156 | 0.054        |
|                                          |                             | Blue                      | ZB4 BVB6156 | 0.054        |

**Complete bodies with flashing pilot light** (fixing collar + light block with integral LED)**Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Light source                             | Supply voltage<br>V            | Colour of<br>light source | Reference  | Weight<br>kg |
|------------------------------------------|--------------------------------|---------------------------|------------|--------------|
| Integral LED<br><b>Protected<br/>LED</b> | $\sim$ 24<br>(50/60 Hz)        | White                     | ZB4 BV18B1 | 0.054        |
|                                          |                                | Green                     | ZB4 BV18B3 | 0.054        |
|                                          |                                | Red                       | ZB4 BV18B4 | 0.054        |
|                                          |                                | Orange                    | ZB4 BV18B5 | 0.054        |
|                                          |                                | Blue                      | ZB4 BV18B6 | 0.054        |
|                                          | $\sim$ 110...120<br>(50/60 Hz) | White                     | ZB4 BV18G1 | 0.054        |
|                                          |                                | Green                     | ZB4 BV18G3 | 0.054        |
|                                          |                                | Red                       | ZB4 BV18G4 | 0.054        |
|                                          |                                | Orange                    | ZB4 BV18G5 | 0.054        |
|                                          |                                | Blue                      | ZB4 BV18G6 | 0.054        |
|                                          | $\sim$ 230...240<br>(50/60 Hz) | White                     | ZB4 BV18M1 | 0.054        |
|                                          |                                | Green                     | ZB4 BV18M3 | 0.054        |
|                                          |                                | Red                       | ZB4 BV18M4 | 0.054        |
|                                          |                                | Orange                    | ZB4 BV18M5 | 0.054        |
|                                          |                                | Blue                      | ZB4 BV18M6 | 0.054        |

(1) For a  $\sim$  120 or 230 V supply, use complete body ZB4 BVG● or ZB4 BVM● with block for “test light” function type ZBZ M156, see page 40 and 45.

To combine with:  
heads, see page 25  
contacts, see page 44

# Control and signalling units Ø 22

Harmony® XB4, metal

Body/contact assemblies + light blocks with  
BA 9s base fitting



ZB4 BW06●



ZB4 BW05●

## Complete body/contact assemblies and light blocks <sup>(1)</sup>

For bulb with BA 9s base fitting (incandescent, neon or LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Light source                                            | Supply voltage                  | Type of contact                                                                          |                                                                                          | Colour of light source | Reference   | Weight      |       |
|---------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------|-------------|-------------|-------|
|                                                         |                                 | <br>N/O | <br>N/C |                        |             |             |       |
|                                                         | V                               |                                                                                          |                                                                                          |                        |             | kg          |       |
| Direct supply                                           |                                 |                                                                                          |                                                                                          |                        |             |             |       |
| BA9s base fitting bulb, 2.4 W max, not included (2)     | ≤ 250                           | 1                                                                                        | –                                                                                        | –                      | ZB4 BW061   | 0.063       |       |
|                                                         |                                 | –                                                                                        | 1                                                                                        | –                      | ZB4 BW062   | 0.063       |       |
|                                                         |                                 | 2                                                                                        | –                                                                                        | –                      | ZB4 BW063   | 0.073       |       |
|                                                         |                                 | 1                                                                                        | 1                                                                                        | –                      | ZB4 BW065   | 0.073       |       |
| Supply via integral transformer (1.2 VA, 6 V secondary) |                                 |                                                                                          |                                                                                          |                        |             |             |       |
| BA9s base fitting incandescent bulb, included           | ~ 110...120<br>50/60 Hz         | 1                                                                                        | –                                                                                        | –                      | ZB4 BW031   | 0.141       |       |
|                                                         |                                 | 1                                                                                        | 1                                                                                        | –                      | ZB4 BW035   | 0.151       |       |
|                                                         | ~ 230<br>50 Hz                  | 1                                                                                        | –                                                                                        | –                      | ZB4 BW041   | 0.141       |       |
|                                                         |                                 | 1                                                                                        | 1                                                                                        | –                      | ZB4 BW045   | 0.151       |       |
|                                                         | ~ 220...240<br>60 Hz            | 1                                                                                        | –                                                                                        | –                      | ZB4 BW051   | 0.141       |       |
|                                                         |                                 | 1                                                                                        | 1                                                                                        | –                      | ZB4 BW055   | 0.151       |       |
|                                                         | BA9s base fitting LED, included | ~ 110...120<br>50/60 Hz                                                                  | 1                                                                                        | 1                      | White       | ZB4 BW03D15 | 0.151 |
|                                                         |                                 |                                                                                          |                                                                                          |                        | Green       | ZB4 BW03D35 | 0.151 |
|                                                         |                                 |                                                                                          |                                                                                          |                        | Red         | ZB4 BW03D45 | 0.151 |
|                                                         |                                 |                                                                                          |                                                                                          |                        | Orange      | ZB4 BW03D55 | 0.151 |
| Blue                                                    |                                 |                                                                                          |                                                                                          |                        | ZB4 BW03D65 | 0.151       |       |
| ~ 230<br>50 Hz                                          |                                 | 1                                                                                        | 1                                                                                        | White                  | ZB4 BW04D15 | 0.151       |       |
|                                                         |                                 |                                                                                          |                                                                                          | Green                  | ZB4 BW04D35 | 0.151       |       |
|                                                         |                                 |                                                                                          |                                                                                          | Red                    | ZB4 BW04D45 | 0.151       |       |
|                                                         |                                 |                                                                                          |                                                                                          | Orange                 | ZB4 BW04D55 | 0.151       |       |
|                                                         |                                 |                                                                                          |                                                                                          | Blue                   | ZB4 BW04D65 | 0.151       |       |
| ~ 220...240<br>60 Hz                                    | 1                               | 1                                                                                        | White                                                                                    | ZB4 BW05D15            | 0.152       |             |       |
|                                                         |                                 |                                                                                          | Green                                                                                    | ZB4 BW05D35            | 0.152       |             |       |
|                                                         |                                 |                                                                                          | Red                                                                                      | ZB4 BW05D45            | 0.152       |             |       |
|                                                         |                                 |                                                                                          | Orange                                                                                   | ZB4 BW05D55            | 0.152       |             |       |
|                                                         |                                 |                                                                                          | Blue                                                                                     | ZB4 BW05D65            | 0.152       |             |       |

### Other versions

Complete bodies with integral transformer incorporating Faston connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 44.

(2) Bulb to be ordered separately: see page 66.

To combine with:  
heads, see page 41  
contacts, see page 44

**Light blocks****Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Description                                                                   | Supply voltage<br>V | Sold in<br>lots of | Unit<br>reference | Weight<br>kg |
|-------------------------------------------------------------------------------|---------------------|--------------------|-------------------|--------------|
| Direct supply for BA 9s<br>base fitting bulb, 2.4 W max.,<br>not included (1) | ≤ 250               | 5                  | ZBV 6             | 0.016        |

**Complete light bodies** (fixing collar + light block )**For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Light source | Supply voltage<br>V | Colour of<br>light source | Reference | Weight<br>kg |
|--------------|---------------------|---------------------------|-----------|--------------|
|--------------|---------------------|---------------------------|-----------|--------------|

**Direct supply**

|                                                            |       |   |         |       |
|------------------------------------------------------------|-------|---|---------|-------|
| BA 9s base fitting bulb,<br>2.4 W max,<br>not included (1) | ≤ 250 | – | ZB4 BV6 | 0.052 |
|------------------------------------------------------------|-------|---|---------|-------|

**Supply via integral transformer (1.2 VA, 6 V secondary)**

|                                                      |                        |   |         |       |
|------------------------------------------------------|------------------------|---|---------|-------|
| BA 9s base fitting<br>incandescent bulb,<br>included | ~ 110...120 - 50/60 Hz | – | ZB4 BV3 | 0.130 |
|                                                      | ~ 230 - 50 Hz          | – | ZB4 BV4 | 0.130 |
|                                                      | ~ 220...240 - 60 Hz    | – | ZB4 BV5 | 0.131 |
|                                                      | ~ 400 - 50 Hz          | – | ZB4 BV8 | 0.128 |
|                                                      | ~ 440...480 - 60 Hz    | – | ZB4 BV9 | 0.131 |

|                                     |                        |        |           |       |
|-------------------------------------|------------------------|--------|-----------|-------|
| BA 9s base fitting LED,<br>included | ~ 110...120 - 50/60 Hz | White  | ZB4 BV3D1 | 0.134 |
|                                     |                        | Green  | ZB4 BV3D3 | 0.134 |
|                                     |                        | Red    | ZB4 BV3D4 | 0.134 |
|                                     |                        | Orange | ZB4 BV3D5 | 0.134 |
|                                     |                        | Blue   | ZB4 BV3D6 | 0.134 |

|  |                                      |        |           |       |
|--|--------------------------------------|--------|-----------|-------|
|  | ~ 230 - 50 Hz<br>~ 220...240 - 60 Hz | White  | ZB4 BV4D1 | 0.134 |
|  |                                      | Green  | ZB4 BV4D3 | 0.134 |
|  |                                      | Red    | ZB4 BV4D4 | 0.134 |
|  |                                      | Orange | ZB4 BV4D5 | 0.134 |
|  |                                      | Blue   | ZB4 BV4D6 | 0.134 |

|  |                  |        |           |       |
|--|------------------|--------|-----------|-------|
|  | ~ 400 - 50/60 Hz | White  | ZB4 BV5D1 | 0.134 |
|  |                  | Green  | ZB4 BV5D3 | 0.134 |
|  |                  | Red    | ZB4 BV5D4 | 0.134 |
|  |                  | Orange | ZB4 BV5D5 | 0.134 |
|  |                  | Blue   | ZB4 BV5D6 | 0.134 |

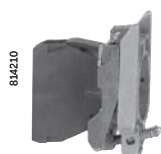
**Complete light bodies with 3-terminal "test" function** (fixing collar + light block)**For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)**Direct supply**

|                                                            |       |   |           |       |
|------------------------------------------------------------|-------|---|-----------|-------|
| BA 9s base fitting bulb,<br>2.4 W max,<br>not included (1) | ≤ 250 | – | ZB4 BV156 | 0.062 |
|------------------------------------------------------------|-------|---|-----------|-------|

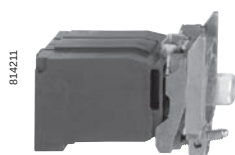
(1) Bulb to be ordered separately, see page 66.

**Other versions**

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 48.



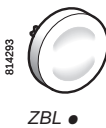
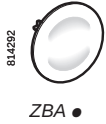
ZB4 BV6



ZB4 BV●



ZB4 BV156



## Pushbutton caps - unmarked

| For use with                                  | Type of push | Colour        | Sold in lots of | Unit reference | Weight kg |
|-----------------------------------------------|--------------|---------------|-----------------|----------------|-----------|
| ZB4 BA0 pushbutton heads supplied without cap | Flush        | White         | 10              | ZBA 1          | 0.001     |
|                                               |              | Black         | 10              | ZBA 2          | 0.001     |
|                                               |              | Green         | 10              | ZBA 3          | 0.001     |
|                                               |              | Red           | 10              | ZBA 4          | 0.001     |
|                                               |              | Yellow        | 10              | ZBA 5          | 0.001     |
|                                               |              | Blue          | 10              | ZBA 6          | 0.001     |
|                                               |              | 6 colours (1) | 1               | ZBA 9          | 0.006     |
|                                               | Projecting   | White         | 10              | ZBL 1          | 0.001     |
|                                               |              | Black         | 10              | ZBL 2          | 0.001     |
|                                               |              | Green         | 10              | ZBL 3          | 0.001     |
|                                               |              | Red           | 10              | ZBL 4          | 0.001     |
|                                               |              | Yellow        | 10              | ZBL 5          | 0.001     |
|                                               |              | Blue          | 10              | ZBL 6          | 0.001     |
|                                               |              | 6 colours (1) | 1               | ZBL 9          | 0.006     |

## Pushbutton caps - marked

| For use with                                                       | Type of push | Marking   |        | Colour of cap | Unit reference | Weight kg |
|--------------------------------------------------------------------|--------------|-----------|--------|---------------|----------------|-----------|
|                                                                    |              | Text      | Colour |               |                |           |
| ZB4 BA0 pushbutton heads supplied without cap (sold in lots of 10) | Flush        | I (2)     | White  | Green         | ZBA 331        | 0.001     |
|                                                                    |              |           | Black  | White         | ZBA 131        | 0.001     |
|                                                                    |              | II        | White  | Green         | ZBA 336        | 0.001     |
|                                                                    |              |           | Black  | White         | ZBA 136        | 0.001     |
|                                                                    |              | III       | White  | Green         | ZBA 337        | 0.001     |
|                                                                    |              |           | Black  | White         | ZBA 137        | 0.001     |
|                                                                    |              | IV        | White  | Green         | ZBA 338        | 0.001     |
|                                                                    |              |           | Black  | White         | ZBA 138        | 0.001     |
|                                                                    |              | START (2) | White  | Green         | ZBA 333        | 0.001     |
|                                                                    |              |           | Black  | White         | ZBA 133        | 0.001     |
|                                                                    |              | ON        | White  | Green         | ZBA 341        | 0.001     |
|                                                                    |              |           | Black  | White         | ZBA 141        | 0.001     |
|                                                                    |              | MARCHE    | White  | Green         | ZBA 342        | 0.001     |
|                                                                    |              |           | Black  | White         | ZBA 142        | 0.001     |
|                                                                    |              | UP (2)    | Black  | White         | ZBA 343        | 0.001     |
|                                                                    |              |           | White  | Black         | ZBA 344        | 0.001     |
|                                                                    |              | DOWN (2)  | White  | Black         | ZBA 245        | 0.001     |
|                                                                    |              |           | Black  | White         | ZBA 145        | 0.001     |
|                                                                    |              | ⬆ (2)     | White  | Black         | ZBA 335        | 0.001     |
|                                                                    |              |           | Black  | White         | ZBA 334        | 0.001     |
|                                                                    |              | O (2)     | White  | Red           | ZBA 432        | 0.001     |
|                                                                    |              |           | Black  | Black         | ZBA 232        | 0.001     |
|                                                                    |              | ARRET     | White  | Red           | ZBA 433        | 0.001     |
|                                                                    |              |           | Black  | Black         | ZBA 233        | 0.001     |
|                                                                    |              | STOP (2)  | White  | Red           | ZBA 434        | 0.001     |
|                                                                    |              |           | Black  | Black         | ZBA 234        | 0.001     |
|                                                                    |              | OFF       | White  | Red           | ZBA 435        | 0.001     |
|                                                                    |              |           | Black  | Black         | ZBA 235        | 0.001     |
|                                                                    |              | ◊         | White  | Green         | ZBA 346        | 0.001     |
|                                                                    |              |           | White  | Blue          | ZBA 639        | 0.001     |
|                                                                    |              | + (2)     | White  | Black         | ZBA 2934       | 0.001     |
|                                                                    |              |           | White  | Black         | ZBA 2935       | 0.001     |

(1) Set of 6 different coloured caps: white, black, green, red, yellow, blue.

(2) Double injection moulded marking.

(3) Can be clipped-in at 90° steps, through 360°

81.4334



ZBP 0

**Transparent boots for pushbuttons (1)**

| Description  | For use with pushbutton types                                         | Sold in lots of | Unit reference | Weight kg |
|--------------|-----------------------------------------------------------------------|-----------------|----------------|-----------|
| Single boots | Flush with circular head                                              | 10              | ZBP A          | 0.002     |
|              | Projecting with circular head                                         | 10              | ZBP 0          | 0.002     |
|              | Flush or projecting with circular head for food industry applications | 10              | ZBP 0A         | 0.002     |

**Coloured boots**

| Description                                                      | Colour | Sold in lots of | Unit reference | Weight kg |
|------------------------------------------------------------------|--------|-----------------|----------------|-----------|
| Coloured boots<br>(can be replaced without dismantling the head) | Black  | 10              | ZB2 BP012      | 0.003     |
|                                                                  | Green  | 10              | ZB2 BP013      | 0.003     |
|                                                                  | Red    | 10              | ZB2 BP014      | 0.003     |
|                                                                  | Yellow | 10              | ZB2 BP015      | 0.003     |
|                                                                  | Blue   | 10              | ZB2 BP016      | 0.003     |

**Lens caps**

| For use with | Colour | Sold in lots of | Unit reference | Weight kg |
|--------------|--------|-----------------|----------------|-----------|
|--------------|--------|-----------------|----------------|-----------|

**Lens caps for light sources with integral LED**

|              |                                         |    |           |       |
|--------------|-----------------------------------------|----|-----------|-------|
| Pilot lights | White                                   | 10 | ZBV 0113  | 0.002 |
|              | Green                                   | 10 | ZBV 0133  | 0.002 |
|              | Red                                     | 10 | ZBV 0143  | 0.002 |
|              | Orange                                  | 10 | ZBV 0153  | 0.002 |
|              | Blue                                    | 10 | ZBV 0163  | 0.002 |
|              | 5 different coloured grooved lenses (2) | 5  | ZBV 0103S | 0.010 |

|                                             |        |    |          |       |
|---------------------------------------------|--------|----|----------|-------|
| Illuminated pushbuttons,<br>with flush push | White  | 10 | ZBW 9113 | 0.002 |
|                                             | Green  | 10 | ZBW 9133 | 0.002 |
|                                             | Red    | 10 | ZBW 9143 | 0.002 |
|                                             | Orange | 10 | ZBW 9153 | 0.002 |
|                                             | Blue   | 10 | ZBW 9163 | 0.002 |

|                                                  |        |    |          |       |
|--------------------------------------------------|--------|----|----------|-------|
| Illuminated pushbuttons,<br>with projecting push | White  | 10 | ZBW 9313 | 0.002 |
|                                                  | Green  | 10 | ZBW 9333 | 0.002 |
|                                                  | Red    | 10 | ZBW 9343 | 0.002 |
|                                                  | Orange | 10 | ZBW 9353 | 0.002 |
|                                                  | Blue   | 10 | ZBW 9363 | 0.002 |

**Lens caps for light sources with BA 9s base fitting**

|              |        |    |         |       |
|--------------|--------|----|---------|-------|
| Pilot lights | White  | 10 | ZBV 011 | 0.002 |
|              | Green  | 10 | ZBV 013 | 0.002 |
|              | Red    | 10 | ZBV 014 | 0.002 |
|              | Orange | 10 | ZBV 015 | 0.002 |
|              | Blue   | 10 | ZBV 016 | 0.002 |
|              | Clear  | 10 | ZBV 017 | 0.002 |

|                                                 |        |    |         |       |
|-------------------------------------------------|--------|----|---------|-------|
| Pushbuttons,<br>illuminated,<br>with flush push | White  | 10 | ZBW 911 | 0.002 |
|                                                 | Green  | 10 | ZBW 913 | 0.002 |
|                                                 | Red    | 10 | ZBW 914 | 0.002 |
|                                                 | Orange | 10 | ZBW 915 | 0.002 |
|                                                 | Blue   | 10 | ZBW 916 | 0.002 |
|                                                 | Clear  | 10 | ZBW 917 | 0.002 |

|                                                      |        |    |         |       |
|------------------------------------------------------|--------|----|---------|-------|
| Pushbuttons,<br>illuminated,<br>with projecting push | White  | 10 | ZBW 931 | 0.002 |
|                                                      | Green  | 10 | ZBW 933 | 0.002 |
|                                                      | Red    | 10 | ZBW 934 | 0.002 |
|                                                      | Orange | 10 | ZBW 935 | 0.002 |
|                                                      | Blue   | 10 | ZBW 936 | 0.002 |
|                                                      | Clear  | 10 | ZBW 937 | 0.002 |

(1) Boots for multiple-headed pushbuttons: see page 27

(2) Clear, green, red, orange, blue.

81.4336

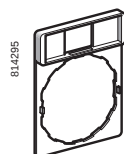


ZBV 01●3

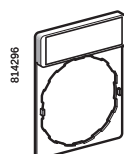
81.4337



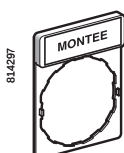
ZBV 01●



ZBZ 32



ZBY 2101



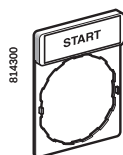
ZBY 2107

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends<sup>(1)</sup>

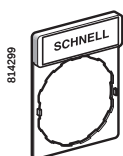
| Description                                          | Legend Colour               | Marking                       | Sold in lots of | Unit reference | Weight kg |
|------------------------------------------------------|-----------------------------|-------------------------------|-----------------|----------------|-----------|
| Without legend                                       | –                           | –                             | 10              | ZBZ 32         | 0.001     |
| With blank legend (for engraving)                    | Black or red background     | –                             | 10              | ZBY 2101       | 0.002     |
|                                                      | White or yellow background  | –                             | 10              | ZBY 4101       | 0.002     |
| With 8 x 27 mm legend (with International marking)   | Black or red background (2) | O (black background)          | 1               | ZBY 2146       | 0.002     |
|                                                      |                             | O (red background)            | 1               | ZBY 2931       | 0.002     |
|                                                      |                             | I                             | 1               | ZBY 2147       | 0.002     |
|                                                      |                             | II                            | 1               | ZBY 2148       | 0.002     |
|                                                      |                             | O-I                           | 1               | ZBY 2178       | 0.002     |
|                                                      |                             | I-II                          | 1               | ZBY 2179       | 0.002     |
|                                                      |                             | I-O-II                        | 1               | ZBY 2186       | 0.002     |
|                                                      |                             | AUTO                          | 1               | ZBY 2115       | 0.002     |
|                                                      |                             | STOP                          | 1               | ZBY 2304       | 0.002     |
|                                                      |                             | ARRET (red background)        | 1               | ZBY 2104       | 0.002     |
|                                                      |                             | ARRET (black background)      | 1               | ZBY 0104       | 0.002     |
|                                                      |                             | ARRET GENERAL                 | 1               | ZBY 2129       | 0.002     |
|                                                      |                             | ARRET REARMEMENT              | 1               | ZBY 2133       | 0.002     |
|                                                      |                             | ARRET-MARCHE                  | 1               | ZBY 2166       | 0.002     |
|                                                      |                             | ARRIERE                       | 1               | ZBY 2106       | 0.002     |
| With 8 x 27 mm legend (with French language marking) | Black or red background (2) | AUTO CYCLE-CYCLE              | 1               | ZBY 2198       | 0.002     |
|                                                      |                             | AUTO CYCLE-MAIN               | 1               | ZBY 2199       | 0.002     |
|                                                      |                             | AUTO-MAIN                     | 1               | ZBY 2164       | 0.002     |
|                                                      |                             | AUTO-O-MAIN                   | 1               | ZBY 2185       | 0.002     |
|                                                      |                             | AVANT                         | 1               | ZBY 2105       | 0.002     |
|                                                      |                             | AVANT-O-ARRIERE               | 1               | ZBY 2184       | 0.002     |
|                                                      |                             | C-P-C-NORMAL                  | 1               | ZBY 2165       | 0.002     |
|                                                      |                             | CYCLE-MAIN                    | 1               | ZBY 2197       | 0.002     |
|                                                      |                             | DECLenchement                 | 1               | ZBY 2132       | 0.002     |
|                                                      |                             | DEFAULT (black background)    | 1               | ZBY 2134       | 0.002     |
|                                                      |                             | DEFAULT (red background)      | 1               | ZBY 2135       | 0.002     |
|                                                      |                             | DEPART CYCLE                  | 1               | ZBY 2195       | 0.002     |
|                                                      |                             | DESCENTE                      | 1               | ZBY 2108       | 0.002     |
|                                                      |                             | DROITE                        | 1               | ZBY 2109       | 0.002     |
|                                                      |                             | ENCLenchement                 | 1               | ZBY 2131       | 0.002     |
|                                                      |                             | EN SERVICE                    | 1               | ZBY 2111       | 0.002     |
|                                                      |                             | FERMETURE                     | 1               | ZBY 2114       | 0.002     |
|                                                      |                             | GAUCHE                        | 1               | ZBY 2110       | 0.002     |
|                                                      |                             | HORS SERVICE                  | 1               | ZBY 2112       | 0.002     |
|                                                      |                             | HORS-EN                       | 1               | ZBY 2167       | 0.002     |
|                                                      |                             | LENT                          | 1               | ZBY 2127       | 0.002     |
|                                                      |                             | MAIN                          | 1               | ZBY 2116       | 0.002     |
|                                                      |                             | MARCHE                        | 1               | ZBY 2103       | 0.002     |
|                                                      |                             | MONTEE                        | 1               | ZBY 2107       | 0.002     |
|                                                      |                             | OUVERTURE                     | 1               | ZBY 2113       | 0.002     |
|                                                      |                             | PHASE / PHASE                 | 1               | ZBY 2196       | 0.002     |
|                                                      |                             | REARMEMENT (red background)   | 1               | ZBY 2123       | 0.002     |
|                                                      |                             | REARMEMENT (black background) | 1               | ZBY 0123       | 0.002     |
|                                                      |                             | SOUS TENSION                  | 1               | ZBY 2126       | 0.002     |
|                                                      |                             | VITE                          | 1               | ZBY 2128       | 0.002     |
|                                                      | Yellow background           | ARRET D'URGENCE               | 1               | ZBY 2130       | 0.002     |

(1) For legends, see pages 60 to 62.

(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).



ZBY 2303

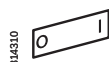


ZBY 2228

## Standard (30 x 40 mm) legend holders with 8 x 27 mm legends (continued)

| Description                                       | Legend                         | Marking                    | Reference    | Weight<br>kg |
|---------------------------------------------------|--------------------------------|----------------------------|--------------|--------------|
| With legend<br>(with English<br>language marking) | Black or red<br>background (1) | AUTO-HAND                  | ZBY 2364     | 0.002        |
|                                                   |                                | AUTO-O-HAND                | ZBY 2385     | 0.002        |
|                                                   |                                | CLOSE                      | ZBY 2314     | 0.002        |
|                                                   |                                | DOWN                       | ZBY 2308     | 0.002        |
|                                                   |                                | FAST                       | ZBY 2328     | 0.002        |
|                                                   |                                | FORWARD                    | ZBY 2305     | 0.002        |
|                                                   |                                | HAND                       | ZBY 2316     | 0.002        |
|                                                   |                                | HAND-OFF-AUTO              | ZBY 2387     | 0.002        |
|                                                   |                                | INCH                       | ZBY 2321     | 0.002        |
|                                                   |                                | LEFT                       | ZBY 2310     | 0.002        |
|                                                   |                                | OFF                        | ZBY 2312     | 0.002        |
|                                                   |                                | OFF-ON                     | ZBY 2367     | 0.002        |
|                                                   |                                | ON                         | ZBY 2311     | 0.002        |
|                                                   |                                | OPEN                       | ZBY 2313     | 0.002        |
|                                                   |                                | POWER ON                   | ZBY 2326     | 0.002        |
|                                                   |                                | RESET (red background)     | ZBY 2323     | 0.002        |
|                                                   |                                | RESET (black background)   | ZBY 2322     | 0.002        |
|                                                   |                                | REVERSE                    | ZBY 2306     | 0.002        |
|                                                   |                                | RIGHT                      | ZBY 2309     | 0.002        |
|                                                   |                                | RUN                        | ZBY 2334     | 0.002        |
|                                                   |                                | SLOW                       | ZBY 2327     | 0.002        |
|                                                   |                                | START                      | ZBY 2303     | 0.002        |
|                                                   |                                | STOP-START                 | ZBY 2366     | 0.002        |
|                                                   |                                | UP                         | ZBY 2307     | 0.002        |
|                                                   | Yellow background              | EMERGENCY STOP             | ZBY 2330     | 0.002        |
| With legend<br>(with German<br>language marking)  | Black or red<br>background (1) | AB                         | ZBY 2208     | 0.002        |
|                                                   |                                | AUF                        | ZBY 2207     | 0.002        |
|                                                   |                                | AUS                        | ZBY 2204     | 0.002        |
|                                                   |                                | AUS-EIN                    | ZBY 2266     | 0.002        |
|                                                   |                                | AUS-IN BETRIEB             | ZBY 2267     | 0.002        |
|                                                   |                                | AUS-RÜCKSTELLUNG           | ZBY 2233     | 0.002        |
|                                                   |                                | AUSSCHALTEN                | ZBY 2232     | 0.002        |
|                                                   |                                | AUTO-HAND                  | ZBY 2364     | 0.002        |
|                                                   |                                | AUTO-O-HAND                | ZBY 2385     | 0.002        |
|                                                   |                                | AUTOZYKL-HAND              | ZBY 2299     | 0.002        |
|                                                   |                                | AUTOZYKL- 1 ZYKL           | ZBY 2298     | 0.002        |
|                                                   |                                | C-P-C-NORMAL               | ZBY 2265     | 0.002        |
|                                                   |                                | EIN                        | ZBY 2203     | 0.002        |
|                                                   |                                | EINSCHALTEN                | ZBY 2231     | 0.002        |
|                                                   |                                | HAND                       | ZBY 2316     | 0.002        |
|                                                   |                                | LANGSAM                    | ZBY 2227     | 0.002        |
|                                                   |                                | LINKS                      | ZBY 2210     | 0.002        |
|                                                   |                                | NOT-AUS (red background)   | ZBY 2230     | 0.002        |
|                                                   |                                | NOT-HALT                   | ZBY 2229     | 0.002        |
|                                                   |                                | ÖFFNEN                     | ZBY 2213     | 0.002        |
|                                                   |                                | RECHTS                     | ZBY 2209     | 0.002        |
|                                                   |                                | RÜCKSTELLUNG               | ZBY 2223     | 0.002        |
|                                                   |                                | SCHLIESSEN                 | ZBY 2214     | 0.002        |
|                                                   |                                | SCHNELL                    | ZBY 2228     | 0.002        |
|                                                   |                                | SPANNUNG EIN               | ZBY 2226     | 0.002        |
|                                                   |                                | STEUERUNG AUS              | ZBY 2212     | 0.002        |
|                                                   |                                | STEUERUNG EIN              | ZBY 2211     | 0.002        |
|                                                   |                                | STÖRUNG (black background) | ZBY 2234     | 0.002        |
|                                                   |                                | STÖRUNG (red background)   | ZBY 2235     | 0.002        |
|                                                   |                                | VOR                        | ZBY 2205     | 0.002        |
|                                                   |                                | VOR-O-ZURÜCK               | ZBY 2284     | 0.002        |
|                                                   |                                | ZURÜCK                     | ZBY 2206     | 0.002        |
|                                                   |                                | ZYKLUS-HAND                | ZBY 2297     | 0.002        |
|                                                   |                                | ZYKLUSSTART                | ZBY 2295     | 0.002        |
|                                                   | Yellow background              | NOT-AUS                    | ZBY 22420001 | 0.002        |

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).



ZBY 02178



ZBY 00104

## 8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34)

| Colour                        | Marking       |                           | Reference | Weight<br>kg |
|-------------------------------|---------------|---------------------------|-----------|--------------|
| Black or red background (1)   | International | O (black background)      | ZBY 02146 | 0.001        |
|                               |               | O (red background)        | ZBY 02931 | 0.001        |
|                               |               | I                         | ZBY 02147 | 0.001        |
|                               |               | II                        | ZBY 02148 | 0.001        |
|                               |               | O-I                       | ZBY 02178 | 0.001        |
|                               |               | I-II                      | ZBY 02179 | 0.001        |
|                               |               | I-O-II                    | ZBY 02186 | 0.001        |
|                               |               | AUTO                      | ZBY 02115 | 0.001        |
|                               |               | STOP                      | ZBY 02304 | 0.001        |
|                               | French        | ARRET (red background)    | ZBY 02104 | 0.001        |
|                               |               | ARRET (black background)  | ZBY 00104 | 0.001        |
|                               |               | ARRET GENERAL             | ZBY 02129 | 0.001        |
|                               |               | ARRET REARMEMENT          | ZBY 02133 | 0.001        |
|                               |               | ARRET-MARCHE              | ZBY 02166 | 0.001        |
|                               |               | ARRIERE                   | ZBY 02106 | 0.001        |
|                               |               | AUTO CYCLE-CYCLE          | ZBY 02198 | 0.001        |
|                               |               | AUTO CYCLE-MAIN           | ZBY 02199 | 0.001        |
|                               |               | AUTO-MAIN                 | ZBY 02164 | 0.001        |
|                               |               | AUTO-O-MAIN               | ZBY 02185 | 0.001        |
|                               |               | AVANT                     | ZBY 02105 | 0.001        |
|                               |               | AVANT-O-ARRIERE           | ZBY 02184 | 0.001        |
|                               |               | C-P-C-NORMAL              | ZBY 02165 | 0.001        |
|                               |               | CYCLE-MAIN                | ZBY 02197 | 0.001        |
|                               |               | DECLenchement             | ZBY 02132 | 0.001        |
|                               |               | DEFAUT (black background) | ZBY 02134 | 0.001        |
|                               |               | DEFAUT (red background)   | ZBY 02135 | 0.001        |
|                               |               | DEPART CYCLE              | ZBY 02195 | 0.001        |
|                               |               | DESCENTE                  | ZBY 02108 | 0.001        |
|                               |               | DROITE                    | ZBY 02109 | 0.001        |
|                               |               | ENCLenchement             | ZBY 02131 | 0.001        |
|                               |               | EN SERVICE                | ZBY 02111 | 0.001        |
| FERMETURE                     |               | ZBY 02114                 | 0.001     |              |
| GAUCHE                        |               | ZBY 02110                 | 0.001     |              |
| HORS SERVICE                  |               | ZBY 02112                 | 0.001     |              |
| HORS-EN                       |               | ZBY 02167                 | 0.001     |              |
| LENT                          |               | ZBY 02127                 | 0.001     |              |
| MAIN                          |               | ZBY 02116                 | 0.001     |              |
| MARCHE                        |               | ZBY 02103                 | 0.001     |              |
| MONTEE                        | ZBY 02107     | 0.001                     |           |              |
| OUVERTURE                     | ZBY 02113     | 0.001                     |           |              |
| PHASE / PHASE                 | ZBY 02196     | 0.001                     |           |              |
| REARMEMENT (red background)   | ZBY 02123     | 0.001                     |           |              |
| REARMEMENT (black background) | ZBY 00123     | 0.001                     |           |              |
| SOUS TENSION                  | ZBY 02126     | 0.001                     |           |              |
| VITE                          | ZBY 02128     | 0.001                     |           |              |
| Yellow background             | French        | ARRET D'URGENCE           | ZBY 02130 | 0.001        |

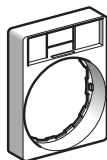
(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

## 8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34) (continued)

| Colour                      | Marking | Reference                  | Weight<br>kg        |
|-----------------------------|---------|----------------------------|---------------------|
| Black or red background (1) | English | AUTO-HAND                  | ZBY 02364 0.001     |
|                             |         | AUTO-O-HAND                | ZBY 02385 0.001     |
|                             |         | CLOSE                      | ZBY 02314 0.001     |
|                             |         | DOWN                       | ZBY 02308 0.001     |
|                             |         | EMERGENCY STOP             | ZBY 02330 0.001     |
|                             |         | FAST                       | ZBY 02328 0.001     |
|                             |         | FORWARD                    | ZBY 02305 0.001     |
|                             |         | HAND                       | ZBY 02316 0.001     |
|                             |         | HAND-OFF-AUTO              | ZBY 02387 0.001     |
|                             |         | INCH                       | ZBY 02321 0.001     |
|                             |         | LEFT                       | ZBY 02310 0.001     |
|                             |         | OFF                        | ZBY 02312 0.001     |
|                             |         | OFF-ON                     | ZBY 02367 0.001     |
|                             |         | ON                         | ZBY 02311 0.001     |
|                             |         | OPEN                       | ZBY 02313 0.001     |
|                             |         | POWER ON                   | ZBY 02326 0.001     |
|                             |         | RESET (red background)     | ZBY 02323 0.001     |
|                             |         | RESET (black background)   | ZBY 02322 0.001     |
|                             |         | REVERSE                    | ZBY 02306 0.001     |
|                             |         | RIGHT                      | ZBY 02309 0.001     |
|                             |         | RUN                        | ZBY 02334 0.001     |
|                             |         | SLOW                       | ZBY 02327 0.001     |
|                             |         | START                      | ZBY 02303 0.001     |
|                             |         | STOP-START                 | ZBY 02366 0.001     |
|                             |         | UP                         | ZBY 02307 0.001     |
|                             | German  | AB                         | ZBY 02208 0.001     |
|                             |         | AUF                        | ZBY 02207 0.001     |
|                             |         | AUS                        | ZBY 02204 0.001     |
|                             |         | AUS-EIN                    | ZBY 02266 0.001     |
|                             |         | AUS-IN BETRIEB             | ZBY 02267 0.001     |
|                             |         | AUS-RÜCKSTELLUNG           | ZBY 02233 0.001     |
|                             |         | AUSSCHALTEN                | ZBY 02232 0.001     |
|                             |         | AUTO-HAND                  | ZBY 02364 0.001     |
|                             |         | AUTO-O-HAND                | ZBY 02385 0.001     |
|                             |         | AUTOZYKL-HAND              | ZBY 02299 0.001     |
|                             |         | AUTOZYKL- 1 ZYKL           | ZBY 02298 0.001     |
|                             |         | C-P-C-NORMAL               | ZBY 02265 0.001     |
|                             |         | EIN                        | ZBY 02203 0.001     |
|                             |         | EINSCHALTEN                | ZBY 02231 0.001     |
|                             |         | HAND                       | ZBY 02316 0.001     |
|                             |         | LANGSAM                    | ZBY 02227 0.001     |
|                             |         | LINKS                      | ZBY 02210 0.001     |
|                             |         | NOT-AUS (red background)   | ZBY 02230 0.001     |
|                             |         | NOT-HALT                   | ZBY 02229 0.001     |
|                             |         | ÖFFNEN                     | ZBY 02213 0.001     |
|                             |         | RECHTS                     | ZBY 02209 0.001     |
|                             |         | RÜCKSTELLUNG               | ZBY 02223 0.001     |
|                             |         | SCHLIESSEN                 | ZBY 02214 0.001     |
|                             |         | SCHNELL                    | ZBY 02228 0.001     |
|                             |         | SPANNUNG EIN               | ZBY 02226 0.001     |
|                             |         | STEUERUNG AUS              | ZBY 02212 0.001     |
|                             |         | STEUERUNG EIN              | ZBY 02211 0.001     |
|                             |         | STÖRUNG (black background) | ZBY 02234 0.001     |
|                             |         | STÖRUNG (red background)   | ZBY 02235 0.001     |
|                             |         | VOR                        | ZBY 02205 0.001     |
|                             |         | VOR-O-ZURÜCK               | ZBY 02284 0.001     |
|                             |         | ZURÜCK                     | ZBY 02206 0.001     |
|                             |         | ZYKLUS-HAND                | ZBY 02297 0.001     |
|                             |         | ZYKLUSSTART                | ZBY 02295 0.001     |
| Yellow background           | English | EMERGENCY STOP             | ZBY 02330 0.001     |
|                             | German  | NOT-AUS                    | ZBY 022420001 0.001 |

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

81.4302



ZBZ 34

81.4303



ZBY 2H101

**30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends**

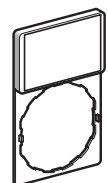
| Description       | Colour                     | Sold in lots of | Unit reference | Weight kg |
|-------------------|----------------------------|-----------------|----------------|-----------|
| Without legend    | —                          | 10              | ZBZ 34         | 0.003     |
| With blank legend | Black or red background    | 10              | ZBY 2H101      | 0.004     |
|                   | White or yellow background | 10              | ZBY 4H101      | 0.004     |

81.4304



ZBZ 33

81.4305

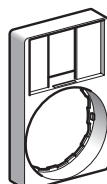


ZBY 6101

**Standard (30 x 50 mm) legend holders for 18 x 27 mm legends**

| Description       | Colour                     | Sold in lots of | Unit reference | Weight kg |
|-------------------|----------------------------|-----------------|----------------|-----------|
| Without legend    | —                          | 10              | ZBZ 33         | 0.001     |
| With blank legend | Black or red background    | 10              | ZBY 6101       | 0.002     |
|                   | White or yellow background | 10              | ZBY 6102       | 0.002     |

81.4306



ZBZ 35

81.4307

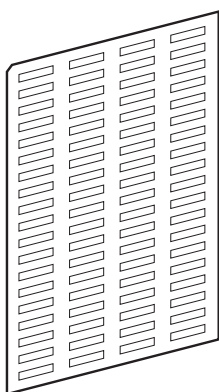


ZBY 6H101

**30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends**

| Description       | Colour                     | Sold in lots of | Unit reference | Weight kg |
|-------------------|----------------------------|-----------------|----------------|-----------|
| Without legend    | —                          | 10              | ZBZ 35         | 0.003     |
| With blank legend | Black or red background    | 10              | ZBY 6H101      | 0.004     |
|                   | White or yellow background | 10              | ZBY 6H102      | 0.004     |

81.4309



ZBY 4100

**Legends for engraving**

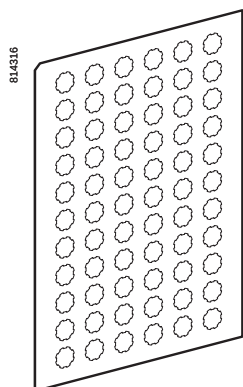
| Description mm | For use with             | Colour                     | Sold in lots of | Unit reference | Weight kg |
|----------------|--------------------------|----------------------------|-----------------|----------------|-----------|
| 8 x 27         | 30 x 40 mm legend holder | Black or red background    | 10              | ZBY 0101       | 0.001     |
|                |                          | White or yellow background | 10              | ZBY 0102       | 0.001     |
| 18 x 27        | 30 x 50 mm legend holder | Black or red background    | 10              | ZBY 5101       | 0.001     |
|                |                          | White or yellow background | 10              | ZBY 5102       | 0.001     |

**Sheets of peel-off legends (with backing board and protective transparent cover)**

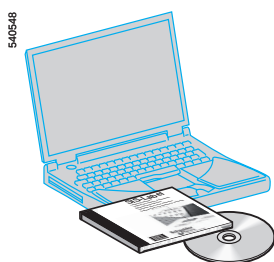
| Description                       | For use with                                  | Sold in lots of | Unit reference | Weight kg |
|-----------------------------------|-----------------------------------------------|-----------------|----------------|-----------|
| Sheet of 76 legends<br>8 x 27 mm  | 30 x 40 mm legend holder<br>ZBZ 32 and ZBZ 34 | 10              | ZBY 4100       | 0.043     |
| Sheet of 40 legends<br>18 x 27 mm | 30 x 50 mm legend holder<br>ZBZ 33 and ZBZ 35 | 10              | ZBY 5100       | 0.044     |

## Legends for XB4 B pushbuttons, illuminated pushbuttons and pilot lights

| Description                                                        | Marking       |          | Sold in lots of | Unit reference | Weight kg |
|--------------------------------------------------------------------|---------------|----------|-----------------|----------------|-----------|
| Sheets of 66 circular peel-off, transparent, self-adhesive legends | Without       |          | 10              | ZBY 1101       | 0.017     |
| Strips of 66 circular peel-off, transparent, self-adhesive legends | International | O        | 10              | ZBY 1146       | 0.017     |
|                                                                    |               | I        | 10              | ZBY 1147       | 0.017     |
|                                                                    |               | II       | 10              | ZBY 1148       | 0.017     |
|                                                                    |               | III      | 10              | ZBY 1149       | 0.017     |
|                                                                    |               | STOP     | 10              | ZBY 1304       | 0.017     |
|                                                                    |               | †        | 10              | ZBY 1912       | 0.017     |
|                                                                    | French        | ARRET    | 10              | ZBY 1104       | 0.017     |
|                                                                    |               | ARRIERE  | 10              | ZBY 1106       | 0.017     |
|                                                                    |               | AUTO     | 10              | ZBY 1115       | 0.017     |
|                                                                    |               | AVANT    | 10              | ZBY 1105       | 0.017     |
|                                                                    |               | DESCENTE | 10              | ZBY 1108       | 0.017     |
|                                                                    |               | MAIN     | 10              | ZBY 1116       | 0.017     |
|                                                                    |               | MARCHE   | 10              | ZBY 1103       | 0.017     |
|                                                                    |               | MONTEE   | 10              | ZBY 1107       | 0.017     |
|                                                                    | English       | HAND     | 10              | ZBY 1316       | 0.017     |
|                                                                    |               | OFF      | 10              | ZBY 1312       | 0.017     |
|                                                                    |               | ON       | 10              | ZBY 1311       | 0.017     |
|                                                                    |               | START    | 10              | ZBY 1303       | 0.017     |
|                                                                    | German        | AB       | 10              | ZBY 1208       | 0.017     |
|                                                                    |               | AUF      | 10              | ZBY 1207       | 0.017     |
|                                                                    |               | AUS      | 10              | ZBY 1204       | 0.017     |
|                                                                    |               | EIN      | 10              | ZBY 1203       | 0.017     |
|                                                                    |               | ZU       | 10              | ZBY 1214       | 0.017     |



ZBY 1101



XBY 2U

## “SIS Label” labelling software

| Application                                                 | For use with                                                        | Reference | Weight kg |
|-------------------------------------------------------------|---------------------------------------------------------------------|-----------|-----------|
| Legend design for English, French, German, Italian, Spanish | ZBY 1101, ZBY 001<br>ZBY 0101 and ZBY 0102<br>ZBY 5101 and ZBY 5102 | XBY 2U    | 0.100     |

## Circular, yellow legends for mushroom head pushbuttons

## Used for “Emergency stop” function

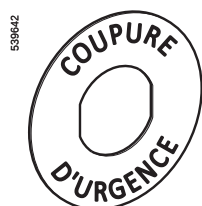
| Diameter mm | Conforming to standards              | Marking on yellow background | Reference | Weight kg |
|-------------|--------------------------------------|------------------------------|-----------|-----------|
| 60          | EN/IEC 60204-1 and EN/ISO 13850:2006 | —                            | ZBY 9140  | 0.004     |
|             |                                      | ARRET D'URGENCE              | ZBY 9130  | 0.004     |
|             |                                      | EMERGENCY STOP               | ZBY 9330  | 0.004     |
|             |                                      | NOT-HALT                     | ZBY 9230  | 0.004     |
|             |                                      | PARADA DE EMERGENCIA         | ZBY 9430  | 0.004     |
|             |                                      | ARRESTO DE EMERGENZA         | ZBY 9630  | 0.004     |
| 90          | EN/IEC 60204-1 and EN/ISO 13850:2006 | —                            | ZBY 8140  | 0.008     |
|             |                                      | ARRET D'URGENCE              | ZBY 8130  | 0.008     |
|             |                                      | EMERGENCY STOP               | ZBY 8330  | 0.008     |
|             |                                      | NOT-HALT                     | ZBY 8230  | 0.008     |
|             |                                      | PARADA DE EMERGENCIA         | ZBY 8430  | 0.008     |
|             |                                      | ARRESTO DE EMERGENZA         | ZBY 8630  | 0.008     |

## Used for “Emergency switching off” function

|    |                |                           |          |       |
|----|----------------|---------------------------|----------|-------|
| 60 | EN/IEC 60204-1 | —                         | ZBY 9101 | 0.004 |
|    |                | COUPURE D'URGENCE         | ZBY 9160 | 0.004 |
|    |                | EMERGENCY SWITCHING OFF   | ZBY 9360 | 0.004 |
|    |                | NOT-AUS                   | ZBY 9260 | 0.004 |
|    |                | DESCONEXION DE EMERGENCIA | ZBY 9460 | 0.004 |
|    |                | INTERRUZIONE DI EMERGENZA | ZBY 9660 | 0.004 |
| 90 | EN/IEC 60204-1 | —                         | ZBY 8101 | 0.008 |
|    |                | COUPURE D'URGENCE         | ZBY 8160 | 0.008 |
|    |                | EMERGENCY SWITCHING OFF   | ZBY 8360 | 0.008 |
|    |                | NOT-AUS                   | ZBY 8260 | 0.008 |
|    |                | DESCONEXION DE EMERGENCIA | ZBY 8460 | 0.008 |
|    |                | INTERRUZIONE DI EMERGENZA | ZBY 8660 | 0.008 |



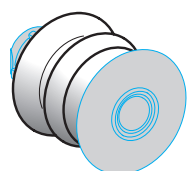
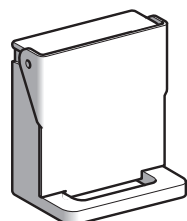
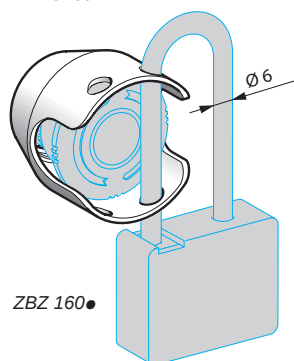
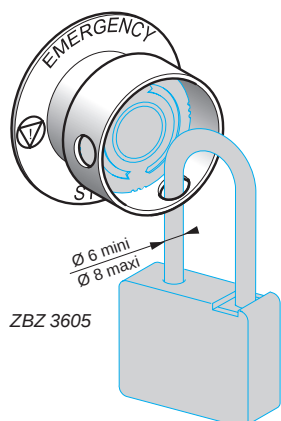
ZBY 9130



ZBY 9160

New

General :  
page 6Characteristics :  
page 14Dimensions :  
page 68



#### Accessories for mushroom head pushbuttons

Used for "Emergency stop" (1) or "Emergency switching off" function (2)

| Description                                       | For use with                                                                                                                                                                          | Colour | Reference       | Weight kg |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-----------|
| <b>Padlocking kit</b><br>(3) (4)<br>(padlockable) | Emergency stop (1) and<br>Emergency switching off<br>function (2),<br>only with the following<br>Ø 40 trigger action pushbuttons:<br>XB4 BS844●, XB4 BS9445,<br>ZB4 BS844, ZB4 BS944. | Yellow | <b>ZBZ 3605</b> | 0.045     |

| Description                                                                                      | Marking                 | Colour | Reference        | Weight kg |
|--------------------------------------------------------------------------------------------------|-------------------------|--------|------------------|-----------|
| <b>Ø 60 mm legend for padlocking device ZBZ 3605</b><br>For Emergency stop function (1)          | Without                 | Yellow | <b>ZBY 9140T</b> | 0.004     |
|                                                                                                  | ARRET D'URGENCE         | Yellow | <b>ZBY 9130T</b> | 0.004     |
|                                                                                                  | EMERGENCY STOP          | Yellow | <b>ZBY 9330T</b> | 0.004     |
|                                                                                                  | NOT-HALT                | Yellow | <b>ZBY 9230T</b> | 0.004     |
| <b>Ø 60 mm legend for padlocking device ZBZ 3605</b><br>For Emergency switching off function (2) | Without                 | Yellow | <b>ZBY 9101T</b> | 0.004     |
|                                                                                                  | COUPURE D'URGENCE       | Yellow | <b>ZBY 9160T</b> | 0.004     |
|                                                                                                  | EMERGENCY SWITCHING OFF | Yellow | <b>ZBY 9360T</b> | 0.004     |
|                                                                                                  | NOT-AUS                 | Yellow | <b>ZBY 9260T</b> | 0.004     |

|                                        |                                                                                                                                                                         |                 |                 |       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-------|
| <b>Metal guards</b><br>Padlockable (4) | Emergency stop function (1),<br>only with the following Ø 40<br>trigger action pushbuttons;<br>XB4 BT845, XB4 BS844●,<br>XB4 BS9445, ZB4 BT84,<br>ZB4 BS844, ZB4 BS944. | Chromium plated | <b>ZBZ 1600</b> | 0.046 |
|                                        |                                                                                                                                                                         | Black           | <b>ZBZ 1602</b> | 0.046 |
|                                        |                                                                                                                                                                         | Red             | <b>ZBZ 1604</b> | 0.046 |
|                                        |                                                                                                                                                                         | Blue            | <b>ZBZ 1606</b> | 0.046 |

#### Other accessories

| Description              | For use with                       | Colour | Reference       | Weight kg |
|--------------------------|------------------------------------|--------|-----------------|-----------|
| <b>Plastic guard</b>     | Selector switches and key switches | Black  | <b>ZBZ 2102</b> | 0.005     |
| <b>Padlockable flaps</b> | Pushbuttons                        | Black  | <b>ZB4 BZ62</b> | 0.076     |
|                          |                                    | Red    | <b>ZB4 BZ64</b> | 0.076     |
|                          |                                    | Yellow | <b>ZB4 BZ65</b> | 0.076     |
|                          |                                    | Blue   | <b>ZB4 BZ66</b> | 0.076     |

| Description                                                 | Application                                                           | Material | Colour | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------------------------------|-----------------------------------------------------------------------|----------|--------|-----------------|----------------|-----------|
| <b>Bellows seals for harsh environments (IP 69K)</b><br>(5) | Environments subject to humidity, dust, high-pressure cleaning etc... | Silicone | Red    | 2               | <b>ZBZ 48</b>  | 0.009     |
|                                                             |                                                                       |          | Black  | 2               | <b>ZBZ 28</b>  | 0.009     |
|                                                             |                                                                       | EPDM     | Yellow | 2               | <b>ZBZ 58</b>  | 0.009     |

(1) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850:2006.

(2) Ensures conformity with standard EN/IEC 60204-1.

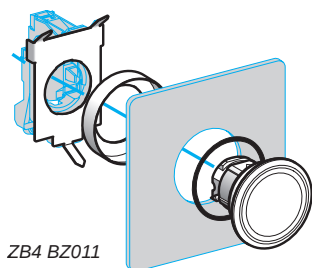
(3) Standard circular legends are not compatible with this product. Use special legends ZBY 9●●●T.

(4) No isolation function is possible when this guard is fitted.

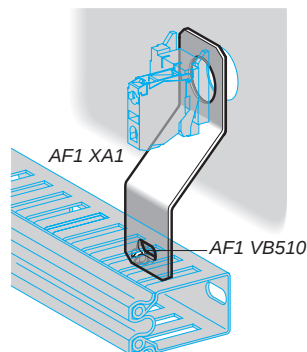
(5) Only when mounted on control stations. Use special legends ZBY 9●●●T.



ZB5 SZ3



ZB4 BZ011



## Other accessories (continued)

| Description                                                | For use with                                         | Colour          | Sold in lots of | Unit reference | Weight kg |
|------------------------------------------------------------|------------------------------------------------------|-----------------|-----------------|----------------|-----------|
| Metal circular blanking plug (1)                           | Ø 22 control and signalling units                    | Chromium plated | 10              | ZB4 SZ3        | 0.023     |
|                                                            |                                                      | Black           | 10              | ZB4 SZ37       | 0.023     |
| Black plastic circular blanking plug (with fixing nut)     | Ø 22 control and signalling units                    | Black           | 10              | ZB5 SZ3        | 0.009     |
| Liquid spray protective washer to be fitted under the head | Ø 22 control and signalling units                    | Chromium plated | 50              | ZB4 BZ007      | 0.010     |
|                                                            |                                                      | Black           | 50              | ZB4 BZ0077     | 0.010     |
| Flush mounting kit                                         | Pushbutton ZB4 B● with head mounted flush with bezel | Chromium plated |                 | ZB4 BZ011      | 0.007     |
|                                                            |                                                      | Black           |                 | ZB4 BZ0117     | 0.007     |

| Description                                | Application                                      | Sold in lots of | Unit reference | Weight kg |
|--------------------------------------------|--------------------------------------------------|-----------------|----------------|-----------|
| Cable ducting support                      | Fixing beneath head                              | 10              | AF1 XA1        | 0.030     |
| M5 x 10 screw, with hexagonal slotted head | For fixing cable ducting                         | 100             | AF1 VB510      | 0.003     |
| Support                                    | For XB 4B pushbuttons, switches and pilot lights | 1               | DX1 AP52       | 0.160     |

(1) Body/fixing collar ZB4 BZ009 required for mounting must be ordered separately, see page 47.



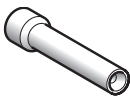
DL1 CJO●●●



DL1 CE●●●



DL1 CF●●●



XBF X13



ZBZ 8

## Bulbs with BA 9s base fitting and associated accessories

| Description              | Characteristics                          | Colour | Sold in lots of | Reference unit | Weight kg |
|--------------------------|------------------------------------------|--------|-----------------|----------------|-----------|
| LEDs                     | ~ 24 V                                   | White  | 1               | DL1 CJO241     | 0.002     |
|                          |                                          | Green  | 1               | DL1 CJO243     | 0.002     |
|                          |                                          | Red    | 1               | DL1 CJO244     | 0.002     |
|                          |                                          | Orange | 1               | DL1 CJO245     | 0.002     |
|                          |                                          | Blue   | 1               | DL1 CJO246     | 0.002     |
|                          | ~ 48 V                                   | Green  | 1               | DL1 CJO483     | 0.002     |
|                          |                                          | Red    | 1               | DL1 CJO484     | 0.002     |
|                          |                                          | Orange | 1               | DL1 CJO485     | 0.002     |
|                          | 6 V - 1.2 W                              | White  | 1               | DL1 CD0061     | 0.002     |
|                          |                                          | Green  | 1               | DL1 CD0063     | 0.002     |
|                          |                                          | Red    | 1               | DL1 CD0064     | 0.002     |
|                          |                                          | Orange | 1               | DL1 CD0065     | 0.002     |
|                          |                                          | Blue   | 1               | DL1 CD0066     | 0.002     |
| Incandescent bulbs       | 6 V - 1.2 W                              | —      | 10              | DL1 CB006      | 0.002     |
|                          | 24 V - 2 W                               | —      | 10              | DL1 CE024      | 0.002     |
|                          | 120...130 V<br>2.4 W                     | —      | 10              | DL1 CE130      | 0.002     |
| Neon bulbs               | 120...130 V                              | —      | 10              | DL1 CF110      | 0.002     |
|                          | 230...240 V                              | —      | 10              | DL1 CF220      | 0.002     |
| Bulb extractor           | —                                        | —      | 1               | XBF X13        | 0.005     |
| Lens cap tightening tool | Illuminated pushbuttons, with flush push | —      | 1               | ZBZ 8          | 0.009     |

## Replacement keys

| Description                                                         | Key number | Reference | Weight<br>kg |
|---------------------------------------------------------------------|------------|-----------|--------------|
| <b>For latching mushroom head pushbuttons and selector switches</b> |            |           |              |
| Sets of 2 keys                                                      | 455        | ZBG 455   | 0.013        |
|                                                                     | 421E       | ZBG 421E  | 0.014        |
|                                                                     | 458A       | ZBG 458A  | 0.014        |
|                                                                     | 520E       | ZBG 520E  | 0.014        |
|                                                                     | 3131A      | ZBG 3131A | 0.014        |
|                                                                     | 4A185      | ZBD A185  | 0.014        |
|                                                                     | LU1        | ZBD LU1   | 0.014        |
|                                                                     | LU2        | ZBD LU2   | 0.014        |
|                                                                     | LU3        | ZBD LU3   | 0.014        |
|                                                                     | LU4        | ZBD LU4   | 0.014        |
|                                                                     | LU5        | ZBD LU5   | 0.014        |
|                                                                     | LU6        | ZBD LU6   | 0.014        |
|                                                                     | LU7        | ZBD LU7   | 0.014        |
|                                                                     | LU8        | ZBD LU8   | 0.014        |
|                                                                     | LU9        | ZBD LU9   | 0.014        |
|                                                                     | LU10       | ZBD LU10  | 0.014        |
|                                                                     | LU11       | ZBD LU11  | 0.014        |
|                                                                     | LU12       | ZBD LU12  | 0.014        |
|                                                                     | LU13       | ZBD LU13  | 0.014        |
|                                                                     | LU14       | ZBD LU14  | 0.014        |
|                                                                     | 8D1        | ZBD 8D1   | 0.014        |

## For booted selector switches

|                                                                     |       |            |   |
|---------------------------------------------------------------------|-------|------------|---|
| Sets of 2 keys,<br>one of which<br>supplied booted<br>(rubber boot) | 455   | ZBG 455P   | — |
|                                                                     | 421E  | ZBG 421EP  | — |
|                                                                     | 458A  | ZBG 458AP  | — |
|                                                                     | 520E  | ZBG 520EP  | — |
|                                                                     | 3131A | ZBG 3131AP | — |

## Accessory for key switches (1)

| Description                     | Function                                                  | Reference | Weight<br>kg |
|---------------------------------|-----------------------------------------------------------|-----------|--------------|
| Keyhole cover<br>(rubber cover) | Protection of lock barrel when<br>no key inserted in lock | ZBG P     | 0.005        |

## Boot for standard handle

| Description                 | For use with | Sold in<br>lots of | Unit<br>reference | Weight<br>kg |
|-----------------------------|--------------|--------------------|-------------------|--------------|
| Boot for<br>standard handle | ZB4 BD●●     | 5                  | ZBD D2            | 0.005        |

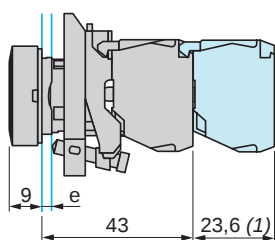
(1) Not compatible with products with key TEC10.



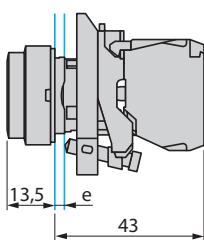
ZBG 455P

##### Pushbuttons, spring return

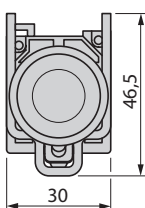
XB4 BA●●



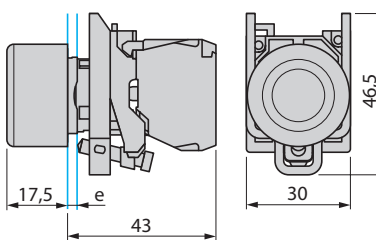
XB4 BL●●



Common face view



XB4 BP●●



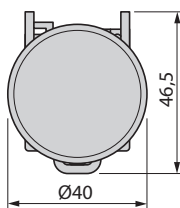
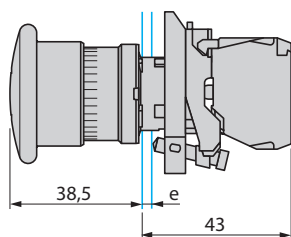
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

##### Mushroom head pushbuttons, spring return

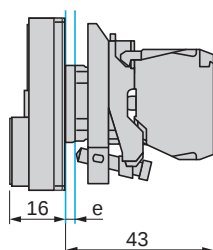
XB4 BC21



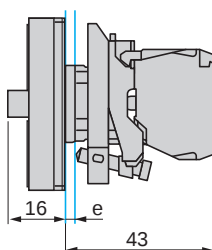
e: clamping thickness: 1 to 6 mm

##### Multiple-headed pushbuttons (double or triple), spring return

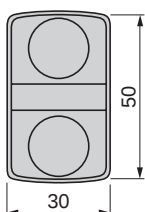
XB4 BL73415, XB4 BW73731●5



XB4 BA731327, XB4 BA711237



Common face view

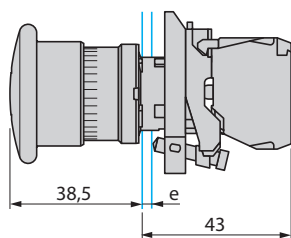


e: clamping thickness: 1 to 6 mm

##### Emergency stop mushroom head pushbuttons, trigger action and mechanical latching

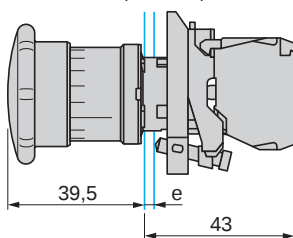
Push-pull

XB4 BT845



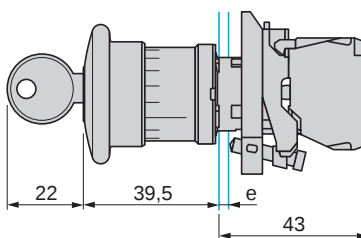
Turn to release

XB4 BS84441, BS8444, BS8445

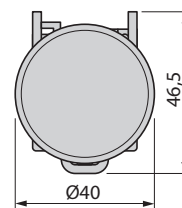


Key release

XB4 BS9445



Common face view



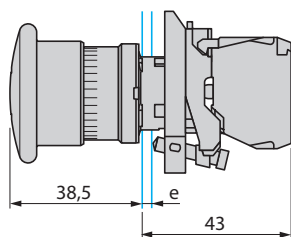
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

##### Emergency switching off mushroom head pushbuttons, mechanical latching

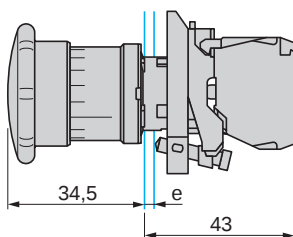
Push-pull

XB4 BT42



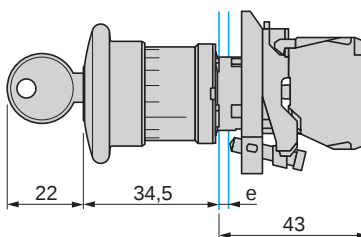
Turn to release

XB4BS542

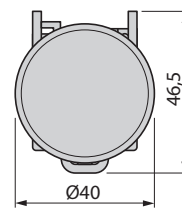


Key release

XB4 BS142



Common face view



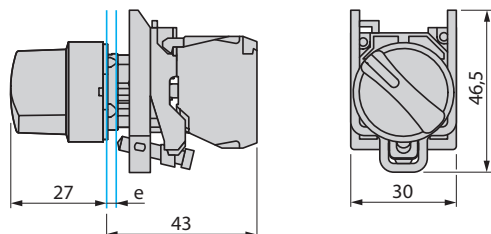
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

## Selector switches

### Standard handle operator

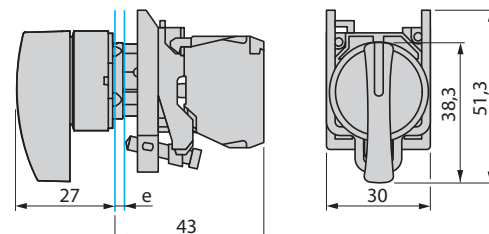
XB4 BD●●



e: clamping thickness: 1 to 6 mm

### Long handle operator

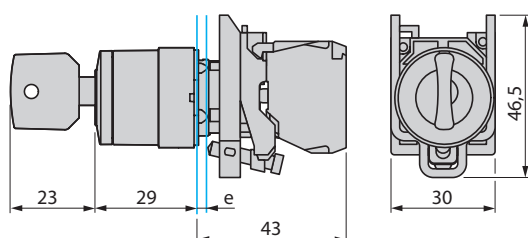
XB4 BJ●●



e: clamping thickness: 1 to 6 mm

## Key switches

XB4 BG●●

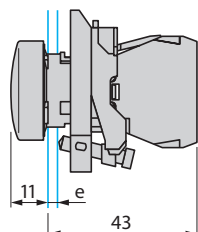


e: clamping thickness: 1 to 6 mm

## Pilot lights

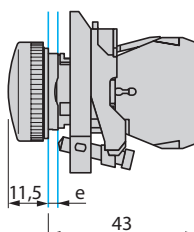
## Integral LED

XB4 BVB●, BVG●, BVM●



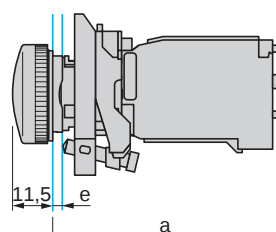
## Direct supply

XB4 BV6●

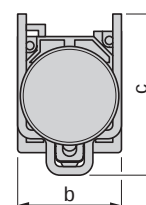


## Via integral transformer

XB4 BV3●, BV4●



Common face view



|           | a    | b  | c    |
|-----------|------|----|------|
| XB4 BV●●  | 66   | 30 | 46,5 |
| XB4 BV5B● | 89,6 | 40 | 46,5 |

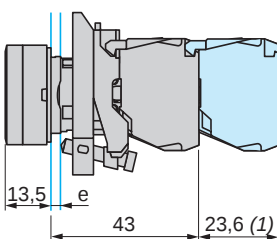
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

## Illuminated pushbuttons, spring return

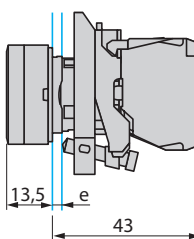
## Integral LED

XB4 BWB3●●5



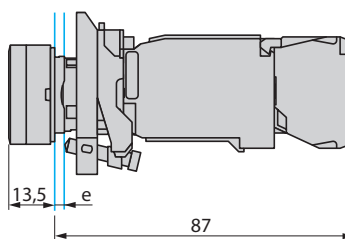
## Direct supply

XB4 BW3●65

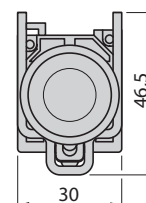


## Via integral transformer

XB4 BW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

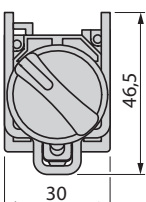
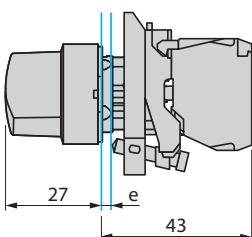
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact

## Illuminated selector switches

## Integral LED

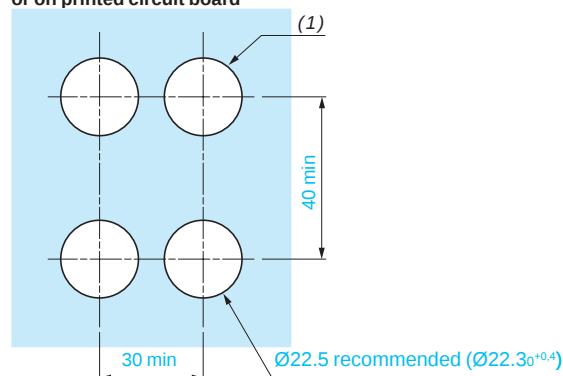
XB4 BK12●●5



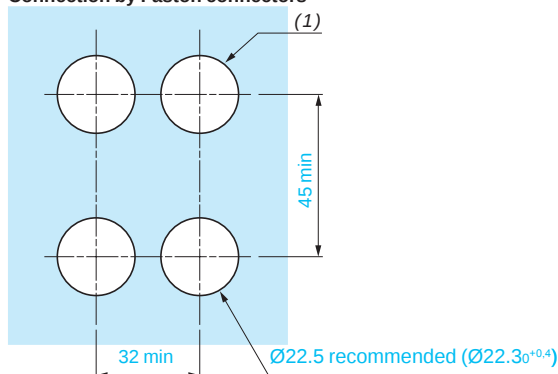
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

## Panel cut-out for pushbuttons, switches and pilot lights (finished holes, ready for installation)

Connection by screw clamp terminals or plug-in connectors  
or on printed circuit board


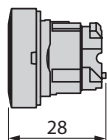
Connection by Faston connectors



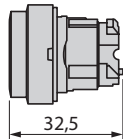
(1) Diameter on finished panel or support.

## Heads for spring return pushbuttons

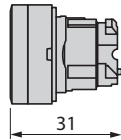
ZB4 BA●, ZB4  
BA●●ZB4 BA●8



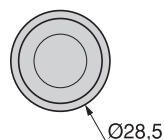
ZB4 BL●, ZB4 BL●●



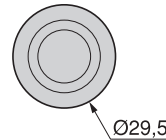
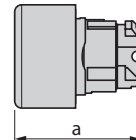
ZB4 BA●4, ZB4 BA●6



Common face view



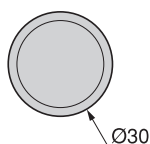
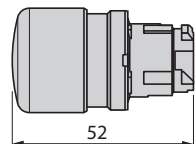
ZB4 BP●, ZB4 BP●S, ZB4 BP●83, ZB4 BP●



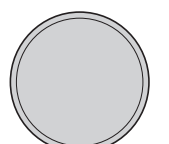
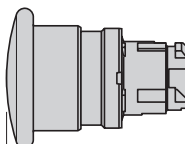
| ZB4   | a    |
|-------|------|
| BP●   | 36.5 |
| BP●S  | 33   |
| BP●83 | 32   |
| BP●   | 35   |

## Mushroom heads for spring return pushbuttons

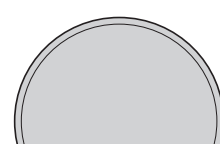
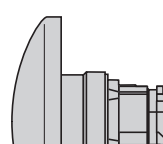
ZB4 BC●4



ZB4 BC●, ZB4 BR●



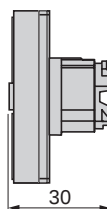
ZB4 BR●16



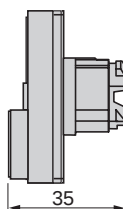
| ZB4 | Ø  |
|-----|----|
| BC● | 40 |
| BR● | 60 |

## Heads for double-headed, spring return pushbuttons

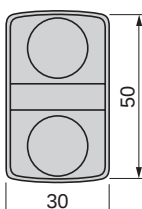
ZB4 BA712●,  
ZB4 BA734●,  
ZB4 BA79



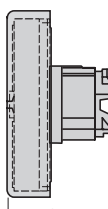
ZB4 BL734●



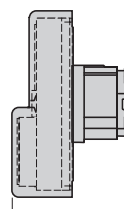
Common face view



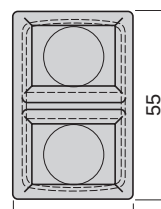
ZB4 BA712●,  
ZB4 BA734●,  
ZB4 BA79  
+ boot ZBA708



ZB4 BL734●  
+ boot ZBA710

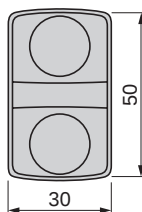
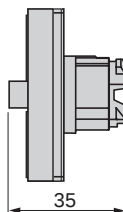


Common face view

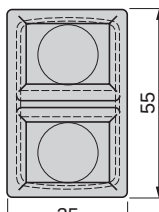
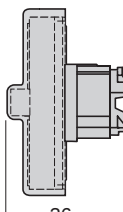


## Heads for triple-headed, spring return pushbuttons

ZB4 BA7313●, ZB4 BA711●●,  
ZB4 BA72124, ZB4 BA791

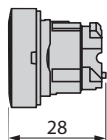


ZB4 BA7313●,  
ZB4 BA711●●,  
ZB4 BA72124,  
ZB4 BA791  
+ boot ZBA709

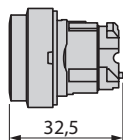


## Heads for "push-push to release" pushbuttons

ZB4 BH0●



ZB4 BH●



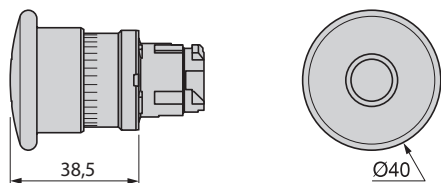
Common face view



## Mushroom heads for Emergency stop, trigger action and mechanical latching pushbuttons

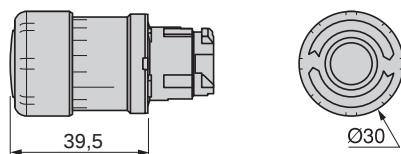
### "Push-pull"

ZB4 BT84

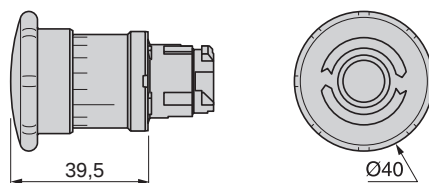


### Turn to release

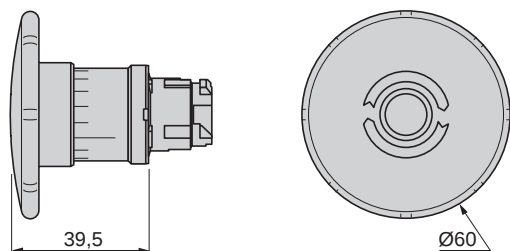
ZB4 BS834



ZB4 BS844

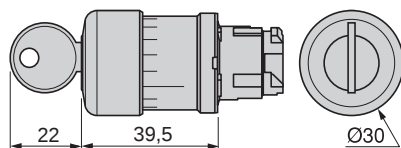


ZB4 BS864

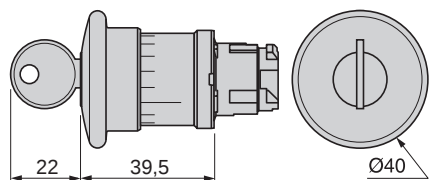


### Key release

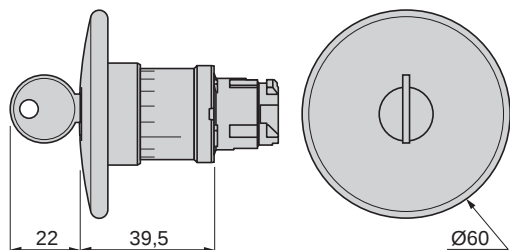
ZB4 BS934



ZB4 BS944



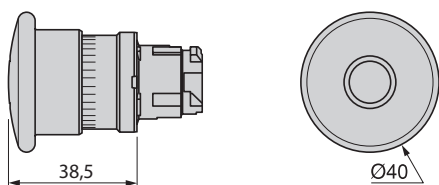
ZB4 BS964



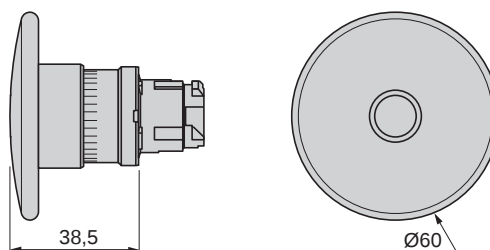
## Mushroom heads for Emergency switching off, mechanical latching pushbuttons

### Push-pull

ZB4 BT4

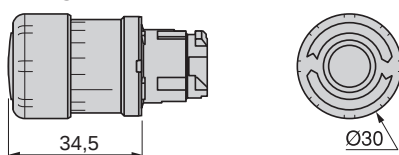


ZB4 BX4

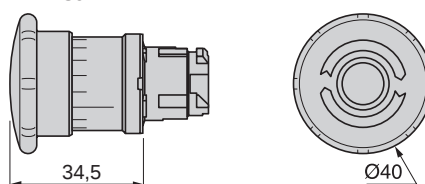


### Turn to release

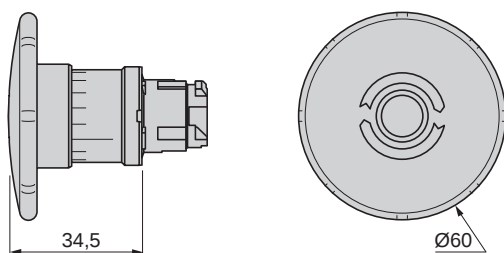
ZB4 BS44



ZB4 BS54

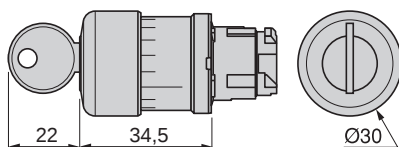


ZB4 BS64

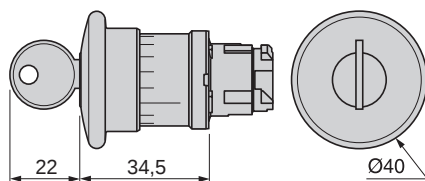


### Key release

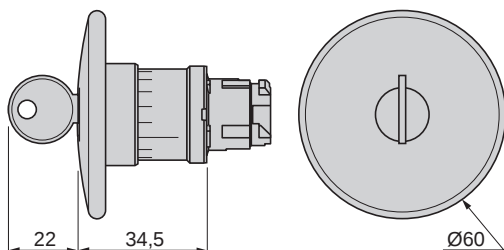
ZB4 BS74



ZB4 BS14



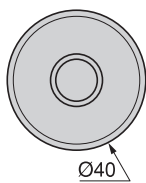
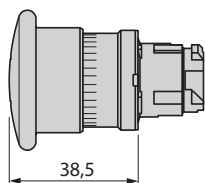
ZB4 BS24



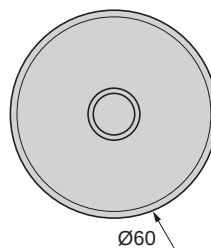
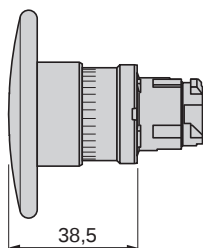
## Mushroom heads for latching pushbuttons (1)

### Push-pull

ZB4 BT2

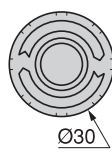
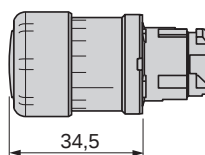


ZB4 BX2

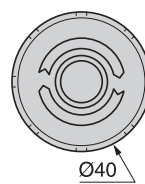
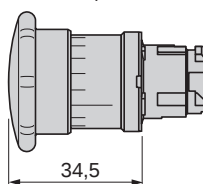


### Turn to release

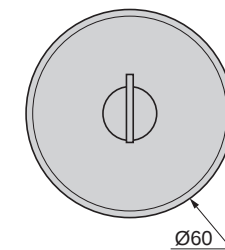
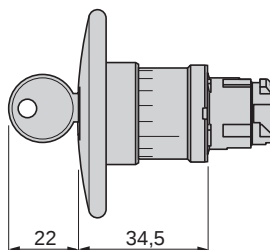
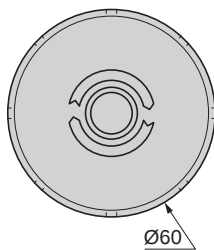
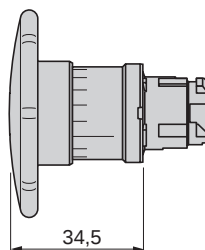
ZB4 BS42



ZB4 BS52, ZB4 BS55

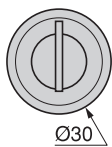
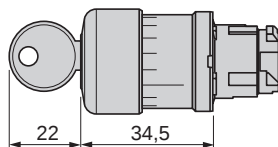


ZB4 BS62

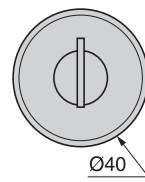
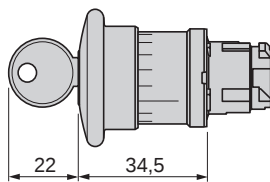


### Key release

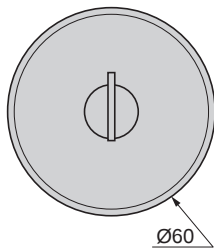
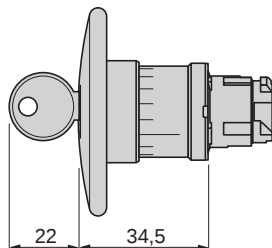
ZB4 BS72



ZB4 BS12



ZB4 BS22

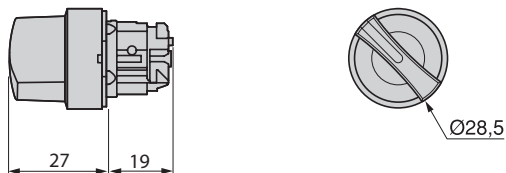


(1) Red mushroom heads for Emergency stop and Emergency switching off, latching pushbuttons: see pages 72 and 73.

## Heads for selector switches

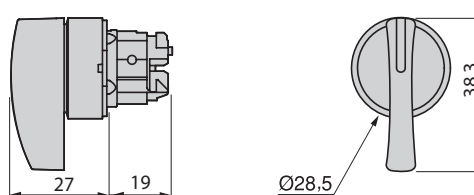
### Standard handle operator

ZB4 BD●, ZB4 BD0●M



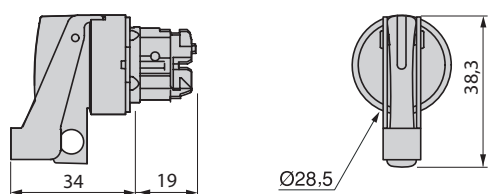
### Long handle operator

ZB4 BJ●, ZB4 BD0●M



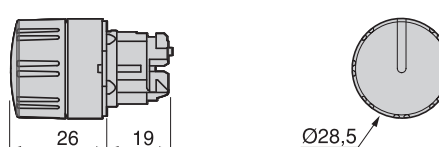
### Padlockable long handle operator (6.35 mm shank max.)

ZB4 BJ●9●



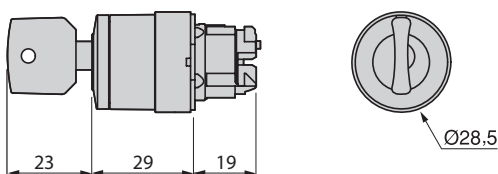
### Black knurled knob

ZB4 BD●9



## Key switches

ZB4 BG●, ZB4 BG0●, ZB4 BG0●M



## Heads for toggle switches

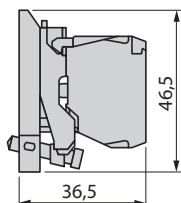
ZB4 BD●8



## Bodies for pushbuttons and switches

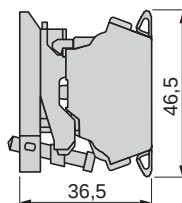
### Screw clamp terminal connections

ZB4 BZ10●, ZB4 BZ141



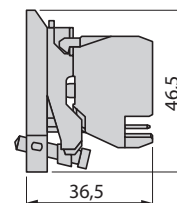
### Spring terminal connections

ZB4 BZ10●5



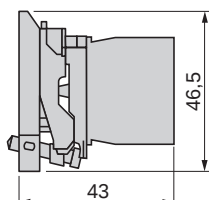
### Plug-in connector

ZB4 BZ10●4, ZB4 BZ1414



## High power switching with screw clamp terminal connections

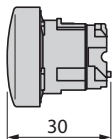
ZBE 50● block + ZB4 BZ009 body



## Heads for pilot lights, with light source

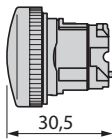
### Integral LED

ZB4 BV0●3, ZB4 BV0●3S

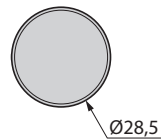


### Incandescent, neon or LED

ZB4 BV0●, ZB4 BV0●S



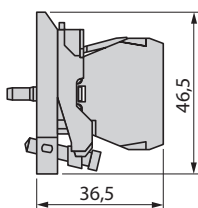
Common face view



## Bodies for pilot lights, screw clamp terminal connections

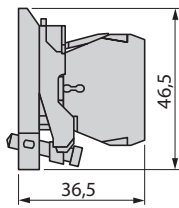
### Integral LED

ZB4 BV●●



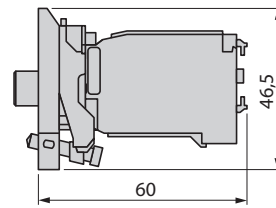
### Direct supply, for BA 9s bulb

ZB4 BV6



### Via integral transformer, for BA 9s bulb

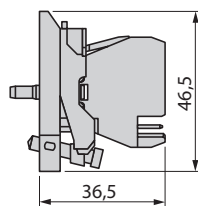
ZB4 BV●, ZB4 BV●D●



## Bodies for pilot lights, plug-in connector

### Integral LED

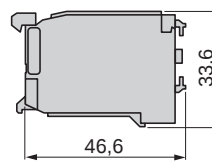
ZB4 BV●●4



## Transformer blocks

### For 24 V light blocks with integral LED

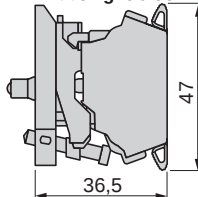
ZBV 5B, ZBV 8B, ZBV 9B



## Light blocks + body for pilot lights, spring terminal connections

### Integral LED

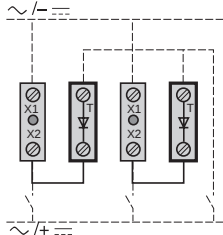
ZBV ●●5 light block + ZB4 BZ009 body



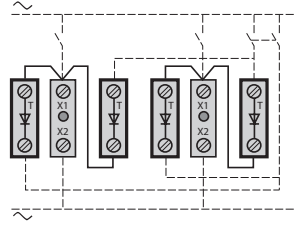
## Connections

### Blocks for "test light" function

ZBZ G156



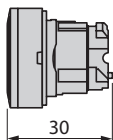
ZBZ M156



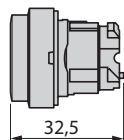
## Heads for spring return illuminated pushbuttons, for light source types

### LED

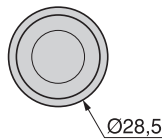
ZB4 BW3●3, ZB4 BW3●3S  
ZB4 BW5●3, ZB4 BA●8



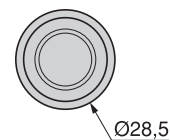
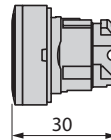
ZB4 BW1●3, ZB4 BL●8



Common face view

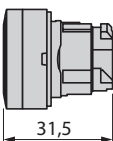


ZB4 BW9●3

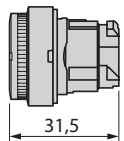


### Incandescent or neon

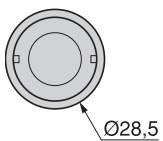
ZB4 BW3●3, ZB4 BW3●S



ZB4 BW1●

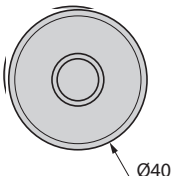
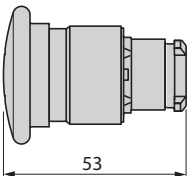


Common face view



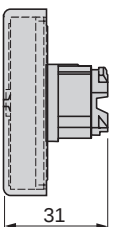
## Heads for Ø 40 mm mushroom head illuminated pushbuttons with LED

ZB4 BW4●3, ZB4 BW6●3

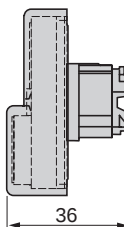


## Heads for double-headed pushbuttons + pilot light

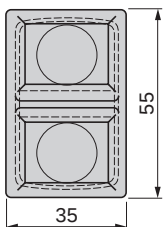
ZB4 BW7A374●,  
ZB4 BW7A17●●,  
ZB4 BW7A9



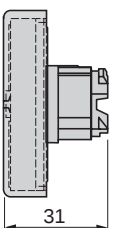
ZB4 BW7L374●



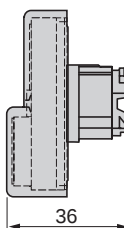
Common face view



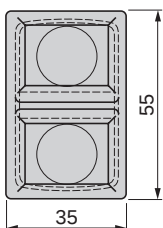
ZB4 BW7A374●,  
ZB4 BW7A17●●,  
ZB4 BW7A9  
+ boot ZBA 708



ZB4 BW7L374●  
+ boot ZBA 710

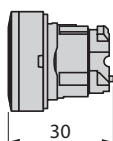


Common face view

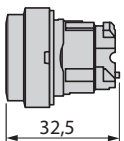


## Heads for illuminated "push-push to release" pushbuttons

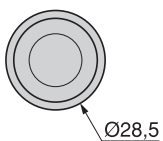
ZB4 BH0●3



ZB4 BH●3

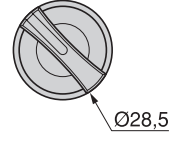
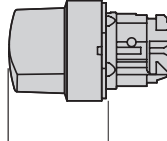


Common face view



## Heads for illuminated selector switches with standard handle

ZB4 BK1●●●3

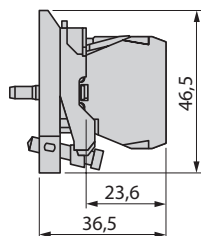


### Bodies for illuminated pushbuttons and switches

#### Screw clamp terminal connections

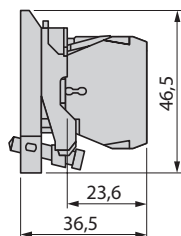
##### Integral LED

ZB4 BW0●●●



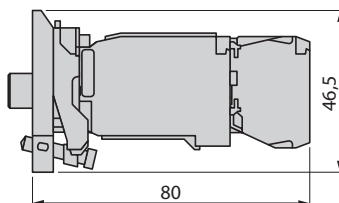
##### Direct supply, BA 9s bulb

ZB4 BW06●



##### Via integral transformer, BA 9s bulb

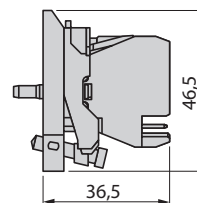
ZB4 BW0●●, BW0●D●●



#### Plug-in connector

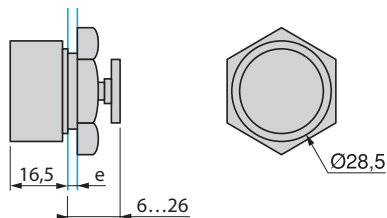
##### Integral LED

ZB4 BW0●●●4

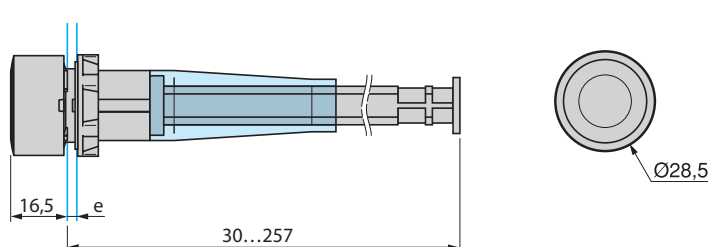


### Manual overload reset buttons

XB4 BA8●●



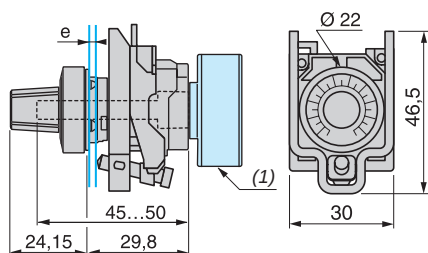
XB4 BA9●●



e: panel thickness 1 to 6 mm

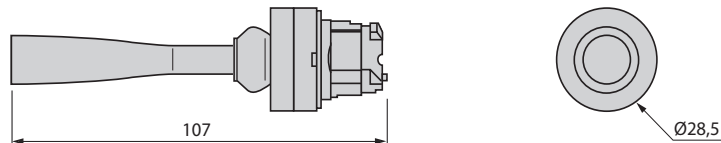
### Heads + mounting base for potentiometer

ZB4 BD9●2



### Wobblestick head

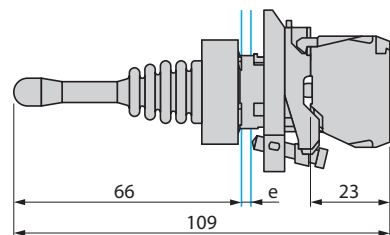
ZB4 BB●



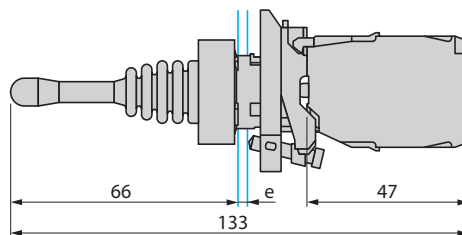
(1) Potentiometer not included.

### Joystick controllers

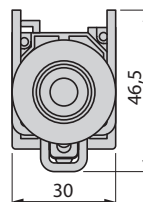
XD4 PA●2



XD4 PA●4



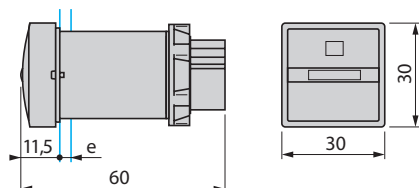
Common face view



e: panel thickness 1 to 6 mm

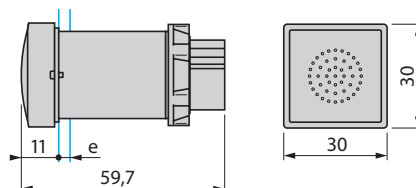
### Hour counters

XB5 DS●



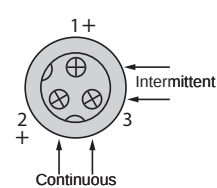
### Annunciators

XB5 KS●



### Cabling

XB5 KS●

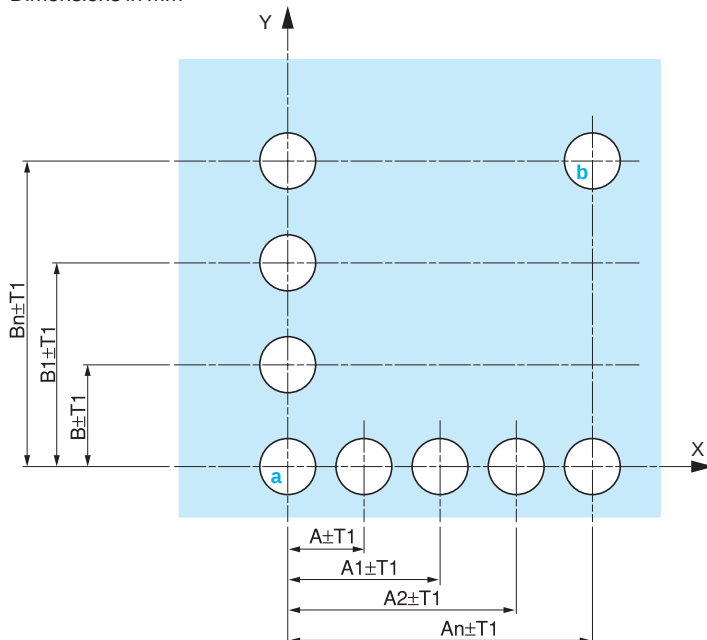


e: panel thickness 1 to 6 mm

#### Pushbuttons, switches and pilot lights for printed circuit board connection

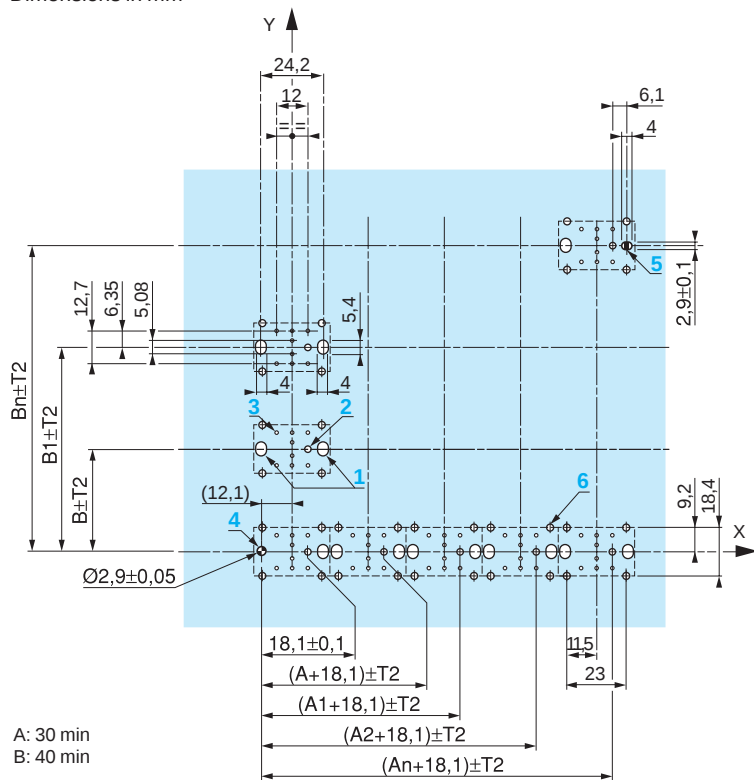
##### Panel cut-outs (viewed from installer's side)

Dimensions in mm



##### Printed circuit board cut-outs (viewed from electrical block side)

Dimensions in mm



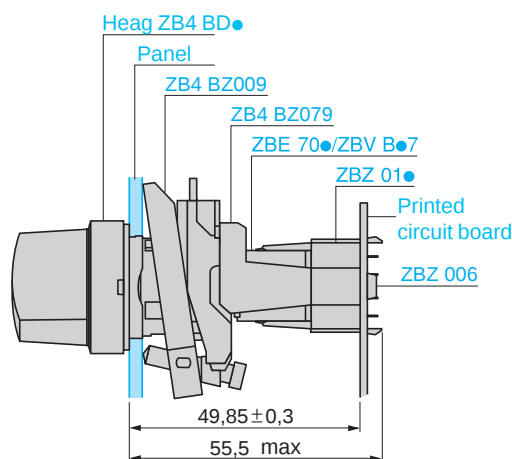
##### General tolerances of the panel and printed circuit board

The cumulative tolerance must not exceed 0.3 mm:  $T1 + T2 = 0.3 \text{ mm max.}$

##### ■ Installation precautions:

- Minimum thickness of circuit board: 1.6 mm.
- Cut-out diameter:  $22.4 \text{ mm} \pm 0.1 \text{ mm}$ .
- Orientation of body/fixing collar ZB4 BZ009:  $\pm 2^\circ 30'$  (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
  - every 90 mm horizontally (X), and 120 mm vertically (Y).
  - with each selector switch head (ZB4 BD●, ZB4 BJ●, ZB4 BG●).

The fixing centres marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.



##### ■ Mounting of adapter (socket) ZBZ 01●:

- 1 2 elongated holes for ZBZ 006 screw access.
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05$  for centring adapter ZBZ 01●.
- 3  $8 \times \varnothing 1.2 \text{ mm}$  holes.
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05$ , for aligning the printed circuit board (with cut-out marked **a**).
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**).
- 6 4 holes  $\varnothing 2.4 \text{ mm}$  for clipping in adapter ZBZ 01●.

Dimensions  $An + 18.1$  relate to the  $\varnothing 2.4 \text{ mm} \pm 0.05$  holes for centring adapter ZBZ 01●.

# Control and signalling units Ø 22

Harmony® XB5, plastic

Pushbuttons, switches and pilot lights

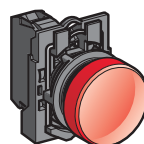
## Description

The Ø 22 range of plastic (double insulated) control and signalling units comprises:

### Complete units, XB5 A

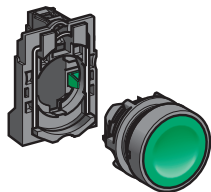


Pushbuttons and switches

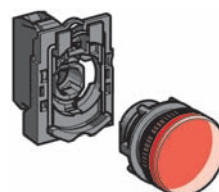


Pilot lights

### Sub-assemblies, ZB5 A

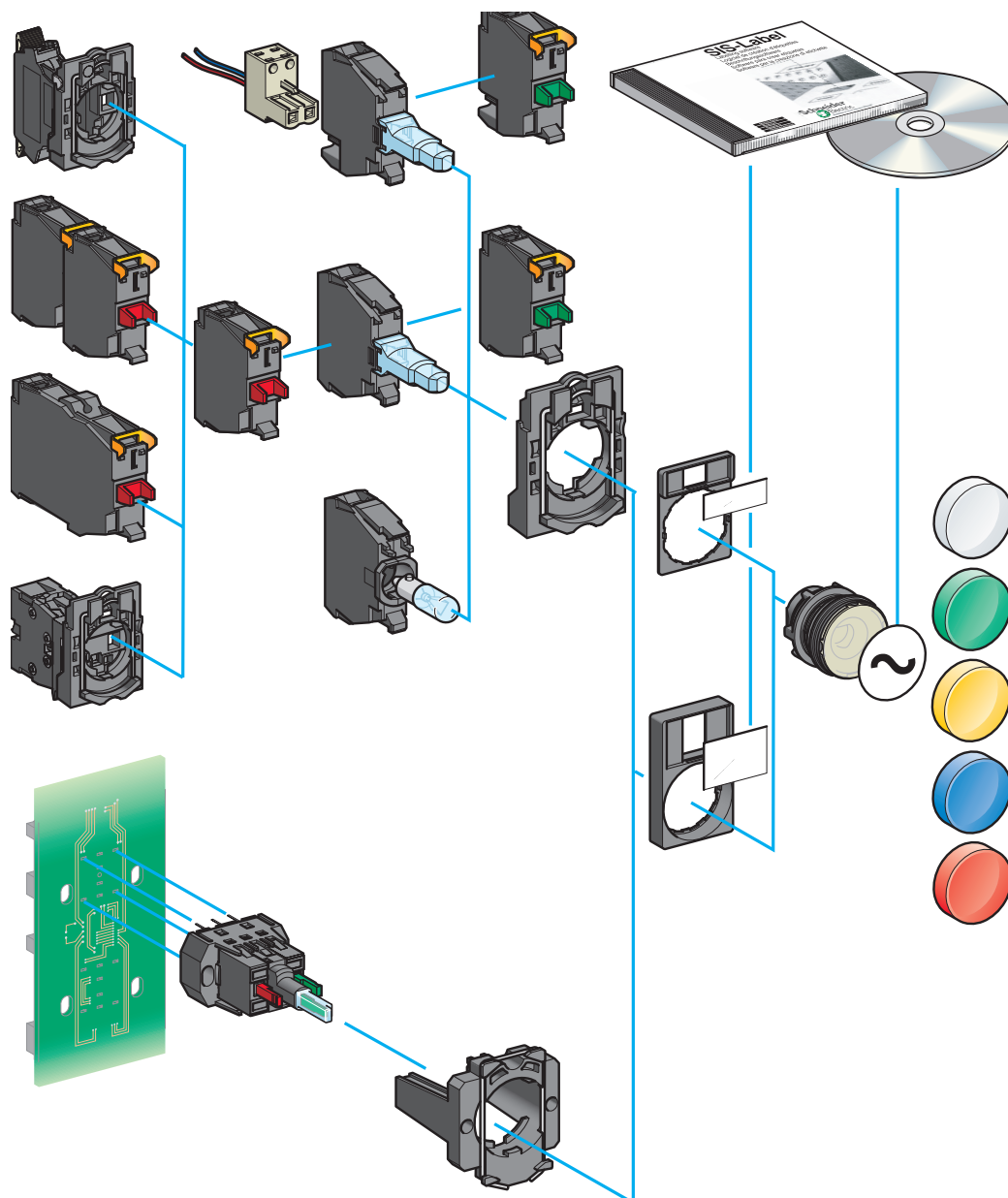


Pushbuttons and switches:  
body + head sub-assemblies



Pilot lights:  
body + head sub-assemblies

### ZB component parts and accessories



## Schematic library

## Contact functions (pushbuttons, Emergency stop and Emergency switching off pushbuttons)

|                                                                                                   |                                                                              |                                                                                        |                                                                                        |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                                                                                   |                                                                              |                                                                                        |                                                                                        |
| Pushbutton<br>N/O contact                                                                         | Pushbutton<br>N/C contact                                                    | Mushroom head spring return<br>N/O contact                                             | Emergency switching off<br>mushroom head pushbutton -<br>Push-pull N/C contact         |
|                                                                                                   |                                                                              |                                                                                        |                                                                                        |
| Emergency stop trigger<br>action mushroom head - Push-pull<br>N/O + N/C contacts                  | Emergency switching off<br>mushroom head -<br>Turn to release<br>N/C contact | Emergency switching off<br>mushroom head -<br>Turn to release, with key<br>N/C contact | Emergency stop trigger action<br>mushroom head - Turn to release<br>N/O + N/C contacts |
|                                                                                                   |                                                                              |                                                                                        |                                                                                        |
| Emergency stop trigger<br>action mushroom head<br>Turn to release, with key<br>N/O + N/C contacts | Double-headed pushbutton<br>N/O + N/C contacts                               | Early make contact block<br>N/O contact                                                | Late break contact block<br>N/C contact                                                |

## Contact functions (selector switches)

|                                                                                                                |                                                             |                                                                                 |                                                                                          |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                                                                                                                |                                                             |                                                                                 |                                                                                          |
| Selector switch 2-position stay put<br>N/O contact                                                             | Selector switch 3-position stay put<br>N/O+N/O+N/O contacts | Selector switch 3-position<br>2 spring return to centre<br>N/O+N/O+N/O contacts | Selector switch 2-position stay put,<br>key withdrawal from LH position -<br>N/O contact |
|                                                                                                                |                                                             |                                                                                 |                                                                                          |
| Selector switch 2-position spring return from right to left,<br>key withdrawal from LH position<br>N/O contact |                                                             |                                                                                 |                                                                                          |

## Signalling functions

|                                             |                 |                                                                                                       |
|---------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------|
|                                             |                 |                                                                                                       |
| Pilot light with BA 9s<br>incandescent bulb | LED pilot light | Pilot light with integral transformer 230 V primary, 6 V secondary<br>BA 9s bulb, incandescent or LED |

## Combined functions, contact + signalling (pushbuttons and selector switches)

|                                                                        |                                                   |                                                                                                                                                    |
|------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        |                                                   |                                                                                                                                                    |
| Illuminated pushbutton,<br>BA 9s incandescent bulb<br>N/O+N/C contacts | Illuminated pushbutton<br>LED - N/O+ N/C contacts | Illuminated pushbutton with integral transformer<br>230 V ~ 50/60 Hz primary, 6 V secondary<br>BA 9s bulb, incandescent or LED - N/O+ N/C contacts |
|                                                                        |                                                   |                                                                                                                                                    |
| Double-headed pushbutton with LED pilot light                          |                                                   | Illuminated selector switch with LED, 2-position stay put<br>N/O + N/C contacts                                                                    |

## Joystick controller functions

|                       |                       |
|-----------------------|-----------------------|
| <b>2 direction</b>    | <b>4 direction</b>    |
|                       |                       |
| Without spring return | Without spring return |
|                       |                       |
| With spring return    | With spring return    |

## Complete units

## Contact functions

## Pushbuttons, spring return



Flush push, unmarked  
XB5 AA1/AA42  
see page 94



Flush push, with marking  
XB5 AA3311/AA331  
see page 98



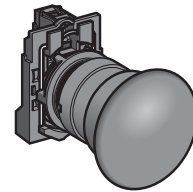
Projecting push, with marking  
XB5 AL4322  
see page 98



Booted flush push  
XB5 AP1/AP42  
see page 97



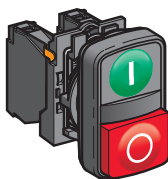
Projecting push, unmarked  
XB5 AL42  
see page 96



Ø 40

Mushroom head  
XB5 AC21  
see page 104

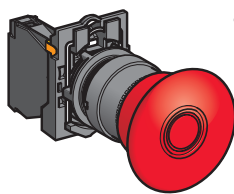
## Multiple-headed pushbuttons, spring return



Double-headed  
XB5 AL73415  
see page 102



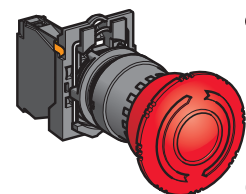
Triple-headed  
XB5 AA731327/XB5 AA711237  
see page 103

Emergency Stop or  
Emergency switching off  
mushroom head  
pushbuttons, Ø 40

Ø 40

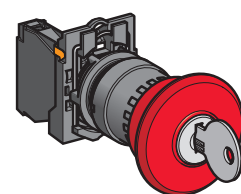
Emergency stop trigger  
action and mechanical  
latching

Push-pull (EN/ISO 13850: 2006)  
XB5 AT845  
see page 106



Ø 40

Turn to release (EN/ISO 13850: 2006)  
XB5 AS804  
see page 106



Ø 40

Key release (EN/ISO 13850: 2006)  
XB5 AS9445  
see page 106

Emergency switching off  
mechanical latching

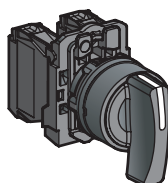
Push-pull (IEC 60364-5-53)  
XB5 AT42  
see page 107

Turn to release (IEC 60364-5-53)  
XB5 AS542  
see page 107

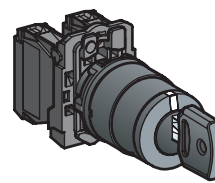
Key release (IEC 60364-5-53)  
XB5 AS142  
see page 107

Selector switches  
and key switches

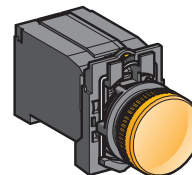
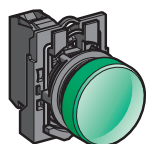
Standard handle, black  
XB5 AD  
see page 110



Long handle, black  
XB5 AJ  
see page 111



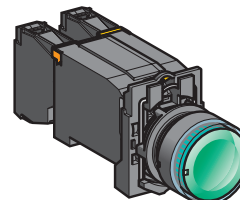
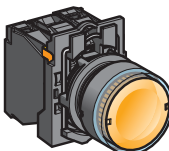
Key switch  
XB5 AG  
see page 112

**Complete units**  
(continued)**Signalling functions****Pilot lights**

Integral LED

XB5 AVB●/AVG●/AVM●  
see page 116For bulb with BA 9s base fitting  
Direct supplyXB5 AV6●  
see page 117

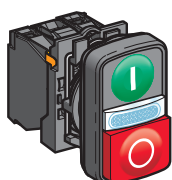
Via integral transformer

XB5 AV3●/AV4●  
see page 117**Combined functions (contact + signalling)****Illuminated pushbuttons,  
spring return, flush push**

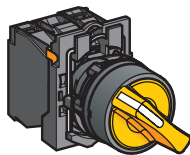
Integral LED

XB5 AW3●B5/AW3●G5/AW3●M5  
see page 99For bulb with BA 9s base fitting  
Direct supplyXB5 AW3●65  
see page 101

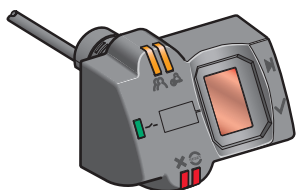
Via integral transformer

XB5 AW3●35/AW3●45  
see page 101**Double-headed pushbuttons,  
spring return, + pilot light  
block**

Integral LED

XB5 AW73731●5  
see page 102**Illuminated selector  
switches, standard handle**

Integral LED

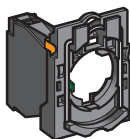
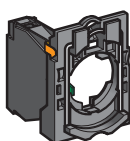
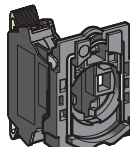
XB5 AK1●●3  
see page 115**Fingerprint reader biometric  
switches**

Bistable or monostable type, 24 V d.c.

XB5 SoB●●●●  
see page 158

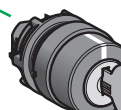
## Control and signalling units Ø 22

Harmony® XB5, plastic

Pushbuttons, switches and pilot lights:  
sub-assemblies, ZB5 ANon illuminated units  
for user assemblyFor pushbuttons,  
spring return, unmarkedBody  
sub-assembliesScrew clamp terminals  
ZB5 AZ10●/AZ141  
page 120Faston  
ZB5 AZ10●3  
page 124Spring clamp  
terminals  
ZBE 10●5  
ZB5 AZ10●5  
page 122For pushbuttons,  
spring return, with markingFor multiple-headed  
pushbuttons, spring returnFor "push-push to release"  
pushbuttonsFor "push-turn to release"  
pushbuttons

## Contact functions

## Head sub-assemblies

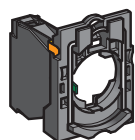
Flush push without  
cap/with set of 6 caps  
ZB5 AA0/AA9  
page 94Flush push  
ZB5 AA●  
page 94Flush push for  
insertion of legend  
ZB5 AA●8  
page 94Flush push, cap  
mounted/not mounted  
ZB5 CA0/CA●  
page 94Projecting  
ZB5 AL●  
page 96Recessed push  
ZB5 AA●  
page 95Booted flush push,  
for insertion of legend  
ZB5 AP●●/AP●S  
page 97Projecting or  
recessed push  
ZB5 CA●/CL●  
page 95Flush push  
ZB5 AA●3●/AA●4●  
page 98Projecting push  
ZB5 AL●  
page 98Flush push  
ZB5 CA●3●/ CA●9●  
page 98Double-headed  
ZB5 AA7●●●/AA79  
ZB5 AL734●  
page 102Triple-headed  
ZB5 AA7313●, ZB5 AA711●●  
ZB5 AA72124, ZB5 AA791  
page 103Flush push (caps  
mounted/not mounted)  
ZB5 AH●●/CH●●  
page 108Projecting push  
ZB5 AH●  
page 108Flush push (caps  
mounted/not mounted)  
ZB5 CH0/CH0●  
page 108Key switches  
ZB5 AFD●  
page 109Knurled knob (1)  
ZB5 AF  
page 109

(1) Knob positions



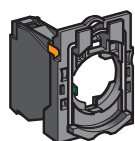
## Non illuminated units for user assembly (continued)

For mushroom head  
pushbuttons



Screw clamp terminals  
ZB5 AZ10●/AZ141  
page 120

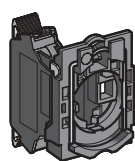
For Emergency Stop or  
Emergency switching off  
mushroom head pushbuttons



Emergency stop trigger  
action and mechanical  
latching

Faston  
ZB5 AZ10●3  
page 124

Emergency switching off  
mechanical latching



Emergency stop trigger  
action and mechanical  
latching

Spring clamp terminals  
ZBE 10●5  
ZB5 AZ10●5  
page 122

Emergency switching off  
mechanical latching

For selector switches  
and key switches

For toggle switches

## Contact functions (continued)

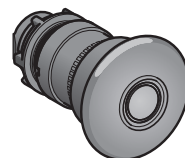
### Body sub-assemblies

### Head sub-assemblies



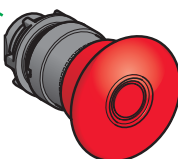
Ø 30  
Ø 40  
Ø 60

Spring  
ZB5 AC●/AR●  
see page 104



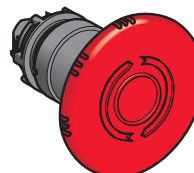
Ø 30  
Ø 40  
Ø 60

Latching  
ZB5 A●2/AS●2/AS55  
see page 105



Ø 30  
Ø 40  
Ø 60

Push-pull (EN/ISO 13850: 2006)  
ZB5 AT84  
see page 106

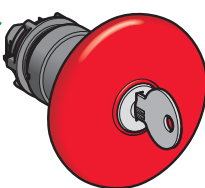


Ø 30  
Ø 40  
Ø 60

Turn to release (EN/ISO 13850: 2006)  
ZB5 AS8●4  
see page 106

Push-pull (IEC 60364-5-53)  
ZB5 AT●/AX●  
see page 107

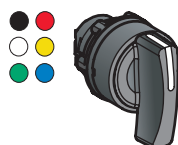
Turn to release (IEC 60364-5-53)  
ZB5 AS44/AS54/AS64  
see page 107



Ø 30  
Ø 40  
Ø 60

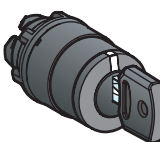
Key release (EN/ISO 13850: 2006)  
ZB5 AS9●4/AS944D, see page 106

Key release (IEC 60364-5-53)  
ZB5 AS●4/AS14D, see page 107



Standard handle (1)  
ZB5 AD●  
page 110

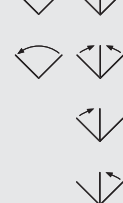
Long black handle (1)  
ZB5 AJ●  
page 111



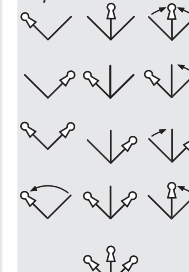
Knurled black knob (1)  
ZB5 AD●9  
page 113

Key switch (2)  
ZB5 AG●●  
page 113

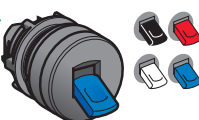
(1) Switch handle  
and knob  
positions



(2) Key switch  
positions  
Key withdrawal  
positions



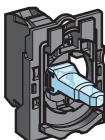
(3) Lever positions



2-position lever (3)  
ZB5 AD●8  
see page 113

Pilot lights  
for user assembly

## Signalling functions

Body sub-assemblies  
with integral LED

Connection: screw clamp terminals  
ZB5 AVB/AVG/AVM  
see page 128

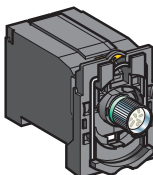


Connection: plug-in connector  
Please consult your Regional  
Sales Office

## Body sub-assemblies for BA 9s bulb



Direct supply  
Connection: screw clamp terminals  
ZB5 AV6, page 131



Via integral transformer  
Connection: screw clamp terminals  
ZB5 AV●/AV3D●/AV5D●  
page 131

## Head sub-assemblies



With lens fitted (insertion of legend)  
ZB5 AV0●3/AV0●3E, see page 116



With lens fitted  
ZB5 CV0●3, see page 116



With 5 lens caps (not fitted) for insertion of legend  
ZB5 AV003/AV0●3●, see page 116



With 5 separate lens caps, not fitted  
ZB5 CV003, see page 116

## Head sub-assemblies

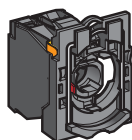


With lens fitted  
ZB5 AV0●, see page 117

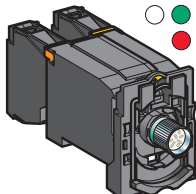
Illuminated  
pushbuttons  
for user assembly

## Combined functions (contact + signalling)

For illuminated pushbuttons,  
spring return



Direct supply  
Connection: screw clamp terminals  
ZB5 AW06●, page 130



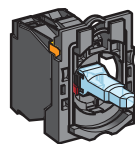
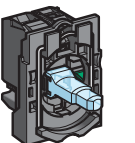
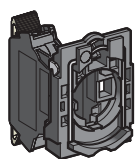
Via integral transformer  
Connection: screw clamp terminals  
ZB5 AW03/4/5/3D/4D/5D  
see page 130



Flush  
ZB5 AW3●/AW3●S, see page 100



Projecting  
ZB5 AW1●/AW1●S, see page 100

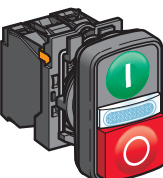
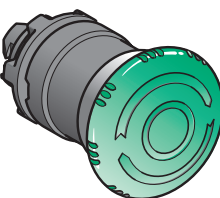
Illuminated  
pushbuttons  
for user assemblyFor illuminated  
pushbuttons, spring returnBody sub-assemblies  
with integral LEDConnection: screw clamp  
terminals  
ZB5 AW0B/AW0G/AW0M  
see page 126Connection: plug-in  
connectorPlease consult your  
Regional Sales OfficeFor double-headed  
pushbuttons, spring return,  
with pilot lightFor illuminated, mushroom  
head pushbuttons, latchingConnection: spring clamp  
terminals  
ZBV ●●5  
see page 122For illuminated mushroom  
head pushbuttons

- Emergency Stop with  
trigger action and  
mechanical latching
- or
- Emergency switching off  
with mechanical latching  
only

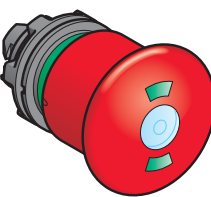
For illuminated "push-push  
to release" pushbuttonsFor illuminated selector  
switches, standard handle

## Combined functions (contact + signalling) (continued)

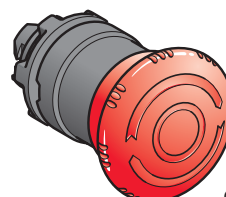
## Head sub-assemblies

Flush push  
Flush push with illuminated ring  
ZB5 AW3●3/AW3●3S/AW9●3  
see page 100Flush push  
for insertion of legend  
ZB5 AA●8  
see page 100Booted flush push  
ZB5 AW5●3  
see page 100Projecting push  
ZB5 AW1●3/AW1●3S  
see page 100Flush or projecting push  
Flush or projecting push for insertion of legend  
ZB5 CW3●3/CW1●3  
see page 100Double-headed (flush/flush push) + central pilot light  
Triple-headed (flush/projecting push) + central pilot light  
ZB5 AW7A17●●, ZB5 AW7A374●, ZB5 AW7A9, ZB5 AW7L374●, see page 102  
ZB5 AA7313●, ZB5 AA71●●●, ZB5 AA72124, ZB5 AA791, see page 103

Ø 40

Turn to release  
ZB5 AW7●3, see page 105

Ø 40

Push-pull with mechanical state  
indicator (EN/ISO 13850:2006)  
ZB5 AT8643M  
see page 106

Ø 40

Turn to release  
(IEC 60364-5-53)  
ZB5 AW743  
see page 107Flush or projecting "push-push to  
release"  
ZB5 AH0●3/AH●3  
see page 108Flush "Push-push to  
release"  
ZB5 CH3●3  
see page 108Standard handle (1)  
ZB5 AK1●●3  
see page 115

(1) Handle positions



| Environment                               |                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------|-------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                      | Standard version                    |    | "TH" treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ambient air temperature around the device | Storage                             | °C | - 40... + 70                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           | Operation                           | °C | - 25... + 70: LED and neon bulb versions<br>- 25... + 55: incandescent bulb version                                                                                                                                                                                                                                                                                                                                                                                      |
| Electric shock protection                 | Conforming to IEC 61140             |    | Class II                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Degree of protection                      | Conforming to IEC 60529             |    | IP 66<br>IP 69 K (Selector switches and multiple-headed pushbuttons)<br>IP 54 (Emergency stop illuminated, trigger action and mechanical latching pushbuttons with mechanical state indicator)                                                                                                                                                                                                                                                                           |
|                                           | Conforming to NEMA                  |    | NEMA type 4X and 13, unless otherwise stated                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Resistance to high pressure washer        |                                     | Pa | 70 x 10 <sup>5</sup> (70 bar); distance: 0.1 m<br>Temperature: 55 °C                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mechanical shock protection               | Conforming to IEC 50102             |    | Non illuminated heads: IK 03<br>Illuminated heads: IK 05<br>Selector switch heads: IK 06                                                                                                                                                                                                                                                                                                                                                                                 |
| Conforming to standards                   |                                     |    | EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5, EN/IEC 60204-1 and EN/ISO 13850: 2006 (Emergency stop trigger action and mechanical latching pushbuttons, see page 106)<br>IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons, see page 106)<br>EN 81-1 (Emergency stop illuminated, trigger action and mechanical latching pushbuttons with mechanical state indicator, see page 106)<br>JIS C 4520, UL 508, CSA C22-2 n° 14 |
| Product certifications                    | UL Listed, CSA                      |    | Standard single contacts with screw clamp and spring terminals: A600; Q600<br>Double contacts with screw clamp terminals: A600; Q600<br>Light blocks with screw clamp terminals<br>Joystick controllers XD5 PA/ZD5 PA: A600; R300<br>Special contact blocks:<br>□ ZBE 201: A300; Q300<br>□ ZBE 202: A600; Q600<br>Single contacts for high power switching:<br>□ ZBE 501 and ZBE 502: A300; P300                                                                         |
|                                           | UL Recognized, CSA                  |    | Standard single contacts for plug-in connector: A300; R300<br>Standard contacts for printed circuit board: B300; R300                                                                                                                                                                                                                                                                                                                                                    |
|                                           | BV, RINA, LROS, DNV, GL             |    | Standard single contacts and double contacts with screw clamp or spring terminals:                                                                                                                                                                                                                                                                                                                                                                                       |
| Terminal referencing                      | Conforming to EN 50005 and EN 50013 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### Characteristics of contact or combined contact and signalling functions (see page 92)

| Mechanical characteristics                        |                                                          |    |                                                                                                    |
|---------------------------------------------------|----------------------------------------------------------|----|----------------------------------------------------------------------------------------------------|
| Contact operation                                 | N/C or N/O                                               |    | Slow break                                                                                         |
| Positive operation                                | Conforming to EN/IEC 60947-5-1 appendix K                |    | All functions incorporating a N/C contact have positive opening operation                          |
| Operating travel (to change the electrical state) | Pushbutton                                               | mm | Changing N/C state: 1.5<br>Changing N/O state: 2.6<br>Total travel: 4.3                            |
| Operating force                                   | Pushbutton                                               | N  | Changing N/C state: 3.5<br>Changing N/O state: 3.8                                                 |
|                                                   | Additional contact only (extra to change state)          | N  | Single N/C contact: 2<br>Single N/O contact: 2.3                                                   |
|                                                   |                                                          | N  | Double N/C contact: 3.4<br>Double N/O contact: 5<br>Double contact N/C + N/O: 4.6                  |
|                                                   | Emergency stop or Emergency switching off with N/C + N/O | N  | Standard push-pull: 45<br>Trigger action push-pull: 50                                             |
|                                                   |                                                          | N  | Standard turn to release and key release: 40<br>Trigger action turn to release and key release: 44 |

| Characteristics of contact or combined contact and signalling functions (continued) (see page 92) |                                                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mechanical characteristics (continued)                                                            |                                                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                            |
| Operating torque<br>(to change the electrical state)                                              | Selector switches                                    |                      | N.m                                                                                                                                                                                                                                                                                                                                                                                            | N/O contact: 0.14                                                                                                                                          |
|                                                                                                   | Additional contact only                              |                      | N.m                                                                                                                                                                                                                                                                                                                                                                                            | N/O contact: 0.05                                                                                                                                          |
| Mechanical durability<br>(in millions of operating cycles)                                        | Pushbutton                                           | Spring return        |                                                                                                                                                                                                                                                                                                                                                                                                | 5                                                                                                                                                          |
|                                                                                                   |                                                      | Multiple-headed      |                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                                                                          |
|                                                                                                   |                                                      | Push-push to release |                                                                                                                                                                                                                                                                                                                                                                                                | 0.5                                                                                                                                                        |
|                                                                                                   | Selector switch                                      | Non illuminated      |                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                                                                          |
|                                                                                                   |                                                      | Illuminated          |                                                                                                                                                                                                                                                                                                                                                                                                | 0.5                                                                                                                                                        |
|                                                                                                   | Toggle switch                                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                | 0.5                                                                                                                                                        |
|                                                                                                   | Emergency stop or Emergency switching off pushbutton |                      |                                                                                                                                                                                                                                                                                                                                                                                                | 0.3 with 4 contacts<br>0.3 with 2 contacts (Emergency stop with mechanical state indicator)                                                                |
|                                                                                                   | Joystick controller                                  |                      |                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                                                                          |
|                                                                                                   | Standard contact block only                          |                      |                                                                                                                                                                                                                                                                                                                                                                                                | 5                                                                                                                                                          |
| Low power switching contact block only (dust protected)                                           |                                                      |                      | 0.5                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                            |
| Vibration resistance                                                                              | Conforming to IEC 60068-2-6                          |                      |                                                                                                                                                                                                                                                                                                                                                                                                | Frequency: 2 to 500 Hz: 5 gn                                                                                                                               |
| Mechanical shock resistance                                                                       | Conforming to IEC 60068-2-27                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                | All functions except mushroom head pushbuttons, spring return:<br>□ half sine wave acceleration 11 ms: 50 gn<br>□ half sine wave acceleration 18 ms: 30 gn |
|                                                                                                   |                                                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                | Spring return mushroom head pushbutton:<br>□ half sine wave acceleration 11 ms: 15 gn                                                                      |
| Electrical characteristics                                                                        |                                                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                            |
| Cabling capacity                                                                                  | Conforming to /IEC 60947-1                           | mm²                  | Standard block with screw clamp or spring terminals:<br>Min: 1 x 0.22 without cable end<br>Max: 2 x 1.5 with cable end<br>Cross headed screws (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver<br>Tightening torque: 0.8 N.m (maxi 1.2 N.m)<br><br>Contact blocks for high power switching:<br>Min: 1 x 0.5 without cable end<br>Max: 2 x 2.5 with or without cable end |                                                                                                                                                            |
| Contact material                                                                                  | Silver alloy (Ag / Ni)                               |                      | Standard single and double blocks with screw clamp or spring terminals<br>Blocks for plug-in connector<br>Standard blocks for printed circuit board connection                                                                                                                                                                                                                                 |                                                                                                                                                            |
|                                                                                                   | Gold flashed (Ag / Ni / Au)                          |                      | Low power switching contact blocks with screw clamp terminals<br>Low power switching contact blocks for printed circuit board connection                                                                                                                                                                                                                                                       |                                                                                                                                                            |
| Short-circuit protection                                                                          | Conforming to EN/IEC 60947-5-1                       | A                    | Standard single and double blocks with screw clamp or spring terminals: 10 (gG cartridge fuse conforming to IEC 60269-1)<br>Blocks for plug-in connector<br>Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)                                                                                                                              |                                                                                                                                                            |
| Rated thermal current                                                                             | Conforming to EN/IEC 60947-5-1                       | A                    | Standard single and double blocks with screw clamp or spring terminals: 10<br>Blocks for plug-in connector: 10<br>Standard blocks for printed circuit board connection: 6                                                                                                                                                                                                                      |                                                                                                                                                            |
| Rated insulation voltage                                                                          | Conforming to EN/IEC 60947-1                         | V                    | Standard single and double blocks with screw clamp or spring terminals:<br>Ui = 600, degree of pollution 3<br>Blocks for plug-in connector or Faston connectors<br>Standard blocks for printed circuit board connection<br>Contact blocks for high-power switching:<br>Ui = 250, degree of pollution 3                                                                                         |                                                                                                                                                            |
| Rated impulse withstand voltage                                                                   | Conforming to /IEC 60947-1                           | kV                   | Standard single and double blocks with screw clamp or spring terminals: Uimp = 6<br>Blocks for plug-in connector<br>Standard blocks for printed circuit board connection<br>Contact blocks for high-power switching: Uimp = 4                                                                                                                                                                  |                                                                                                                                                            |

#### Characteristics of contact or combined contact and signalling functions (continued) (see page 92)

##### Electrical characteristics (continued)

**Rated operational characteristics**  
Conforming to EN/IEC 60947-5-1

a.c. supply:  
utilisation category AC-15

**Standard single and double blocks with screw clamp or spring terminals**  
A600:  $U_e = 600\text{ V}$  and  $I_e = 1.2\text{ A}$  or  
 $U_e = 240\text{ V}$  and  $I_e = 3\text{ A}$  or  
 $U_e = 120\text{ V}$  and  $I_e = 6\text{ A}$   
**Blocks for plug-in connector:**  
A300:  $U_e = 120\text{ V}$  and  $I_e = 6\text{ A}$  or  
 $U_e = 240\text{ V}$  and  $I_e = 3\text{ A}$   
**Standard blocks for printed circuit board connection:**  
B300:  $U_e = 120\text{ V}$  and  $I_e = 3\text{ A}$  or  
 $U_e = 240\text{ V}$  and  $I_e = 1.5\text{ A}$   
**Special contact blocks:**  
□ ZBE 201: A300:  $U_e = 240\text{ V}$  and  $I_e = 3\text{ A}$  or  
 $U_e = 120\text{ V}$  and  $I_e = 6\text{ A}$  (with insulation voltage  $U_i = 500\text{ V}$ )  
□ ZBE 202: A600:  $U_e = 600\text{ V}$  and  $I_e = 1.2\text{ A}$  or  
 $U_e = 240\text{ V}$  and  $I_e = 3\text{ A}$  or  $U_e = 120\text{ V}$  and  $I_e = 6\text{ A}$   
**Contact blocks for high power switching:**  
□ ZBE 50●: A300:  $U_e = 240\text{ V}$  and  $I_e = 3\text{ A}$  or  
 $U_e = 120\text{ V}$  and  $I_e = 6\text{ A}$

d.c. supply:  
utilisation category DC-13

**Standard single and double blocks with screw clamp or spring terminals**  
Q600:  $U_e = 600\text{ V}$  and  $I_e = 0.1\text{ A}$  or  
 $U_e = 250\text{ V}$  and  $I_e = 0.27\text{ A}$  or  
 $U_e = 125\text{ V}$  and  $I_e = 0.55\text{ A}$   
**Joystick controllers XD5 PA/ZD5 PA:**  
R300:  $U_e = 125\text{ V}$  and  $I_e = 0.22\text{ A}$  or  
 $U_e = 250\text{ V}$  and  $I_e = 0.1\text{ A}$   
**Blocks for plug-in connector:**  
R300:  $U_e = 125\text{ V}$  and  $I_e = 0.22\text{ A}$  or  
 $U_e = 250\text{ V}$  and  $I_e = 0.1\text{ A}$   
**Standard blocks for printed circuit board connection:**  
R300:  $U_e = 125\text{ V}$  and  $I_e = 0.22\text{ A}$  or  
 $U_e = 250\text{ V}$  and  $I_e = 0.1\text{ A}$   
**Special contact blocks:**  
□ ZBE 201: Q300:  $U_e = 125\text{ V}$  and  $I_e = 0.55\text{ A}$  or  
 $U_e = 250\text{ V}$  and  $I_e = 0.27\text{ A}$   
□ ZBE 202: Q600:  $U_e = 600\text{ V}$  and  $I_e = 0.1\text{ A}$  or  
 $U_e = 250\text{ V}$  and  $I_e = 0.27\text{ A}$  or  $U_e = 125\text{ V}$  and  
 $I_e = 0.55\text{ A}$   
**Contact blocks for high power switching:**  
□ ZBE 50●: P300:  $U_e = 125\text{ V}$  and  $I_e = 1.1\text{ A}$  or  
 $U_e = 250\text{ V}$  and  $I_e = 0.55\text{ A}$

**Characteristics of special contact blocks**

**Low power switching**

VA  
A  
V

P max: 12  
I max: 0.1  
U max: 24

**High power switching**  
conforming to EN/IEC 60947-5-1

100 000 operating cycles  
Load factor: 0.5  
Operating rate: 900 cycles/hour

VA  
A  
V

P max: 240  
I max: 10  
U: 24 ---

##### Electrical durability

Conforming to EN/IEC 60947-5-1 appendix C  
Operating rate 3600 operating cycles/hour  
Load factor: 0.5

a.c. supply  
for 1 million operating cycles  
utilisation category AC-15

V  
A

Standard single blocks with screw clamp terminals or spring terminals:

|    |     |     |
|----|-----|-----|
| 24 | 120 | 230 |
| 4  | 3   | 2   |

V  
A

Standard double blocks with screw clamp terminals and blocks for plug-in connector:

|    |     |     |
|----|-----|-----|
| 24 | 120 | 230 |
| 3  | 1.5 | 1   |

d.c. supply  
for 1 million operating cycles  
utilisation category DC-13

V  
A

Standard single blocks with screw clamp terminals or spring terminals:

|     |     |
|-----|-----|
| 24  | 110 |
| 0.5 | 0.2 |

V  
A

Standard double blocks with screw clamp terminals and blocks for plug-in connector:

|     |      |
|-----|------|
| 24  | 110  |
| 0.4 | 0.15 |

##### Electrical reliability

**Failure rate**  
Conforming to EN/IEC 60947-5-4

In clean environment

Standard blocks:  
- at 17 V and 5 mA,  $\lambda < 10^{-8}$   
- at 5 V and 1 mA,  $\lambda < 10^{-6}$   
Special blocks with gold flashed contacts, for low power switching:  
- at 5 V and 1 mA,  $\lambda < 10^{-7}$

In dusty environment

Special blocks with gold flashed contacts and dust protection for low power switching only:  
- at 5 V and 1 mA,  $\lambda < 10^{-7}$

#### Characteristics of illuminated units (pilot lights)

| Mechanical characteristics      |                              |                 |                                                                                                                                                                                                                                                                           |
|---------------------------------|------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vibration resistance            | Conforming to IEC 60068-2-6  |                 | Frequency: 12 to 500 Hz: 5 gn                                                                                                                                                                                                                                             |
| Electric shock resistance       | Conforming to IEC 60068-2-27 |                 | Half sine wave acceleration 11 ms: 50 gn<br>Half sine wave acceleration 18 ms: 30 gn                                                                                                                                                                                      |
| Electrical characteristics      |                              |                 |                                                                                                                                                                                                                                                                           |
| Cabling capacity                | Conforming to EN/IEC 60947-1 | mm <sup>2</sup> | Screw clamp and spring terminals<br>Min: 1 x 0.2 without cable end<br>(1 x 0.34 for linking)<br>Max: 2 x 1.5 with cable end                                                                                                                                               |
| Rated insulation voltage        | Conforming to EN/IEC 60947-1 | V               | Direct supply pilot light blocks (BA 9s bulb):<br>U <sub>i</sub> = 250 degree of pollution 3<br>Pilot light blocks with integral LED:<br>U <sub>i</sub> = 250 degree of pollution 3<br>Pilot light blocks with transformer:<br>U <sub>i</sub> = 600 degree of pollution 3 |
| Rated impulse withstand voltage | Conforming to EN/IEC 60947-1 | kV              | Direct supply pilot light blocks (BA 9s bulb):<br>U <sub>imp</sub> = 4<br>Pilot light blocks with integral LED: U <sub>imp</sub> = 4<br>Pilot light blocks with transformer: U <sub>imp</sub> = 6                                                                         |

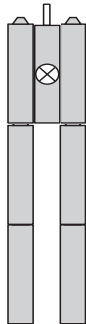
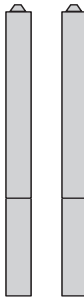
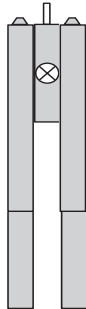
#### Specific characteristics of single light blocks with integral LED

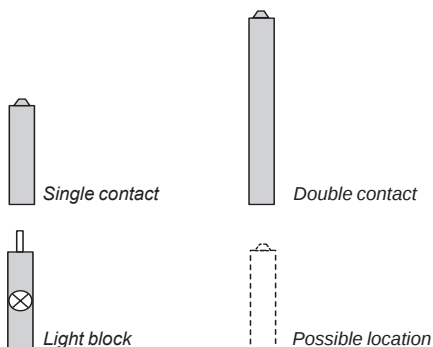
|                                                                                      |                                                         |     |                                                                                                                                                                            |
|--------------------------------------------------------------------------------------|---------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage limits                                                                       | For rated voltage                                       | V   | 12 V: 10 to 15 ~; 10.2 to 13.8 ~<br>24 V: 19.2 to 15 ~; 21.6 to 13.8 ~<br>24 to 120 V: 19.2 to 132 ~; 21.6 to 132 ~<br>48 to 120 V: 40 to 132 ~<br>230/240 V: 195 to 264 ~ |
| Current consumption                                                                  | Applicable to all colours                               | mA  | Blocks with ~ 12 V supply: 18<br>Blocks with ~ 24 V supply: 18<br>Blocks with ~ 120 V supply: 14<br>Blocks with ~ 240 V supply: 14                                         |
| Service life                                                                         | At rated voltage and at an ambient temperature of 25 °C | H   | 100 000                                                                                                                                                                    |
| Surge withstand                                                                      | Conforming to IEC 61000-4-5                             | kV  | 1                                                                                                                                                                          |
| Resistance to fast transients                                                        | Conforming to IEC 61000-4-4                             | kV  | 2                                                                                                                                                                          |
| Resistance to electromagnetic fields                                                 | Conforming to IEC 61000-4-3                             | V/m | 10                                                                                                                                                                         |
| Resistance to electrostatic discharges                                               | Conforming to IEC 61000-4-2                             | kV  | 8: in free air, in insulating parts<br>6: on contact, on metal parts                                                                                                       |
| Direct parallel connection across inductive load<br>e.g.: contactor coil or solenoid | Maximum power of load                                   | VA  | For high power applications (≥ 30 VA), a <b>ZBZ V●</b> LED suppressor must be connected across the light block terminals (see page 121)                                    |
| Electromagnetic emission                                                             | Conforming to IEC 55011                                 |     | Class B                                                                                                                                                                    |

#### Specific characteristics

| Fixing nut                     |                              |     |                                              |
|--------------------------------|------------------------------|-----|----------------------------------------------|
| Head tightening torque         |                              | N.m | 2.2 (± 0.2)                                  |
| Hour counters and annunciators |                              |     |                                              |
| Voltage limits                 | Hour counter and annunciator | V   | ± 10% of the nominal voltage                 |
| Current consumption            | Hour counter                 | mA  | XB5 DSB: 7 to 15<br>XB5 DSG: 8<br>XB5 DSM: 8 |
|                                | Annunciator                  | mA  | 5                                            |

## Maximum recommended configurations guaranteeing achievement of catalogue characteristics

| Unit type<br>(complete units XB5 B, heads ZB5 B) | Pushbuttons, spring return<br>XB5 AA●, ZB5 AA●, (except ZB5 AA●8)<br>XB5 AC●, ZB5 AC●, XB5 AL●, ZB5 AL●, XB5 AP●, ZB5 AP●, ZB5 AR●<br>Triple-headed pushbuttons<br>XB5 AA731327, XB5 AA711137, ZB5 AA7313●, ZB5 AA7111●, ZB5 AA72124, ZB5 AA791 | Double-headed pushbuttons<br>XB5 AL73415, ZB5 AA712●, ZB5 A●734●, ZB5 AA79           | Illuminated pushbuttons, spring return XB5 AW●, ZB5 AW●, ZB5 AA●8<br>Double-headed pushbuttons + pilot light block<br>XB5 AW73731●5, ZB5 AW7A17●●, ZB5 AW7●374●, ZB5 AW7A9 |                       |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Solution using single contacts                   |                                                                                                                                                                |    |                                                                                         |                       |
| Solution using single and double contacts        |                                                                                                                                                              |  |                                                                                       |                       |
| Maximum recommended configurations               | Single contacts<br>Double contacts +<br>Single contacts<br>Light block                                                                                                                                                                          | 9<br>3<br>+<br>3<br>–                                                                | 6<br>2<br>+<br>2<br>–                                                                                                                                                      | 6<br>2<br>+<br>2<br>1 |

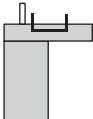
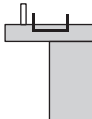
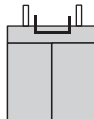
Possible configurations for high power switching contacts <sup>(1) (2)</sup>

High power switching contact blocks with screw clamp terminal connections :

ZBE 501, ZBE 502, ZBE 503, ZBE 504 and ZBE 505

High power switching contact blocks with connection by Faston connectors

ZBE 5013, ZBE 5023, ZBE 5033, ZBE 5043 and ZBE 5053

|                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| 1 N/O                                                                               | 1 N/C                                                                                 | 1 N/O + N/C<br>1 N/O + N/O<br>1 N/C + N/C                                             |

<sup>(1)</sup> The configurations are not upgradable and cannot be combined with other types of contact and signalling functions.<sup>(2)</sup> High power switching contacts are not compatible with Harmony triple-headed pushbuttons.

| Emergency stop or Emergency switching off<br>XB5 AT●, ZB5 AT●, XB5 AS●, ZB5 AS● |   | Selector switches XB5 AD●, ZB5 AD●,<br>■ Standard handle XB5 AJ●, ZB5 AJ●,<br>■ Long handle ZB5 AD●9,<br>■ Key switch XB5 AG●, ZB5 AG● |   | Illuminated selector switches with standard handle<br>XB5 AK●, ZB5 AK●<br>Illuminated Emergency Stop<br>ZB5 AT8643M,<br>ZB5 AW743 |   | Toggle switches<br>ZB5 AD●8<br>Pushbuttons, push-turn to release, knurled operator<br>ZB5 AF●, or lockable<br>ZB5 FAD● |   | Pushbuttons, push-push<br>ZB5 AH● |  | Illuminated pushbuttons, push-push<br>ZB5 AH●3 |  |
|---------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------|--|------------------------------------------------|--|
|                                                                                 |   |                                                                                                                                        |   |                                                                                                                                   |   |                                                                                                                        |   |                                   |  |                                                |  |
|                                                                                 |   |                                                                                                                                        |   |                                                                                                                                   |   |                                                                                                                        |   | —                                 |  | —                                              |  |
| 4                                                                               | 4 | 5                                                                                                                                      | 4 | 6                                                                                                                                 | 4 | 6                                                                                                                      | 3 | 2                                 |  |                                                |  |
| 2                                                                               | 1 | 2                                                                                                                                      | 1 | 2                                                                                                                                 | 2 | 3                                                                                                                      | — | —                                 |  |                                                |  |
| +                                                                               | + | +                                                                                                                                      | + | +                                                                                                                                 | + | +                                                                                                                      | — | —                                 |  |                                                |  |
| 0                                                                               | 2 | 1                                                                                                                                      | 2 | 2                                                                                                                                 | 0 | 0                                                                                                                      | — | —                                 |  |                                                |  |
| —                                                                               | — | —                                                                                                                                      | — | —                                                                                                                                 | 1 | —                                                                                                                      | — | 1                                 |  |                                                |  |

## Sequence of contacts fitted to selector switch bodies

| Unit type                 |          |                                                                                     | Selector switches                                                                           |                                                                                     |                                                                                     |                                                                                            |                                                                                     |                                                                                       |                                                                                               |                                                                                       |                                                                                       |                                                                                             |                                                                                       |                                                                                              |                                                                                       |                                                                                       |   |
|---------------------------|----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|
|                           |          |                                                                                     | 2-position                                                                                  |                                                                                     |                                                                                     | 3-position                                                                                 |                                                                                     |                                                                                       |                                                                                               |                                                                                       |                                                                                       |                                                                                             |                                                                                       |                                                                                              |                                                                                       |                                                                                       |   |
|                           |          |                                                                                     | 315°<br> |                                                                                     |                                                                                     | 45°<br> |                                                                                     |                                                                                       | 315°<br> |                                                                                       |                                                                                       | 0°<br> |                                                                                       | 45°<br> |                                                                                       |                                                                                       |   |
| Push                      | Position | Top                                                                                 |          |                                                                                     |                                                                                     |         |                                                                                     |                                                                                       |          |                                                                                       |  |                                                                                             |  |                                                                                              |                                                                                       |                                                                                       |   |
|                           |          | Bottom                                                                              |          |                                                                                     |                                                                                     |         |                                                                                     |                                                                                       |          |                                                                                       |  |                                                                                             |  |                                                                                              |                                                                                       |                                                                                       |   |
|                           | Location | L                                                                                   | C                                                                                           | R                                                                                   | L                                                                                   | C                                                                                          | R                                                                                   | L                                                                                     | C                                                                                             | R                                                                                     | L                                                                                     | C                                                                                           | R                                                                                     | L                                                                                            | C                                                                                     | R                                                                                     |   |
|                           | State    | 0                                                                                   | 0                                                                                           | 0                                                                                   | 1                                                                                   | 1                                                                                          | 1                                                                                   | 1                                                                                     | 1                                                                                             | 0                                                                                     | 0                                                                                     | 0                                                                                           | 0                                                                                     | 0                                                                                            | 1                                                                                     | 1                                                                                     | 1 |
| Contacts                  | N/O      |  |          |  |  |         |  |  |          |  |  |        |  |         |  |  |   |
|                           | N/C      |  |          |  |  |         |  |  |          |  |  |        |  |         |  |  |   |
| L left, C centre, R right |          |                                                                                     |                                                                                             |                                                                                     |                                                                                     |                                                                                            |                                                                                     |                                                                                       |                                                                                               |                                                                                       |                                                                                       |                                                                                             |                                                                                       |                                                                                              |                                                                                       |                                                                                       |   |
| □ open, ■ closed          |          |                                                                                     |                                                                                             |                                                                                     |                                                                                     |                                                                                            |                                                                                     |                                                                                       |                                                                                               |                                                                                       |                                                                                       |                                                                                             |                                                                                       |                                                                                              |                                                                                       |                                                                                       |   |

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see pages 132 and 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Spring return pushbuttons, unmarked



XB5 AA31



ZB5 AA0



ZB5 AA5



ZB5 AA68



ZB5 CA5

### Pushbuttons with flush push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of push | Type of contact |     | Colour of push | Reference | Weight |
|---------------|--------------|-----------------|-----|----------------|-----------|--------|
|               |              |                 |     |                |           |        |
|               |              | N/O             | N/C |                |           | kg     |

#### Complete units

|  |       |   |   |        |                                          |       |
|--|-------|---|---|--------|------------------------------------------|-------|
|  | Flush | 1 | — | White  | <b>XB5 AA11</b><br>(ZB5 AZ101 + ZB5 AA1) | 0.037 |
|  |       |   |   | Black  | <b>XB5 AA21</b><br>(ZB5 AZ101 + ZB5 AA2) | 0.037 |
|  |       |   |   | Green  | <b>XB5 AA31</b><br>(ZB5 AZ101 + ZB5 AA3) | 0.037 |
|  |       |   |   | Yellow | <b>XB5 AA51</b><br>(ZB5 AZ101 + ZB5 AA5) | 0.037 |
|  |       |   |   | Blue   | <b>XB5 AA61</b><br>(ZB5 AZ101 + ZB5 AA6) | 0.037 |
|  |       | — | 1 | Red    | <b>XB5 AA42</b><br>(ZB5 AZ102 + ZB5 AA4) | 0.037 |

#### Heads only, circular

|  |                                                        |               |                 |       |
|--|--------------------------------------------------------|---------------|-----------------|-------|
|  | Without cap (2)                                        | —             | <b>ZB5 AA0</b>  | 0.022 |
|  | Flush, with set of 6 coloured caps                     | 6 colours (3) | <b>ZB5 AA9</b>  | 0.027 |
|  | Flush                                                  | White         | <b>ZB5 AA1</b>  | 0.018 |
|  |                                                        | Black         | <b>ZB5 AA2</b>  | 0.018 |
|  |                                                        | Green         | <b>ZB5 AA3</b>  | 0.018 |
|  |                                                        | Red           | <b>ZB5 AA4</b>  | 0.018 |
|  |                                                        | Yellow        | <b>ZB5 AA5</b>  | 0.018 |
|  |                                                        | Blue          | <b>ZB5 AA6</b>  | 0.018 |
|  | Flush                                                  | Grey          | <b>ZB5 AA8</b>  | 0.018 |
|  | Flush with transparent cap for insertion of legend (4) | White         | <b>ZB5 AA18</b> | 0.018 |
|  |                                                        | Green         | <b>ZB5 AA38</b> | 0.018 |
|  |                                                        | Red           | <b>ZB5 AA48</b> | 0.018 |
|  |                                                        | Yellow        | <b>ZB5 AA58</b> | 0.018 |
|  |                                                        | Blue          | <b>ZB5 AA68</b> | 0.018 |
|  | Flush (high bezel)                                     | White         | <b>ZB5 AA14</b> | 0.020 |
|  |                                                        | Black         | <b>ZB5 AA24</b> | 0.020 |
|  |                                                        | Green         | <b>ZB5 AA34</b> | 0.020 |
|  |                                                        | Red           | <b>ZB5 AA44</b> | 0.020 |
|  |                                                        | Yellow        | <b>ZB5 AA54</b> | 0.020 |
|  |                                                        | Blue          | <b>ZB5 AA64</b> | 0.020 |

#### Heads only, square

|  |                 |        |                |       |
|--|-----------------|--------|----------------|-------|
|  | Without cap (2) | —      | <b>ZB5 CA0</b> | 0.022 |
|  | Flush           | White  | <b>ZB5 CA1</b> | 0.019 |
|  |                 | Black  | <b>ZB5 CA2</b> | 0.019 |
|  |                 | Green  | <b>ZB5 CA3</b> | 0.019 |
|  |                 | Red    | <b>ZB5 CA4</b> | 0.019 |
|  |                 | Yellow | <b>ZB5 CA5</b> | 0.019 |
|  |                 | Blue   | <b>ZB5 CA6</b> | 0.019 |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Coloured cap to be ordered separately: see page 132.

(3) Head supplied with 6 different coloured caps (white, black, green, red, yellow, blue) not fitted.

(4) For legend ordering information, see page 136.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see pages 132 and 136



ZB5 AA16

| Pushbuttons with recessed push <sup>(1)</sup>                                     |                       |        |           |           |
|-----------------------------------------------------------------------------------|-----------------------|--------|-----------|-----------|
| High guard                                                                        |                       |        |           |           |
| Shape of head                                                                     | Type of push          | Colour | Reference | Weight kg |
| Heads only, circular                                                              |                       |        |           |           |
|  | Recessed (high guard) | White  | ZB5 AA16  | 0.020     |
|                                                                                   |                       | Black  | ZB5 AA26  | 0.020     |
|                                                                                   |                       | Green  | ZB5 AA36  | 0.020     |
|                                                                                   |                       | Red    | ZB5 AA46  | 0.020     |
|                                                                                   |                       | Yellow | ZB5 AA56  | 0.020     |
|                                                                                   |                       | Blue   | ZB5 AA66  | 0.020     |
| Heads only, square                                                                |                       |        |           |           |
|  | Recessed (high guard) | White  | ZB5 CA16  | 0.012     |
|                                                                                   |                       | Black  | ZB5 CA26  | 0.012     |
|                                                                                   |                       | Green  | ZB5 CA36  | 0.012     |
|                                                                                   |                       | Red    | ZB5 CA46  | 0.012     |
|                                                                                   |                       | Yellow | ZB5 CA56  | 0.012     |
|                                                                                   |                       | Blue   | ZB5 CA66  | 0.012     |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see pages 132 and 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Spring return pushbuttons, unmarked

563458



XB5 AL42

814418



ZB5 AL3

110280



ZB5 CL1

### Pushbuttons with projecting push <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head               | Type of push | Type of contact |     | Colour of push | Reference                                | Weight |
|-----------------------------|--------------|-----------------|-----|----------------|------------------------------------------|--------|
|                             |              |                 |     |                |                                          |        |
|                             |              | N/O             | N/C |                |                                          | kg     |
| <b>Complete units</b>       |              |                 |     |                |                                          |        |
|                             | Projecting   | —               | 1   | Red            | <b>XB5 AL42</b><br>(ZB5 AZ102 + ZB5 AL4) | 0.038  |
| <b>Heads only, circular</b> |              |                 |     |                |                                          |        |
|                             | Projecting   |                 |     | White          | <b>ZB5 AL1</b>                           | 0.019  |
|                             |              |                 |     | Black          | <b>ZB5 AL2</b>                           | 0.019  |
|                             |              |                 |     | Green          | <b>ZB5 AL3</b>                           | 0.019  |
|                             |              |                 |     | Red            | <b>ZB5 AL4</b>                           | 0.019  |
|                             |              |                 |     | Yellow         | <b>ZB5 AL5</b>                           | 0.019  |
|                             |              |                 |     | Blue           | <b>ZB5 AL6</b>                           | 0.019  |
| <b>Heads only, square</b>   |              |                 |     |                |                                          |        |
|                             | Projecting   |                 |     | White          | <b>ZB5 CL1</b>                           | 0.021  |
|                             |              |                 |     | Black          | <b>ZB5 CL2</b>                           | 0.021  |
|                             |              |                 |     | Green          | <b>ZB5 CL3</b>                           | 0.021  |
|                             |              |                 |     | Red            | <b>ZB5 CL4</b>                           | 0.021  |
|                             |              |                 |     | Yellow         | <b>ZB5 CL5</b>                           | 0.021  |
|                             |              |                 |     | Blue           | <b>ZB5 CL6</b>                           | 0.021  |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

Assembly of other products using:  
body/contact assemblies: see page 120  
combined sub-assemblies: see page 126  
accessories: see page 136

# Control and signalling units Ø 22

Harmony® XB5, plastic

Spring return pushbuttons, unmarked



XB5 AP51



ZB5 AP4



ZB5 AP2S



ZB5 AP183

| Pushbuttons with booted head <sup>(1)</sup>                                         |                                                                              |                                                                                   |                                                                                   |                |                                          |        |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|------------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)      |                                                                              |                                                                                   |                                                                                   |                |                                          |        |
| Shape of head                                                                       | Type of push                                                                 | Type of contact                                                                   |                                                                                   | Colour of push | Reference                                | Weight |
|                                                                                     |                                                                              |  |  |                |                                          |        |
|                                                                                     |                                                                              | N/O                                                                               | N/C                                                                               |                |                                          | kg     |
| Complete units                                                                      |                                                                              |                                                                                   |                                                                                   |                |                                          |        |
|    | Booted, clear silicone (colour of push unobscured)                           | 1                                                                                 | —                                                                                 | Black          | <b>XB5 AP21</b><br>(ZB5 AZ101 + ZB5 AP2) | 0.039  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Green          | <b>XB5 AP31</b><br>(ZB5 AZ101 + ZB5 AP3) | 0.039  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Yellow         | <b>XB5 AP51</b><br>(ZB5 AZ101 + ZB5 AP5) | 0.039  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Blue           | <b>XB5 AP61</b><br>(ZB5 AZ101 + ZB5 AP6) | 0.039  |
|                                                                                     |                                                                              | —                                                                                 | 1                                                                                 | Red            | <b>XB5 AP42</b><br>(ZB5 AZ102 + ZB5 AP4) | 0.039  |
| Silicone booted heads only, with increased protection (IP 69K)                      |                                                                              |                                                                                   |                                                                                   |                |                                          |        |
|    | Flush<br>Clear boot (2)<br>For insertion of protected legend within head (3) |                                                                                   |                                                                                   | White          | <b>ZB5 AP18</b>                          | 0.023  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Green          | <b>ZB5 AP38</b>                          | 0.023  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Red            | <b>ZB5 AP48</b>                          | 0.023  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Yellow         | <b>ZB5 AP58</b>                          | 0.023  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Blue           | <b>ZB5 AP68</b>                          | 0.023  |
|  | Projecting<br>Clear boot (2)                                                 |                                                                                   |                                                                                   | White          | <b>ZB5 AP1</b>                           | 0.014  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Black          | <b>ZB5 AP2</b>                           | 0.014  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Green          | <b>ZB5 AP3</b>                           | 0.014  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Red            | <b>ZB5 AP4</b>                           | 0.014  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Yellow         | <b>ZB5 AP5</b>                           | 0.014  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Blue           | <b>ZB5 AP6</b>                           | 0.014  |
| Silicone booted heads only, standard for mouting with legend holder (IP 66)         |                                                                              |                                                                                   |                                                                                   |                |                                          |        |
|  | Flush<br>Coloured boot (4)                                                   |                                                                                   |                                                                                   | White          | <b>ZB5 AP1S</b>                          | 0.021  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Black          | <b>ZB5 AP2S</b>                          | 0.021  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Green          | <b>ZB5 AP3S</b>                          | 0.021  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Red            | <b>ZB5 AP4S</b>                          | 0.021  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Yellow         | <b>ZB5 AP5S</b>                          | 0.021  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Blue           | <b>ZB5 AP6S</b>                          | 0.021  |
|                                                                                     | Clear membrane (4)<br>For insertion of protected legend within head (3)      |                                                                                   |                                                                                   | White          | <b>ZB5 AP183</b>                         | 0.010  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Green          | <b>ZB5 AP383</b>                         | 0.010  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Red            | <b>ZB5 AP483</b>                         | 0.010  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Yellow         | <b>ZB5 AP583</b>                         | 0.010  |
|                                                                                     |                                                                              |                                                                                   |                                                                                   | Blue           | <b>ZB5 AP683</b>                         | 0.010  |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.

(3) To order a legend for insertion within the head, see page 141.

(4) Replacement of silicone protection element without dismantling head, see page 134.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see pages 132 and 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Spring return pushbuttons, with marking



XB5 AA4322



ZB5 AA331



ZB5 AA432



ZB5 CA432



ZB5 AL232

### Pushbuttons with flush or projecting push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of push | Type of contact |     | Marking<br>Text (colour) | Colour of push | Reference | Weight<br>kg |
|---------------|--------------|-----------------|-----|--------------------------|----------------|-----------|--------------|
|               |              |                 |     |                          |                |           |              |
|               |              | N/O             | N/C |                          |                |           |              |

#### Complete units

|  |            |   |   |             |       |                                              |       |
|--|------------|---|---|-------------|-------|----------------------------------------------|-------|
|  | Flush      | 1 | – | "I" (white) | Green | <b>XB5 AA3311</b><br>(ZB5 AZ101 + ZB5 AA331) | 0.037 |
|  | Flush      | – | 1 | "O" (white) | Red   | <b>XB5 AA4322</b><br>(ZB5 AZ102 + ZB5 AA432) | 0.037 |
|  | Projecting | – | 1 | "O" (white) | Red   | <b>XB5 AL4322</b><br>(ZB5 AZ102 + ZB5 AL432) | 0.037 |
|  | Flush (2)  | 1 | – | ↑ (black)   | White | <b>XB5 AA3341</b><br>(ZB5 AZ101 + ZB5 AA334) | 0.037 |
|  | Flush (2)  | 1 | – | ↓ (white)   | Black | <b>XB5 AA3351</b><br>(ZB5 AZ101 + ZB5 AA335) | 0.037 |

#### Heads only, circular

|  |       |                  |       |                  |       |
|--|-------|------------------|-------|------------------|-------|
|  | Flush | "I" (white)      | Green | <b>ZB5 AA331</b> | 0.018 |
|  |       | "I" (black)      | White | <b>ZB5 AA131</b> | 0.018 |
|  |       | "II" (white)     | Green | <b>ZB5 AA336</b> | 0.018 |
|  |       | "II" (black)     | White | <b>ZB5 AA136</b> | 0.018 |
|  |       | "START" (white)  | Green | <b>ZB5 AA333</b> | 0.018 |
|  |       | "START" (black)  | White | <b>ZB5 AA133</b> | 0.018 |
|  |       | "ON" (white)     | Green | <b>ZB5 AA341</b> | 0.018 |
|  |       | "ON" (black)     | White | <b>ZB5 AA141</b> | 0.018 |
|  |       | "MARCHE" (white) | Green | <b>ZB5 AA342</b> | 0.018 |
|  |       | "MARCHE" (black) | White | <b>ZB5 AA142</b> | 0.018 |
|  |       | (white)          | Black | <b>ZB5 AA245</b> | 0.018 |
|  |       | (black)          | White | <b>ZB5 AA145</b> | 0.018 |
|  |       | "O" (white)      | Red   | <b>ZB5 AA432</b> | 0.018 |
|  |       |                  | Black | <b>ZB5 AA232</b> | 0.018 |
|  |       | "ARRET" (white)  | Red   | <b>ZB5 AA433</b> | 0.018 |
|  |       |                  | Black | <b>ZB5 AA233</b> | 0.018 |
|  |       | "STOP" (white)   | Red   | <b>ZB5 AA434</b> | 0.018 |
|  |       |                  | Black | <b>ZB5 AA234</b> | 0.018 |
|  |       | "OFF" (white)    | Red   | <b>ZB5 AA435</b> | 0.018 |
|  |       |                  | Black | <b>ZB5 AA235</b> | 0.018 |
|  |       | UP (black)       | White | <b>ZB5 AA343</b> | 0.018 |
|  |       | Down (white)     | Black | <b>ZB5 AA344</b> | 0.018 |
|  |       | ↑ (black) (2)    | White | <b>ZB5 AA334</b> | 0.018 |
|  |       | ↓ (white) (2)    | Black | <b>ZB5 AA335</b> | 0.018 |

#### Heads only, square

|  |           |             |       |                   |       |
|--|-----------|-------------|-------|-------------------|-------|
|  | Flush (2) | "I" (white) | Green | <b>ZB5 CA331</b>  | 0.019 |
|  |           | "O" (white) | Red   | <b>ZB5 CA432</b>  | 0.019 |
|  |           | "+" (white) | Black | <b>ZB5 CA2934</b> | 0.019 |
|  |           | ↑ (white)   | Black | <b>ZB5 CA2912</b> | 0.019 |
|  |           | "R" (white) | Blue  | <b>ZB5 CA6939</b> | 0.019 |

#### Heads only, circular

|  |                |                 |       |                  |       |
|--|----------------|-----------------|-------|------------------|-------|
|  | Projecting (2) | "O" (white)     | Red   | <b>ZB5 AL432</b> | 0.019 |
|  |                |                 | Black | <b>ZB5 AL232</b> | 0.019 |
|  |                | "ARRET" (white) | Red   | <b>ZB5 AL433</b> | 0.019 |
|  |                |                 | Black | <b>ZB5 AL233</b> | 0.019 |
|  |                | "STOP" (white)  | Red   | <b>ZB5 AL434</b> | 0.019 |
|  |                |                 | Black | <b>ZB5 AL234</b> | 0.019 |
|  |                | "OFF" (white)   | Red   | <b>ZB5 AL435</b> | 0.019 |
|  |                |                 | Black | <b>ZB5 AL235</b> | 0.019 |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see pages 132 and 136

# Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated pushbuttons, spring return, with integral LED

## Illuminated pushbuttons with flush push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                                    | Description                                                                                        | Type of contact                                                                   |                                                                                   | Supply voltage          | Colour of push | Reference                                     | Weight |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|----------------|-----------------------------------------------|--------|
|                                                                                                  |                                                                                                    | N/O                                                                               | N/C                                                                               |                         |                |                                               |        |
|                                                                                                  |                                                                                                    |  |  | V                       |                |                                               | kg     |
| <b>Complete units - With plain lens</b>                                                          |                                                                                                    |                                                                                   |                                                                                   |                         |                |                                               |        |
| <br>XB5 AW31B5  | <br>Protected LED | 1                                                                                 | 1                                                                                 | ~ 24<br>50/60 Hz        | White          | <b>XB5 AW31B5</b><br>(ZB5 AW0B15 + ZB5 AW313) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Green          | <b>XB5 AW33B5</b><br>(ZB5 AW0B35 + ZB5 AW333) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Red            | <b>XB5 AW34B5</b><br>(ZB5 AW0B45 + ZB5 AW343) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Orange         | <b>XB5 AW35B5</b><br>(ZB5 AW0B55 + ZB5 AW353) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Blue           | <b>XB5 AW36B5</b><br>(ZB5 AW0B65 + ZB5 AW363) | 0.056  |
| <br>XB5 AW34G5 |                                                                                                    |                                                                                   |                                                                                   | ~ 110...120<br>50/60 Hz | White          | <b>XB5 AW31G5</b><br>(ZB5 AW0G15 + ZB5 AW313) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Green          | <b>XB5 AW33G5</b><br>(ZB5 AW0G35 + ZB5 AW333) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Red            | <b>XB5 AW34G5</b><br>(ZB5 AW0G45 + ZB5 AW343) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Orange         | <b>XB5 AW35G5</b><br>(ZB5 AW0G55 + ZB5 AW353) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Blue           | <b>XB5 AW36G5</b><br>(ZB5 AW0G65 + ZB5 AW363) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   | ~ 230...240<br>50/60 Hz | White          | <b>XB5 AW31M5</b><br>(ZB5 AW0M15 + ZB5 AW313) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Green          | <b>XB5 AW33M5</b><br>(ZB5 AW0M35 + ZB5 AW333) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Red            | <b>XB5 AW34M5</b><br>(ZB5 AW0M45 + ZB5 AW343) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Orange         | <b>XB5 AW35M5</b><br>(ZB5 AW0M55 + ZB5 AW353) | 0.056  |
|                                                                                                  |                                                                                                    |                                                                                   |                                                                                   |                         | Blue           | <b>XB5 AW36M5</b><br>(ZB5 AW0M65 + ZB5 AW363) | 0.056  |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

Assembly of other products using:  
combined sub-assemblies: see page 126  
accessories: see page 136

# Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated pushbuttons, spring return, with integral LED



## Illuminated pushbuttons with flush push (1)

| Shape of head                                                                                               | Type of push                      | Colour | Reference  | Weight (kg) |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------|--------|------------|-------------|
| Heads only, circular (2) - With plain lens                                                                  |                                   |        |            |             |
| <br><b>Protected LED</b>   | Flush                             | White  | ZB5 AW313  | 0.017       |
|                                                                                                             |                                   | Green  | ZB5 AW333  | 0.017       |
|                                                                                                             |                                   | Red    | ZB5 AW343  | 0.017       |
|                                                                                                             |                                   | Orange | ZB5 AW353  | 0.017       |
|                                                                                                             |                                   | Blue   | ZB5 AW363  | 0.017       |
| <br><b>Protected LED</b>   | Flush with illuminated ring       | White  | ZB5 AW913  | 0.016       |
|                                                                                                             |                                   | Green  | ZB5 AW933  | 0.016       |
|                                                                                                             |                                   | Red    | ZB5 AW943  | 0.016       |
|                                                                                                             |                                   | Orange | ZB5 AW953  | 0.016       |
|                                                                                                             |                                   | Blue   | ZB5 AW963  | 0.016       |
| <br><b>Protected LED</b>   | Flush with clear boot             | White  | ZB5 AW513  | 0.019       |
|                                                                                                             |                                   | Green  | ZB5 AW533  | 0.019       |
|                                                                                                             |                                   | Red    | ZB5 AW543  | 0.019       |
|                                                                                                             |                                   | Orange | ZB5 AW553  | 0.019       |
|                                                                                                             |                                   | Blue   | ZB5 AW563  | 0.019       |
| <br><b>Protected LED</b>   | Flush for insertion of legend (3) | White  | ZB5 AA18   | 0.018       |
|                                                                                                             |                                   | Green  | ZB5 AA38   | 0.018       |
|                                                                                                             |                                   | Red    | ZB5 AA48   | 0.018       |
|                                                                                                             |                                   | Orange | ZB5 AA58   | 0.018       |
|                                                                                                             |                                   | Blue   | ZB5 AA68   | 0.018       |
| Heads only, circular (2) - With grooved lens (4)                                                            |                                   |        |            |             |
| <br><b>Protected LED</b>  | Flush                             | White  | ZB5 AW313S | 0.017       |
|                                                                                                             |                                   | Green  | ZB5 AW333S | 0.017       |
|                                                                                                             |                                   | Red    | ZB5 AW343S | 0.017       |
|                                                                                                             |                                   | Orange | ZB5 AW353S | 0.017       |
|                                                                                                             |                                   | Blue   | ZB5 AW363S | 0.017       |
| Heads only, square (2)                                                                                      |                                   |        |            |             |
| <br><b>Protected LED</b> | Flush (legend can be inserted)    | White  | ZB5 CW313  | 0.023       |
|                                                                                                             |                                   | Green  | ZB5 CW333  | 0.023       |
|                                                                                                             |                                   | Red    | ZB5 CW343  | 0.023       |
|                                                                                                             |                                   | Orange | ZB5 CW353  | 0.023       |
|                                                                                                             |                                   | Blue   | ZB5 CW363  | 0.023       |
| <br><b>Protected LED</b> | Flush (high guard)                | White  | ZB5 CW3136 | 0.014       |
|                                                                                                             |                                   | Green  | ZB5 CW3336 | 0.014       |
|                                                                                                             |                                   | Red    | ZB5 CW3436 | 0.014       |
|                                                                                                             |                                   | Orange | ZB5 CW3536 | 0.014       |
|                                                                                                             |                                   | Blue   | ZB5 CW3636 | 0.014       |

## Illuminated pushbuttons with projecting push (1)

| Shape of head                                                                                               | Type of push                           | Colour | Reference  | Weight (kg) |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------|--------|------------|-------------|
| Heads only, circular (2) - With plain lens                                                                  |                                        |        |            |             |
| <br><b>Protected LED</b> | Projecting                             | White  | ZB5 AW113  | 0.018       |
|                                                                                                             |                                        | Green  | ZB5 AW133  | 0.018       |
|                                                                                                             |                                        | Red    | ZB5 AW143  | 0.018       |
|                                                                                                             |                                        | Orange | ZB5 AW153  | 0.018       |
|                                                                                                             |                                        | Blue   | ZB5 AW163  | 0.018       |
| Heads only, circular (2) - With grooved lens (4)                                                            |                                        |        |            |             |
| <br><b>Protected LED</b> | Projecting                             | White  | ZB5 AW113S | 0.017       |
|                                                                                                             |                                        | Green  | ZB5 AW133S | 0.017       |
|                                                                                                             |                                        | Red    | ZB5 AW143S | 0.017       |
|                                                                                                             |                                        | Orange | ZB5 AW153S | 0.017       |
|                                                                                                             |                                        | Blue   | ZB5 AW163S | 0.017       |
| Heads only, square (2)                                                                                      |                                        |        |            |             |
| <br><b>Protected LED</b> | Projecting<br>(legend can be inserted) | White  | ZB5 CW113  | 0.024       |
|                                                                                                             |                                        | Green  | ZB5 CW133  | 0.024       |
|                                                                                                             |                                        | Red    | ZB5 CW143  | 0.024       |
|                                                                                                             |                                        | Orange | ZB5 CW153  | 0.024       |
|                                                                                                             |                                        | Blue   | ZB5 CW163  | 0.024       |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Only for use with bodies comprising a light source with integral LED.

(3) For legend ordering information, see page 136.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
combined sub-assemblies: see page 126  
accessories: see page 136

# Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated pushbuttons, spring return,  
with BA 9s base fitting

| Illuminated pushbuttons with flush push <sup>(1)</sup>                              |                                                                                                            |                                                                                   |                                                                                   |                         |                                             |                                             |        |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|---------------------------------------------|---------------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)      |                                                                                                            |                                                                                   |                                                                                   |                         |                                             |                                             |        |
| Shape of head                                                                       | Description                                                                                                | Type of contact                                                                   |                                                                                   | Supply voltage          | Colour of push                              | Reference                                   | Weight |
|                                                                                     |                                                                                                            |  |  |                         |                                             |                                             |        |
|                                                                                     |                                                                                                            | N/O                                                                               | N/C                                                                               | V                       |                                             |                                             | kg     |
| Complete units - With plain lens                                                    |                                                                                                            |                                                                                   |                                                                                   |                         |                                             |                                             |        |
|    | Direct supply for bulb with BA 9s base fitting, 2.4 W max, (bulb not included)                             | 1                                                                                 | 1                                                                                 | ≤ 250                   | White                                       | <b>XB5 AW3165</b><br>(ZB5 AW065 + ZB5 AW31) | 0.057  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Green                                       | <b>XB5 AW3365</b><br>(ZB5 AW065 + ZB5 AW33) | 0.057  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Red                                         | <b>XB5 AW3465</b><br>(ZB5 AW065 + ZB5 AW34) | 0.057  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Orange                                      | <b>XB5 AW3565</b><br>(ZB5 AW065 + ZB5 AW35) | 0.057  |
|                                                                                     | Via integral transformer 1.2 VA, 6 V secondary, incandescent bulb with BA 9s base fitting, (bulb included) | 1                                                                                 | 1                                                                                 | ~ 110...120<br>50/60 Hz | White                                       | <b>XB5 AW3135</b><br>(ZB5 AW035 + ZB5 AW31) | 0.128  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Green                                       | <b>XB5 AW3335</b><br>(ZB5 AW035 + ZB5 AW33) | 0.128  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Red                                         | <b>XB5 AW3435</b><br>(ZB5 AW035 + ZB5 AW34) | 0.128  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Orange                                      | <b>XB5 AW3535</b><br>(ZB5 AW035 + ZB5 AW35) | 0.128  |
| ~ 230<br>50 Hz<br>~ 220...240<br>60 Hz                                              |                                                                                                            |                                                                                   |                                                                                   | White                   | <b>XB5 AW3145</b><br>(ZB5 AW045 + ZB5 AW31) | 0.129                                       |        |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   | Green                   | <b>XB5 AW3345</b><br>(ZB5 AW045 + ZB5 AW33) | 0.129                                       |        |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   | Red                     | <b>XB5 AW3445</b><br>(ZB5 AW045 + ZB5 AW34) | 0.129                                       |        |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   | Orange                  | <b>XB5 AW3545</b><br>(ZB5 AW045 + ZB5 AW35) | 0.129                                       |        |
| Heads only <sup>(2)</sup> - With plain lens                                         |                                                                                                            |                                                                                   |                                                                                   |                         |                                             |                                             |        |
|  | Flush                                                                                                      |                                                                                   |                                                                                   |                         | White                                       | <b>ZB5 AW31</b>                             | 0,018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Green                                       | <b>ZB5 AW33</b>                             | 0,018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Red                                         | <b>ZB5 AW34</b>                             | 0,018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Orange                                      | <b>ZB5 AW35</b>                             | 0,018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Blue                                        | <b>ZB5 AW36</b>                             | 0,018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Clear                                       | <b>ZB5 AW37</b>                             | 0,018  |
| Heads only <sup>(2)</sup> - With grooved lens <sup>(3)</sup>                        |                                                                                                            |                                                                                   |                                                                                   |                         |                                             |                                             |        |
|  | Flush                                                                                                      |                                                                                   |                                                                                   |                         | White                                       | <b>ZB5 AW31S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Green                                       | <b>ZB5 AW33S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Red                                         | <b>ZB5 AW34S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Orange                                      | <b>ZB5 AW35S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Blue                                        | <b>ZB5 AW36S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Clear                                       | <b>ZB5 AW37S</b>                            | 0.018  |
| Illuminated pushbuttons with projecting push <sup>(1)</sup>                         |                                                                                                            |                                                                                   |                                                                                   |                         |                                             |                                             |        |
| Heads only <sup>(2)</sup> - With plain lens                                         |                                                                                                            |                                                                                   |                                                                                   |                         |                                             |                                             |        |
|  | Projecting                                                                                                 |                                                                                   |                                                                                   |                         | White                                       | <b>ZB5 AW11</b>                             | 0.017  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Green                                       | <b>ZB5 AW13</b>                             | 0.017  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Red                                         | <b>ZB5 AW14</b>                             | 0.017  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Orange                                      | <b>ZB5 AW15</b>                             | 0.017  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Blue                                        | <b>ZB5 AW16</b>                             | 0.017  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Clear                                       | <b>ZB5 AW17</b>                             | 0.017  |
| Heads only <sup>(2)</sup> - With grooved lens <sup>(3)</sup>                        |                                                                                                            |                                                                                   |                                                                                   |                         |                                             |                                             |        |
|  | Projecting                                                                                                 |                                                                                   |                                                                                   |                         | White                                       | <b>ZB5 AW11S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Green                                       | <b>ZB5 AW13S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Red                                         | <b>ZB5 AW14S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Orange                                      | <b>ZB5 AW15S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Blue                                        | <b>ZB5 AW16S</b>                            | 0.018  |
|                                                                                     |                                                                                                            |                                                                                   |                                                                                   |                         | Clear                                       | <b>ZB5 AW17S</b>                            | 0.018  |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Only for use with bodies comprising a light source with BA9s base fitting bulb (incandescent, neon or LED).

(3) For use in bright ambient light conditions (outdoors in sunlight, for example).

User assembly of other units, using:  
body-contacts assemblies: see page 120  
combined sub-assemblies: see page 126

# Control and signalling units Ø 22

Harmony® XB5 plastic

Multiple-headed pushbuttons, spring return



XB5 AL73415



ZB5 AA7121



ZB5 AL7341



XB5 AW73731M5



ZB5 AW7A1721



ZB5 AW7A3741

## Double-headed pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Description | Type of contact |     | Colour and marking of caps (2) | Reference | Weight |
|---------------|-------------|-----------------|-----|--------------------------------|-----------|--------|
|               |             |                 |     |                                |           | kg     |
|               |             | N/O             | N/C |                                |           |        |

### Complete units

|  |                                                   |   |   |                                                              |             |       |
|--|---------------------------------------------------|---|---|--------------------------------------------------------------|-------------|-------|
|  | 2 pushes<br>(1 flush black +<br>1 projecting red) | 1 | 1 | White "I" on green background<br>White "O" on red background | XB5 AL73415 | 0.053 |
|--|---------------------------------------------------|---|---|--------------------------------------------------------------|-------------|-------|

### Heads only

|  |                      |  |  |                                               |            |       |
|--|----------------------|--|--|-----------------------------------------------|------------|-------|
|  | 2 flush black pushes |  |  | White background + black background, unmarked | ZB5 AA7120 | 0.023 |
|  |                      |  |  | Black "I" on white background                 | ZB5 AA7121 | 0.023 |
|  |                      |  |  | White "O" on black background                 |            |       |
|  |                      |  |  | Green background + red background, unmarked   | ZB5 AA7340 | 0.023 |
|  |                      |  |  | White "I" on green background                 | ZB5 AA7341 | 0.023 |
|  |                      |  |  | White "O" on red background                   |            |       |
|  |                      |  |  | Without cap (3)                               | ZB5 AA79   | 0.023 |

|  |                                             |  |  |                                             |            |       |
|--|---------------------------------------------|--|--|---------------------------------------------|------------|-------|
|  | 1 flush black push<br>1 projecting red push |  |  | Green background + red background, unmarked | ZB5 AL7340 | 0.023 |
|  |                                             |  |  | White "I" on green background               | ZB5 AL7341 | 0.023 |
|  |                                             |  |  | White "O" on red background                 |            |       |

## Double-headed pushbuttons + 1 white central pilot light block (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Description | Type of contact |     | Colour and marking of caps (2) | Pilot light voltage | Reference | Weight |
|---------------|-------------|-----------------|-----|--------------------------------|---------------------|-----------|--------|
|               |             |                 |     |                                | V                   |           | kg     |
|               |             | N/O             | N/C |                                |                     |           |        |

### Complete units

|  |                                                                                  |   |   |                                                              |     |               |       |
|--|----------------------------------------------------------------------------------|---|---|--------------------------------------------------------------|-----|---------------|-------|
|  | 1 flush black push<br>1 projecting red push<br>1 white central pilot light block | 1 | 1 | White "I" on green background<br>White "O" on red background | 24  | XB5 AW73731B5 | 0.066 |
|  |                                                                                  |   |   |                                                              | 120 | XB5 AW73731G5 | 0.066 |
|  |                                                                                  |   |   |                                                              | 240 | XB5 AW73731M5 | 0.066 |

### Heads only (5)

|  |                                                         |  |  |                                               |  |              |       |
|--|---------------------------------------------------------|--|--|-----------------------------------------------|--|--------------|-------|
|  | 2 flush black pushes<br>1 clear central pilot light (4) |  |  | White background + black background, unmarked |  | ZB5 AW7A1720 | 0.023 |
|  |                                                         |  |  | Black "I" on white background                 |  | ZB5 AW7A1721 | 0.023 |
|  |                                                         |  |  | White "O" on black background                 |  |              |       |
|  |                                                         |  |  | Green background + red background, unmarked   |  | ZB5 AW7A3740 | 0.023 |
|  |                                                         |  |  | White "I" on green background                 |  | ZB5 AW7A3741 | 0.023 |
|  |                                                         |  |  | White "O" on red background                   |  |              |       |
|  |                                                         |  |  | Black "H" on white background                 |  | ZB5 AW7A1724 | 0.023 |
|  |                                                         |  |  | White "H" on black background                 |  |              |       |
|  |                                                         |  |  | Black "+" on white background                 |  | ZB5 AW7A1715 | 0.023 |
|  |                                                         |  |  | Black "-" on white background                 |  |              |       |
|  |                                                         |  |  | Without cap (3)                               |  | ZB5 AW7A9    | 0.023 |

|  |                                                                                |  |  |                                             |  |              |       |
|--|--------------------------------------------------------------------------------|--|--|---------------------------------------------|--|--------------|-------|
|  | 1 flush black push<br>1 projecting red push<br>1 clear central pilot light (4) |  |  | Green background + red background, unmarked |  | ZB5 AW7L3740 | 0.023 |
|  |                                                                                |  |  | White "I" on green background               |  | ZB5 AW7L3741 | 0.023 |
|  |                                                                                |  |  | White "O" on red background                 |  |              |       |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(3) Caps to be ordered separately: see page opposite.

(4) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body sub-assembly.

(5) Only for use with bodies comprising a light source with integral LED.

New

General :  
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Characteristics :  
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Dimensions :  
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User assembly of other units, using:  
body-contacts assemblies: see page 120  
combined sub-assemblies: see page 126

# Control and signalling units Ø 22

Harmony® XB5 plastic

Multiple-headed pushbuttons, spring return



XB5 AA731327



ZB5 AA73133



ZB5 AA71124



ZBA 7235



ZBA 7331



ZBA 7432



ZBA 709

## Triple-headed pushbuttons (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Description | Type of contact |     |     | Colour and marking of caps (3) | Reference | Weight |
|---------------|-------------|-----------------|-----|-----|--------------------------------|-----------|--------|
|               |             |                 |     |     |                                |           | kg     |
|               |             | N/O             | N/C | N/O |                                |           |        |

### Complete units

|  |                                                                             |   |   |   |                                                                 |              |       |
|--|-----------------------------------------------------------------------------|---|---|---|-----------------------------------------------------------------|--------------|-------|
|  | 2 flush black pushes + 1 central projecting red push marked "Stop" in white | 1 | 1 | 1 | White "I" on green background<br>White "II" on green background | XB5 AA731327 | 0.063 |
|  |                                                                             |   |   |   | Black "→" on white background<br>White "←" on black background  | XB5 AA711237 | 0.063 |

### Heads only

|  |                                                                             |  |  |  |                                                                 |             |       |
|--|-----------------------------------------------------------------------------|--|--|--|-----------------------------------------------------------------|-------------|-------|
|  | 2 flush black pushes + 1 central projecting red push marked "Stop" in white |  |  |  | White "I" on green background<br>White "II" on green background | ZB5 AA73132 | 0.023 |
|  |                                                                             |  |  |  | White "←" on green background<br>White "→" on green background  | ZB5 AA73133 | 0.023 |
|  |                                                                             |  |  |  | White "↑" on green background<br>White "↓" on green background  | ZB5 AA73134 | 0.023 |
|  |                                                                             |  |  |  | White "+" on green background<br>White "-" on green background  | ZB5 AA73135 | 0.023 |
|  |                                                                             |  |  |  | Black "+" on white background<br>Black "-" on white background  | ZB5 AA71115 | 0.023 |
|  |                                                                             |  |  |  | Black "→" on white background<br>White "←" on black background  | ZB5 AA71123 | 0.023 |
|  |                                                                             |  |  |  | Black "↑" on white background<br>White "↓" on black background  | ZB5 AA71124 | 0.023 |
|  |                                                                             |  |  |  | White "↑" on black background<br>White "↓" on black background  | ZB5 AA72124 | 0.023 |
|  |                                                                             |  |  |  | Without cap (4)                                                 | ZB5 AA791   | 0.023 |

## Specific accessories for multiple-headed pushbuttons

| Description                                                               | Background colour                    | Marking    | Sold in lots of | Reference | Weight |
|---------------------------------------------------------------------------|--------------------------------------|------------|-----------------|-----------|--------|
| Caps only for clip-on mounting on double or triple-headed pushbuttons (5) | White                                | Unmarked   | 10              | ZBA 71    | 0.010  |
|                                                                           |                                      | "I" black  | 10              | ZBA 7131  | 0.010  |
|                                                                           |                                      | "↑" black  | 10              | ZBA 7134  | 0.010  |
|                                                                           |                                      | "+" black  | 10              | ZBA 7138  | 0.010  |
|                                                                           | Black                                | Unmarked   | 10              | ZBA 72    | 0.010  |
|                                                                           |                                      | "O" white  | 10              | ZBA 7232  | 0.010  |
|                                                                           |                                      | "+" white  | 10              | ZBA 7233  | 0.010  |
|                                                                           |                                      | "↓" white  | 10              | ZBA 7235  | 0.010  |
|                                                                           |                                      | "I" white  | 10              | ZBA 7237  | 0.010  |
|                                                                           | Green                                | Unmarked   | 10              | ZBA 73    | 0.010  |
|                                                                           |                                      | "I" white  | 10              | ZBA 7331  | 0.010  |
|                                                                           |                                      | "+" white  | 10              | ZBA 7333  | 0.010  |
|                                                                           |                                      | "↓" white  | 10              | ZBA 7335  | 0.010  |
|                                                                           |                                      | "II" white | 10              | ZBA 7336  | 0.010  |
|                                                                           | Red                                  | Unmarked   | 10              | ZBA 74    | 0.010  |
|                                                                           |                                      | "O" white  | 10              | ZBA 7432  | 0.010  |
|                                                                           | Yellow                               | Unmarked   | 10              | ZBA 75    | 0.010  |
|                                                                           | Blue                                 | Unmarked   | 10              | ZBA 76    | 0.010  |
| Clear silicone boots (6)                                                  | For 2 flush pushes                   | —          | 10              | ZBA 708   | 0.055  |
|                                                                           | For 3 pushes                         | —          | 10              | ZBA 709   | 0.055  |
|                                                                           | For 1 flush push + 1 projecting push | —          | 10              | ZBA 710   | 0.055  |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Not compatible with high power switching contacts and contacts for printed circuit board.

(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(4) Caps to be ordered separately: see accessories on this page.

(5) Can be clipped-in at 90° steps, through 360°.

(6) Can be replaced without dismantling the head.

New

General :  
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Characteristics :  
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Dimensions :  
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Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Mushroom head pushbuttons, spring return

### Mushroom head pushbuttons (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of push | Type of contact                                                                   |                                                                                   | Push Ø (mm) | Colour | Reference | Weight |
|---------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------|--------|-----------|--------|
|               |              |  |  |             |        |           |        |
|               |              | N/O                                                                               | N/C                                                                               |             |        |           | kg     |

#### Complete units

|                                                                                   |               |   |   |    |       |                                          |       |
|-----------------------------------------------------------------------------------|---------------|---|---|----|-------|------------------------------------------|-------|
|  | Mushroom head | 1 | — | 40 | Black | <b>XB5 AC21</b><br>(ZB5 AZ101 + ZB5 AC2) | 0.062 |
|-----------------------------------------------------------------------------------|---------------|---|---|----|-------|------------------------------------------|-------|

#### Heads only

|                                                                                     |               |  |  |                         |        |                  |       |
|-------------------------------------------------------------------------------------|---------------|--|--|-------------------------|--------|------------------|-------|
|    | Mushroom head |  |  | 30                      | Black  | <b>ZB5 AC24</b>  | 0.027 |
|                                                                                     |               |  |  |                         | Green  | <b>ZB5 AC34</b>  | 0.027 |
|                                                                                     |               |  |  |                         | Red    | <b>ZB5 AC44</b>  | 0.027 |
|                                                                                     |               |  |  |                         | Yellow | <b>ZB5 AC54</b>  | 0.027 |
|                                                                                     |               |  |  |                         | Blue   | <b>ZB5 AC64</b>  | 0.027 |
|   |               |  |  | 40                      | Black  | <b>ZB5 AC2</b>   | 0.046 |
|                                                                                     |               |  |  |                         | Green  | <b>ZB5 AC3</b>   | 0.046 |
|                                                                                     |               |  |  |                         | Red    | <b>ZB5 AC4</b>   | 0.046 |
|                                                                                     |               |  |  |                         | Yellow | <b>ZB5 AC5</b>   | 0.046 |
|                                                                                     |               |  |  |                         | Blue   | <b>ZB5 AC6</b>   | 0.046 |
|  |               |  |  | 60                      | Black  | <b>ZB5 AR2</b>   | 0.065 |
|                                                                                     |               |  |  |                         | Green  | <b>ZB5 AR3</b>   | 0.065 |
|                                                                                     |               |  |  |                         | Red    | <b>ZB5 AR4</b>   | 0.065 |
|                                                                                     |               |  |  |                         | Yellow | <b>ZB5 AR5</b>   | 0.065 |
|                                                                                     |               |  |  |                         | Blue   | <b>ZB5 AR6</b>   | 0.065 |
|  |               |  |  | 60 (3)<br>Hemispherical | Black  | <b>ZB5 AR216</b> | 0.048 |
|                                                                                     |               |  |  |                         | Green  | <b>ZB5 AR316</b> | 0.048 |
|                                                                                     |               |  |  |                         | Red    | <b>ZB5 AR416</b> | 0.048 |
|                                                                                     |               |  |  |                         | Yellow | <b>ZB5 AR516</b> | 0.048 |
|                                                                                     |               |  |  |                         | Blue   | <b>ZB5 AR616</b> | 0.048 |

(1) These pushbuttons and heads cannot be used for an Emergency Stop function.

Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head: 6.

## References

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Mushroom head pushbuttons, latching

### Mushroom head pushbuttons (1) (2)

| Shape of head                                                                       | Type of reset                                                                                                                                             | Push Ø (mm) | Colour | Reference    | Weight kg |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|--------------|-----------|
| Heads only                                                                          |                                                                                                                                                           |             |        |              |           |
|    | Push-pull                                                                                                                                                 | 30          | Black  | ZB5 AT24     | 0.044     |
|                                                                                     |                                                                                                                                                           | 40          | Black  | ZB5 AT2      | 0.049     |
|                                                                                     |                                                                                                                                                           | 60          | Black  | ZB5 AX2      | 0.067     |
|    | Turn to release                                                                                                                                           | 30          | Black  | ZB5 AS42     | 0.040     |
|                                                                                     |                                                                                                                                                           | 40          | Black  | ZB5 AS52     | 0.044     |
|                                                                                     |                                                                                                                                                           | 40          | Yellow | ZB5 AS55     | 0.044     |
|                                                                                     |                                                                                                                                                           | 60          | Black  | ZB5 AS62     | 0.064     |
|  | Key release<br>(key n° 455)<br>(2 keys included with head) (3)<br> (5) | 30          | Black  | ZB5 AS72     | 0.040     |
|                                                                                     |                                                                                                                                                           | 40          | Black  | ZB5 AS12 (4) | 0.044     |
|                                                                                     |                                                                                                                                                           | 60          | Black  | ZB5 AS22     | 0.064     |

### Illuminated mushroom head pushbuttons (2)

| Shape of head                                                                                    | Type of reset                                                                                               | Push Ø (mm) | Colour | Reference | Weight kg |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------|--------|-----------|-----------|
| <b>Heads only (6)</b>                                                                            |                                                                                                             |             |        |           |           |
| <br>ZB5 AW733 | <br><b>Protected LED</b> | 40          | White  | ZB5 AW713 | 0.022     |
|                                                                                                  |                                                                                                             |             | Green  | ZB5 AW733 | 0.022     |
|                                                                                                  |                                                                                                             |             | Orange | ZB5 AW753 | 0.022     |
|                                                                                                  |                                                                                                             |             | Blue   | ZB5 AW763 | 0.022     |

(1) These pushbuttons and heads cannot be used for an Emergency Stop function.

Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(3) For specific keys with other numbers, please consult your Regional Sales Office.

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.
- key n° 458A: add suffix **10** to the reference.
- key n° 520E: add suffix **14** to the reference.
- key n° 3131A: add suffix **20** to the reference.

Example: To order a Ø 40 black mushroom head for a latching pushbutton, with release by key n° 421E, the reference becomes: **ZB5 AS1212**.

(5) The symbol  indicates key withdrawal position(s).

(6) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:  
body/contact assemblies: see page 120  
combined sub-assemblies: see page 126  
accessories: see pages 141 and 142

## Control and signalling units Ø 22

Harmony® XB5, plastic

Emergency stop devices

Conforming to EN/IEC 60204-1 and

EN/ISO 13850:2006 and Machinery Directive 98/37/EC

Mushroom head Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850:2006, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

### Emergency stop trigger action and mechanical latching pushbuttons <sup>(1) (2)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of reset | Type of contact                                                                       | Push Ø (mm) | Colour | Reference | Weight kg |
|---------------|---------------|---------------------------------------------------------------------------------------|-------------|--------|-----------|-----------|
|               |               |  N/O |             |        |           |           |
|               |               |  N/C |             |        |           |           |

#### Complete units

|                                                                                   |                                                                                                                   |   |   |    |     |                                              |       |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---|---|----|-----|----------------------------------------------|-------|
|  | Push-pull                                                                                                         | 1 | 1 | 40 | Red | <b>XB5 AT845</b><br>(ZB5 AZ105 + ZB5 AT84)   | 0.076 |
|  | Turn to release                                                                                                   | 1 | 1 | 40 | Red | <b>XB5 AS8445</b><br>(ZB5 AZ105 + ZB5 AS844) | 0.072 |
|                                                                                   |                                                                                                                   | — | 2 | 40 | Red | <b>XB5 AS8444</b><br>(ZB5 AZ104 + ZB5 AS844) | 0.072 |
|  | Key release (key n° 455)<br> (3) | 1 | 1 | 40 | Red | <b>XB5 AS9445</b><br>(ZB5 AZ105 + ZB5 AS944) | 0.112 |

#### Heads only

| Shape of head                                                                       | Type of reset                                                                                                                                        | Push Ø (mm) | Colour | Reference            | Weight kg |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|----------------------|-----------|
|   | Push-pull                                                                                                                                            | 30          | Red    | <b>ZB5 AT844 ▲</b>   | 0.050     |
|                                                                                     |                                                                                                                                                      | 40          | Red    | <b>ZB5 AT84</b>      | 0.050     |
|                                                                                     |                                                                                                                                                      | 60          | Red    | <b>ZB5 AX84</b>      | 0.050     |
|  | Turn to release                                                                                                                                      | 30          | Red    | <b>ZB5 AS834</b>     | 0.042     |
|                                                                                     |                                                                                                                                                      | 40          | Red    | <b>ZB5 AS844</b>     | 0.046     |
|  | Key release (key n° 455)<br>2 keys included with head (5)<br> (3) | 30          | Red    | <b>ZB5 AS934</b>     | 0.068     |
|                                                                                     |                                                                                                                                                      | 40          | Red    | <b>ZB5 AS944 (4)</b> | 0.071     |
|                                                                                     |                                                                                                                                                      | 60          | Red    | <b>ZB5 AS964</b>     | 0.092     |
|                                                                                     | Key release (key n° 4A185) (5)                                                                                                                       | 40          | Red    | <b>ZB5 AS944D</b>    | 0.071     |

#### Bellows for harsh environments (IP 69K)

| For use in                                                           | Material | Colour | Sold in lots of | Unit reference | Weight kg |
|----------------------------------------------------------------------|----------|--------|-----------------|----------------|-----------|
| Environments subject to humidity, dust, high pressure cleaning, etc. | Silicone | Red    | 2               | <b>ZBZ 48</b>  | 0.009     |
|                                                                      | EPDM     | Black  | 2               | <b>ZBZ 28</b>  | 0.009     |
|                                                                      |          | Yellow | 2               | <b>ZBZ 58</b>  | 0.009     |

### Illuminated Emergency stop trigger action and mechanical latching pushbuttons with mechanical state indicator <sup>(1)</sup>

For elevator inspection box applications

#### Heads only <sup>(7)</sup>

| Shape of head                                                                       | Type of reset | Push Ø (mm) | Colour | Reference          | Weight kg |
|-------------------------------------------------------------------------------------|---------------|-------------|--------|--------------------|-----------|
|  | Push-pull (6) | 40          | Red    | <b>ZB5 AT8643M</b> | 0.034     |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.
- key n° 458A: add suffix **10** to the reference.
- key n° 520E: add suffix **14** to the reference.
- key n° 3131A: add suffix **20** to the reference.
- key n° 4A185: add suffix **D** to the reference.

Example: To order a Ø 40 red mushroom head for a trigger action and mechanical latching Emergency stop pushbutton, with release by key n° 421E, the reference becomes: **ZB5 AS94412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

(6) Cannot be used with metal guards ZBZ 160●.

(7) Only for use with bodies comprising a light source with integral LED.



XB5 AT845



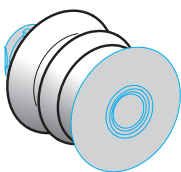
XB5 AS8445



XB5 AS9445



ZB5 AS844



ZBZ 48



ZB5 AT8643M

▲ Available:  
1st quarter 2009.

Assembly of other products using:  
body/contact assemblies: see page 120  
combined sub-assemblies: see page 126  
accessories: see pages 141 and 142

# Control and signalling units Ø 22

Harmony® XB5, plastic

Emergency switching off devices

Conforming to IEC 60364-5-53

Mushroom head switching off mechanical latching pushbuttons conform to standards IEC 60364-5-53 and EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

## Emergency switching off, mechanical latching pushbuttons <sup>(1)</sup> <sup>(2)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Screw terminal connections (Conductor Electric anti-lightening system)              |                                                                                                                                                      |                                                                                          |                                                                                          |      |        |                                            |        |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------|--------|--------------------------------------------|--------|
| Shape of head                                                                       | Type of reset                                                                                                                                        | Type of contact                                                                          |                                                                                          | Push | Colour | Reference                                  | Weight |
|                                                                                     |                                                                                                                                                      | <br>N/O | <br>N/C | Ø mm |        |                                            |        |
| kg                                                                                  |                                                                                                                                                      |                                                                                          |                                                                                          |      |        |                                            |        |
| Complete units                                                                      |                                                                                                                                                      |                                                                                          |                                                                                          |      |        |                                            |        |
|    | Push-pull                                                                                                                                            | —                                                                                        | 1                                                                                        | 40   | Red    | <b>XB5 AT42</b><br>(ZB5 AZ102 + ZB5 AT4)   | 0.065  |
|    | Turn to release                                                                                                                                      | —                                                                                        | 1                                                                                        | 40   | Red    | <b>XB5 AS542</b><br>(ZB5 AZ102 + ZB5 AS54) | 0.060  |
|    | Key release<br>(key n° 455)<br> (3)                                 | —                                                                                        | 1                                                                                        | 40   | Red    | <b>XB5 AS142</b><br>(ZB5 AZ102 + ZB5 AS14) | 0.075  |
| Heads only                                                                          |                                                                                                                                                      |                                                                                          |                                                                                          |      |        |                                            |        |
|   | Push-pull                                                                                                                                            |                                                                                          |                                                                                          | 30   | Red    | <b>ZB5 AT44</b>                            | 0.049  |
|                                                                                     |                                                                                                                                                      |                                                                                          |                                                                                          | 40   | Red    | <b>ZB5 AT4</b>                             | 0.049  |
|                                                                                     |                                                                                                                                                      |                                                                                          |                                                                                          | 60   | Red    | <b>ZB5 AX4</b>                             | 0.067  |
|  | Turn to release                                                                                                                                      |                                                                                          |                                                                                          | 30   | Red    | <b>ZB5 AS44</b>                            | 0.040  |
|                                                                                     |                                                                                                                                                      |                                                                                          |                                                                                          | 40   | Red    | <b>ZB5 AS54</b>                            | 0.044  |
|                                                                                     |                                                                                                                                                      |                                                                                          |                                                                                          | 60   | Red    | <b>ZB5 AS64</b>                            | 0.064  |
|  | Key release (key n° 455)<br>2 keys included with head (5)<br> (3) |                                                                                          |                                                                                          | 30   | Red    | <b>ZB5 AS74</b>                            | 0.040  |
|                                                                                     |                                                                                                                                                      |                                                                                          |                                                                                          | 40   | Red    | <b>ZB5 AS14 (4)</b>                        | 0.044  |
|                                                                                     |                                                                                                                                                      |                                                                                          |                                                                                          | 60   | Red    | <b>ZB5 AS24</b>                            | 0.060  |
| Key release (key n° 4A185)                                                          |                                                                                                                                                      |                                                                                          |                                                                                          | 40   | Red    | <b>ZB5 AS14D</b>                           | 0.044  |

## Illuminated Emergency switching off, mechanical latching pushbuttons <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                       | Type of reset   | Push<br>Ø (mm) | Colour | Reference        | Weight<br>kg |
|-------------------------------------------------------------------------------------|-----------------|----------------|--------|------------------|--------------|
| <b>Heads only <sup>(6)</sup></b>                                                    |                 |                |        |                  |              |
|  | Turn to release | 40             | Red    | <b>ZB5 AW743</b> | 0.022        |
|  |                 |                |        |                  |              |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.

- key n° 458A: add suffix **10** to the reference.

- key n° 520E: add suffix **14** to the reference.

- key n° 3131A: add suffix **20** to the reference.

Example: To order a Ø 40 red mushroom head for a mechanical latching Emergency switching off pushbutton, with release by key n° 421E, the reference becomes: **ZB5 AS1412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

(6) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:  
body/contact assemblies: see page 120  
combined sub-assemblies: see page 126  
accessories: see page 136



ZB5 AH04

| Pushbuttons with flush push <sup>(1)</sup>                                        |                            |                |           |           |
|-----------------------------------------------------------------------------------|----------------------------|----------------|-----------|-----------|
| Shape of head                                                                     | Type of push               | Colour of push | Reference | Weight kg |
| Heads only, circular                                                              |                            |                |           |           |
|  | Without cap <sup>(2)</sup> | –              | ZB5 AH0   | 0.018     |
|  | Flush                      | White          | ZB5 AH01  | 0.018     |
|                                                                                   |                            | Black          | ZB5 AH02  | 0.018     |
|                                                                                   |                            | Green          | ZB5 AH03  | 0.018     |
|                                                                                   |                            | Red            | ZB5 AH04  | 0.018     |
|                                                                                   |                            | Yellow         | ZB5 AH05  | 0.018     |
|                                                                                   |                            | Blue           | ZB5 AH06  | 0.018     |
| Heads only, square                                                                |                            |                |           |           |
|  | Without cap <sup>(2)</sup> | –              | ZB5 CH0   | 0.020     |
|  | Flush                      | White          | ZB5 CH01  | 0.020     |
|                                                                                   |                            | Black          | ZB5 CH02  | 0.020     |
|                                                                                   |                            | Green          | ZB5 CH03  | 0.020     |
|                                                                                   |                            | Red            | ZB5 CH04  | 0.020     |
|                                                                                   |                            | Yellow         | ZB5 CH05  | 0.020     |
|                                                                                   |                            | Blue           | ZB5 CH06  | 0.020     |

| Pushbuttons with projecting push <sup>(1)</sup> |              |                |           |           |
|-------------------------------------------------|--------------|----------------|-----------|-----------|
| Shape of head                                   | Type of push | Colour of push | Reference | Weight kg |
| Heads only, circular                            |              |                |           |           |
|                                                 | Projecting   | White          | ZB5 AH1   | 0.018     |
|                                                 |              | Black          | ZB5 AH2   | 0.018     |
|                                                 |              | Green          | ZB5 AH3   | 0.018     |
|                                                 |              | Red            | ZB5 AH4   | 0.018     |
|                                                 |              | Yellow         | ZB5 AH5   | 0.018     |
|                                                 |              | Blue           | ZB5 AH6   | 0.018     |

| Illuminated pushbuttons with flush push <sup>(1)</sup>                              |              |                |           |           |
|-------------------------------------------------------------------------------------|--------------|----------------|-----------|-----------|
| Shape of head                                                                       | Type of push | Colour of push | Reference | Weight kg |
| Heads only, circular <sup>(3)</sup>                                                 |              |                |           |           |
|  | Flush        | White          | ZB5 AH013 | 0.017     |
|                                                                                     |              | Green          | ZB5 AH033 | 0.017     |
|                                                                                     |              | Red            | ZB5 AH043 | 0.017     |
|                                                                                     |              | Orange         | ZB5 AH053 | 0.017     |
|                                                                                     |              | Blue           | ZB5 AH063 | 0.017     |
| Heads only, square <sup>(3)</sup>                                                   |              |                |           |           |
|  | Flush        | White          | ZB5 CH313 | 0.018     |
|                                                                                     |              | Green          | ZB5 CH333 | 0.018     |
|                                                                                     |              | Red            | ZB5 CH343 | 0.018     |
|                                                                                     |              | Orange         | ZB5 CH353 | 0.018     |
|                                                                                     |              | Blue           | ZB5 CH363 | 0.018     |

| Illuminated pushbuttons with projecting push <sup>(1)</sup> |              |                |           |           |
|-------------------------------------------------------------|--------------|----------------|-----------|-----------|
| Shape of head                                               | Type of push | Colour of push | Reference | Weight kg |
| Heads only, circular <sup>(3)</sup>                         |              |                |           |           |
|                                                             | Projecting   | White          | ZB5 AH13  | 0.017     |
|                                                             |              | Green          | ZB5 AH33  | 0.017     |
|                                                             |              | Red            | ZB5 AH43  | 0.017     |
|                                                             |              | Orange         | ZB5 AH53  | 0.017     |
|                                                             |              | Blue           | ZB5 AH63  | 0.017     |

<sup>(1)</sup> Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

<sup>(2)</sup> Caps to be ordered separately, see page 132.

<sup>(3)</sup> Only for use with bodies comprising a light source with integral LED.

# Control and signalling units Ø 22

Harmony® XB5, plastic

Pushbuttons, "push-turn to release"

523836



ZB5 AFDA

| Pushbuttons with key-operated push <sup>(1)</sup>                                 |              |                   |                   |            |           |
|-----------------------------------------------------------------------------------|--------------|-------------------|-------------------|------------|-----------|
| Shape of head                                                                     | Type of push | Locking           | Key withdrawal    | Reference  | Weight kg |
| Heads only                                                                        |              |                   |                   |            |           |
|  | Key n° 4A185 | Both positions    | Both positions    | ZB5 AFDA   | 0.050     |
|                                                                                   |              | Actuated position | Actuated position | ZB5 AFDB   | 0.050     |
|                                                                                   |              | Rest position     | Rest position     | ZB5 AFDC   | 0.050     |
|                                                                                   |              | Actuated position | Both positions    | ZB5 AFDD   | 0.050     |
|                                                                                   | Key LU1      | Both positions    | Both positions    | ZB5 AFDE01 | 0.050     |
|                                                                                   | Key LU2      | Both positions    | Both positions    | ZB5 AFDE02 | 0.050     |
|                                                                                   | Key LU3      | Both positions    | Both positions    | ZB5 AFDE03 | 0.050     |
|                                                                                   | Key LU4      | Both positions    | Both positions    | ZB5 AFDE04 | 0.050     |
|                                                                                   | Key LU5      | Both positions    | Both positions    | ZB5 AFDE05 | 0.050     |
|                                                                                   | Key LU6      | Both positions    | Both positions    | ZB5 AFDE06 | 0.050     |
|                                                                                   | Key LU7      | Both positions    | Both positions    | ZB5 AFDE07 | 0.050     |
|                                                                                   | Key LU8      | Both positions    | Both positions    | ZB5 AFDE08 | 0.050     |
|                                                                                   | Key LU9      | Both positions    | Both positions    | ZB5 AFDE09 | 0.050     |
|                                                                                   | Key LU10     | Both positions    | Both positions    | ZB5 AFDE10 | 0.050     |
|                                                                                   | Key LU11     | Both positions    | Both positions    | ZB5 AFDE11 | 0.050     |
|                                                                                   | Key LU12     | Both positions    | Both positions    | ZB5 AFDE12 | 0.050     |
|                                                                                   | Key LU13     | Both positions    | Both positions    | ZB5 AFDE13 | 0.050     |
|                                                                                   | Key LU14     | Both positions    | Both positions    | ZB5 AFDE14 | 0.050     |
|                                                                                   | Key LU15     | Both positions    | Both positions    | ZB5 AFDE15 | 0.050     |

110321



ZB5 AF

| Pushbuttons with knurled push <sup>(1)</sup>                                        |                                    |                               |           |           |
|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------|-----------|-----------|
| Shape of head                                                                       | Type of push                       | Marking                       | Reference | Weight kg |
| Heads only                                                                          |                                    |                               |           |           |
|  | Knurled without cap <sup>(2)</sup> | —                             | ZB5 AF    | 0.027     |
|                                                                                     | Knurled with marked cap            | ↑ (white on black background) | ZB5 AF351 | 0.030     |

110322



ZB5 AF351

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Coloured caps to be ordered separately: see page 132.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136

# Control and signalling units Ø 22

Harmony® XB5, plastic

Selector switches with standard handle

## Selector switches with standard handle <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of operator | Type of contact                                                                          |                                                                                          | Positions |      | Reference | Weight |
|---------------|------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------|------|-----------|--------|
|               |                  | <br>N/O | <br>N/C | Number    | Type |           |        |

### Complete units

|                                                                                   |                        |   |   |                     |                                        |                                                                                     |                                          |       |
|-----------------------------------------------------------------------------------|------------------------|---|---|---------------------|----------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|-------|
|  | Standard handle, black | 1 | — | 2-position<br>90°   | Stay put                               |  | <b>XB5 AD21</b><br>(ZB5 AZ101 + ZB5 AD2) | 0.043 |
|                                                                                   |                        | 1 | — |                     | Spring return<br>from right<br>to left |  | <b>XB5 AD41</b><br>(ZB5 AZ101 + ZB5 AD4) | 0.046 |
|                                                                                   |                        | 1 | 1 |                     | Stay put                               |  | <b>XB5 AD25</b><br>(ZB5 AZ105 + ZB5 AD2) | 0.043 |
|                                                                                   |                        | 2 | — | 3-position<br>± 45° | Stay put                               |  | <b>XB5 AD33</b><br>(ZB5 AZ103 + ZB5 AD3) | 0.043 |
|                                                                                   |                        |   |   |                     | Spring return<br>to centre             |  | <b>XB5 AD53</b><br>(ZB5 AZ103 + ZB5 AD5) | 0.043 |

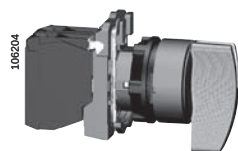
### Heads only

|                                                                                     |                        |  |  |                     |                                          |                                                                                       |                |       |
|-------------------------------------------------------------------------------------|------------------------|--|--|---------------------|------------------------------------------|---------------------------------------------------------------------------------------|----------------|-------|
|  | Standard handle, black |  |  | 2-position<br>90°   | Stay put                                 |  | <b>ZB5 AD2</b> | 0.017 |
|                                                                                     |                        |  |  |                     | Spring return<br>from right<br>to left   |  | <b>ZB5 AD4</b> | 0.020 |
|                                                                                     |                        |  |  | 3-position<br>± 45° | Stay put                                 |  | <b>ZB5 AD3</b> | 0.017 |
|                                                                                     |                        |  |  |                     | Spring return<br>to centre               |  | <b>ZB5 AD5</b> | 0.017 |
|                                                                                     |                        |  |  |                     | Spring return<br>from left to<br>centre  |  | <b>ZB5 AD7</b> | 0.017 |
|                                                                                     |                        |  |  |                     | Spring return<br>from right to<br>centre |  | <b>ZB5 AD8</b> | 0.017 |

### Heads only with other coloured handles

|                                                                                     |                         |                                                                  |
|-------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------|
|  | Standard handle, white  | add suffix <b>01</b> to the reference, example: <b>ZB5 AD201</b> |
|                                                                                     | Standard handle, green  | add suffix <b>03</b> to the reference, example: <b>ZB5 AD203</b> |
|                                                                                     | Standard handle, red    | add suffix <b>04</b> to the reference, example: <b>ZB5 AD204</b> |
|                                                                                     | Standard handle, yellow | add suffix <b>05</b> to the reference, example: <b>ZB5 AD205</b> |
|                                                                                     | Standard handle, blue   | add suffix <b>06</b> to the reference, example: <b>ZB5 AD206</b> |

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.



ZB5 AJ3



ZB5 AJ

| Selector switches with long handle (1)                                            |                    |                                                                                          |                                                                                          |                  |                                    |                                                                                                                              |        |
|-----------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)    |                    |                                                                                          |                                                                                          |                  |                                    |                                                                                                                              |        |
| Shape of head                                                                     | Type of operator   | Type of contact                                                                          |                                                                                          | Positions        |                                    | Reference                                                                                                                    | Weight |
|                                                                                   |                    | <br>N/O | <br>N/C | Number           | Type                               |                                                                                                                              |        |
| Complete units                                                                    |                    |                                                                                          |                                                                                          |                  |                                    |                                                                                                                              |        |
|  | Long handle, black | 1                                                                                        | —                                                                                        | 2-position 90°   | Stay put                           |  <b>XB5 AJ21</b><br>(ZB5 AZ101 + ZB5 AJ2) | 0.043  |
|                                                                                   |                    | 2                                                                                        | —                                                                                        | 3-position ± 45° | Stay put                           |  <b>XB5 AJ33</b><br>(ZB5 AZ103 + ZB5 AJ3) | 0.043  |
|                                                                                   |                    |                                                                                          |                                                                                          |                  | Spring return to centre            |  <b>XB5 AJ53</b><br>(ZB5 AZ103 + ZB5 AJ5) | 0.043  |
| Heads only                                                                        |                    |                                                                                          |                                                                                          |                  |                                    |                                                                                                                              |        |
|  | Long handle, black |                                                                                          |                                                                                          | 2-position 90°   | Stay put                           |  <b>ZB5 AJ2</b>                           | 0.017  |
|                                                                                   |                    |                                                                                          |                                                                                          |                  | Spring return from right to left   |  <b>ZB5 AJ4</b>                           | 0.020  |
|                                                                                   |                    |                                                                                          |                                                                                          | 3-position ± 45° | Stay put                           |  <b>ZB5 AJ3</b>                           | 0.017  |
|                                                                                   |                    |                                                                                          |                                                                                          |                  | Spring return to centre            |  <b>ZB5 AJ5</b>                          | 0.017  |
|                                                                                   |                    |                                                                                          |                                                                                          |                  | Spring return from left to centre  |  <b>ZB5 AJ7</b>                         | 0.017  |
|                                                                                   |                    |                                                                                          |                                                                                          |                  | Spring return from right to centre |  <b>ZB5 AJ8</b>                         | 0.017  |

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Key switches

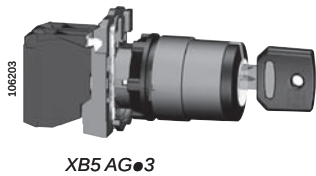
Key n° 455, 8D1, 421E, 458A, 520E or 3131A

### Key switches (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of operator | Type of contact |     | Positions |          | Reference | Weight |
|---------------|------------------|-----------------|-----|-----------|----------|-----------|--------|
|               |                  | N/O             | N/C | Number    | Type (2) |           |        |

#### Complete units



Key switch  
with key n° 455

|   |   |                     |                          |  |                                          |       |
|---|---|---------------------|--------------------------|--|------------------------------------------|-------|
| 1 | — | 2-position<br>90°   | Stay put                 |  | <b>XB5 AG21</b><br>(ZB5 AZ101 + ZB5 AG2) | 0.831 |
|   |   |                     |                          |  | <b>XB5 AG41</b><br>(ZB5 AZ101 + ZB5 AG4) | 0.831 |
|   |   |                     | Spring return<br>to left |  | <b>XB5 AG61</b><br>(ZB5 AZ101 + ZB5 AG6) | 0.870 |
| 2 | — | 3-position<br>± 45° | Stay put                 |  | <b>XB5 AG03</b><br>(ZB5 AZ103 + ZB5 AG0) | 0.831 |
|   |   |                     |                          |  | <b>XB5 AG33</b><br>(ZB5 AZ103 + ZB5 AG3) | 0.831 |

#### Heads only



Key switch  
with key n° 455 (3) (4)

|                     |                                          |  |                 |       |
|---------------------|------------------------------------------|--|-----------------|-------|
| 2-position<br>90°   | Stay put                                 |  | <b>ZB5 AG2</b>  | 0.057 |
|                     |                                          |  | <b>ZB5 AG02</b> | 0.057 |
|                     |                                          |  | <b>ZB5 AG4</b>  | 0.057 |
|                     | Spring return<br>from right to left      |  | <b>ZB5 AG6</b>  | 0.061 |
| 3-position<br>± 45° | Stay put                                 |  | <b>ZB5 AG0</b>  | 0.057 |
|                     |                                          |  | <b>ZB5 AG3</b>  | 0.057 |
|                     |                                          |  | <b>ZB5 AG5</b>  | 0.057 |
|                     |                                          |  | <b>ZB5 AG9</b>  | 0.057 |
|                     | Spring return<br>from left to centre     |  | <b>ZB5 AG09</b> | 0.057 |
|                     |                                          |  | <b>ZB5 AG1</b>  | 0.057 |
|                     |                                          |  | <b>ZB5 AG7</b>  | 0.057 |
|                     |                                          |  | <b>ZB5 AG8</b>  | 0.057 |
|                     | Spring return<br>from right to<br>centre |  | <b>ZB5 AG05</b> | 0.057 |
|                     |                                          |  | <b>ZB5 AG08</b> | 0.057 |



(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) The symbol indicates key withdrawal position(s).

(3) Other key numbers:

- key n° 421E: add suffix **12** to the reference.

- key n° 458A: add suffix **10** to the reference.

- key n° 520E: add suffix **14** to the reference.

- key n° 3131A: add suffix **20** to the reference.

Example: For a switch head with key n° 421E, 2-position stay put with key withdrawal from the left-hand position, the reference becomes: **ZB5 AG212**.

(4) For specific keys with other numbers, please consult your Regional Sales Office.

| Key switches (continued) (1)                                                      |                            |                  |                                    |                                                                                       |           |           |
|-----------------------------------------------------------------------------------|----------------------------|------------------|------------------------------------|---------------------------------------------------------------------------------------|-----------|-----------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)    |                            |                  |                                    |                                                                                       |           |           |
| Shape of head                                                                     | Type of operator           | Positions (2)    |                                    | Reference                                                                             |           | Weight kg |
|                                                                                   |                            | Number           | Type                               |                                                                                       |           |           |
|  | Key switch with key n° 8D1 | 2-position 90°   | Stay put                           |    | ZB5 AG2D  | 0.057     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG02D | 0.057     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG4D  | 0.057     |
|                                                                                   |                            | 3-position ± 45° | Spring return from right to left   |    | ZB5 AG6D  | 0.061     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG0D  | 0.057     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG3D  | 0.057     |
|                                                                                   |                            |                  | Stay put                           |    | ZB5 AG5D  | 0.057     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG9D  | 0.057     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG09D | 0.057     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG03D | 0.057     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG04D | 0.057     |
|                                                                                   |                            |                  | Spring return from left to centre  |    | ZB5 AG06D | 0.057     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG1D  | 0.057     |
|                                                                                   |                            |                  |                                    |    | ZB5 AG07D | 0.057     |
|                                                                                   |                            |                  | Spring return from right to centre |   | ZB5 AG8D  | 0.057     |
|                                                                                   |                            |                  |                                    |  | ZB5 AG08D | 0.057     |
|                                                                                   |                            |                  |                                    |  | ZB5 AG05D | 0.057     |
|                                                                                   |                            |                  | Spring return to centre            |  | ZB5 AG7D  | 0.057     |

| Selector switches with knurled knob (1)                                             |                    |                  |                                    |                                                                                       |          |           |
|-------------------------------------------------------------------------------------|--------------------|------------------|------------------------------------|---------------------------------------------------------------------------------------|----------|-----------|
| Shape of head                                                                       | Type of operator   | Positions        |                                    | Reference                                                                             |          | Weight kg |
|                                                                                     |                    | Number           | Type                               |                                                                                       |          |           |
| Heads only                                                                          |                    |                  |                                    |                                                                                       |          |           |
|  | Black knurled knob | 2-position 90°   | Stay put                           |  | ZB5 AD29 | 0.020     |
|                                                                                     |                    |                  | Spring return from right to left   |  | ZB5 AD49 | 0.024     |
|                                                                                     |                    | 3-position ± 45° | Stay put                           |  | ZB5 AD39 | 0.020     |
|                                                                                     |                    |                  | Spring return to centre            |  | ZB5 AD59 | 0.020     |
|                                                                                     |                    |                  | Spring return from left to centre  |  | ZB5 AD79 | 0.020     |
|                                                                                     |                    |                  | Spring return from right to centre |  | ZB5 AD89 | 0.020     |

| Toggle switches (1)                                                                 |                  |                |               |                                                                                       |            |           |
|-------------------------------------------------------------------------------------|------------------|----------------|---------------|---------------------------------------------------------------------------------------|------------|-----------|
| Shape of head                                                                       | Type of operator | Positions      |               | Reference                                                                             |            | Weight kg |
|                                                                                     |                  | Number         | Type          |                                                                                       |            |           |
| Heads only                                                                          |                  |                |               |                                                                                       |            |           |
|  | Black lever      | 2-position 90° | Stay put      |  | ZB5 AD28   | 0.023     |
|                                                                                     |                  |                | Spring return |  | ZB5 AD48   | 0.023     |
|                                                                                     | White lever      | 2-position 90° | Stay put      |  | ZB5 AD2801 | 0.023     |
|                                                                                     | Red lever        | 2-position 90° | Stay put      |  | ZB5 AD2804 | 0.023     |
|                                                                                     | Blue lever       | 2-position 90° | Stay put      |  | ZB5 AD2806 | 0.023     |
|                                                                                     |                  |                |               |  |            |           |
|                                                                                     |                  |                |               |  |            |           |
|                                                                                     |                  |                |               |  |            |           |

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) The symbol  indicates key withdrawal position(s)

Assembly of other products using:  
combined sub-assemblies: see page 126  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated selector switches with standard handle,  
with integral LED

### Illuminated selector switches with standard handle, with integral LED <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                                                                                                              | Type of operator                                          | Type of contact                                                                   | Positions Number Type                                                             | Supply voltage                                                                                                             | Colour of handle          | Reference                                                 | Weight |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------|--------|
|                                                                                                                                                                            |                                                           |  |  |                                                                                                                            |                           |                                                           |        |
|                                                                                                                                                                            |                                                           | N/O                                                                               | N/C                                                                               | V                                                                                                                          |                           |                                                           | kg     |
| Complete units                                                                                                                                                             |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           |                                                           |        |
| <br><br> | Standard handle                                           | 1                                                                                 | 1                                                                                 | 2-position<br>Stay put<br><br><br>90°     | ~ 24<br>(50/60 Hz)        | Green<br><b>XB5 AK123B5</b><br>(ZB5 AW0B35 + ZB5 AK1233)  | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Red<br><b>XB5 AK124B5</b><br>(ZB5 AW0B45 + ZB5 AK1243)    | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Orange<br><b>XB5 AK125B5</b><br>(ZB5 AW0B55 + ZB5 AK1253) | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            | ~ 110...120<br>(50/60 Hz) | Green<br><b>XB5 AK123G5</b><br>(ZB5 AW0G35 + ZB5 AK1233)  | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Red<br><b>XB5 AK124G5</b><br>(ZB5 AW0G45 + ZB5 AK1243)    | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Orange<br><b>XB5 AK125G5</b><br>(ZB5 AW0G55 + ZB5 AK1253) | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            | ~ 230...240<br>(50/60 Hz) | Green<br><b>XB5 AK123M5</b><br>(ZB5 AW0M35 + ZB5 AK1233)  | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Red<br><b>XB5 AK124M5</b><br>(ZB5 AW0M45 + ZB5 AK1243)    | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Orange<br><b>XB5 AK125M5</b><br>(ZB5 AW0M55 + ZB5 AK1253) | 0.516  |
|                                                                                                                                                                            |                                                           | 1                                                                                 | 1                                                                                 | 3-position<br>Stay put<br><br><br>± 45° | ~ 24<br>(50/60 Hz)        | Green<br><b>XB5 AK133B5</b><br>(ZB5 AW0B35 + ZB5 AK1333)  | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Red<br><b>XB5 AK134B5</b><br>(ZB5 AW0B45 + ZB5 AK1343)    | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Orange<br><b>XB5 AK135B5</b><br>(ZB5 AW0B55 + ZB5 AK1353) | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            | ~ 110...120<br>(50/60 Hz) | Green<br><b>XB5 AK133G5</b><br>(ZB5 AW0G35 + ZB5 AK1333)  | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Red<br><b>XB5 AK134G5</b><br>(ZB5 AW0G45 + ZB5 AK1343)    | 0.516  |
|                                                                                                                                                                            |                                                           |                                                                                   |                                                                                   |                                                                                                                            |                           | Orange<br><b>XB5 AK135G5</b><br>(ZB5 AW0G55 + ZB5 AK1353) | 0.516  |
| ~ 230...240<br>(50/60 Hz)                                                                                                                                                  | Green<br><b>XB5 AK133M5</b><br>(ZB5 AW0M35 + ZB5 AK1333)  | 0.516                                                                             |                                                                                   |                                                                                                                            |                           |                                                           |        |
|                                                                                                                                                                            | Red<br><b>XB5 AK134M5</b><br>(ZB5 AW0M45 + ZB5 AK1343)    | 0.516                                                                             |                                                                                   |                                                                                                                            |                           |                                                           |        |
|                                                                                                                                                                            | Orange<br><b>XB5 AK135M5</b><br>(ZB5 AW0M55 + ZB5 AK1353) | 0.516                                                                             |                                                                                   |                                                                                                                            |                           |                                                           |        |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

Assembly of other products using:  
combined sub-assemblies: see page 126  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated selector switches with standard handle,  
with integral LED

### Illuminated selector switches with standard handle, with integral LED (continued) (1)

| Shape of head                                                                                   | Type of operator | Positions           |                                    |                                                                                     | Colour of handle | Reference  | Weight kg |
|-------------------------------------------------------------------------------------------------|------------------|---------------------|------------------------------------|-------------------------------------------------------------------------------------|------------------|------------|-----------|
|                                                                                                 |                  | Number              | Type                               |                                                                                     |                  |            |           |
| <b>Heads only (2)</b>                                                                           |                  |                     |                                    |                                                                                     |                  |            |           |
| <br>ZB5 AK1263 | Standard handle  | 2-position<br>90°   | Stay put                           |    | White            | ZB5 AK1213 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Green            | ZB5 AK1233 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Red              | ZB5 AK1243 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Orange           | ZB5 AK1253 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Blue             | ZB5 AK1263 | 0.016     |
| <br>ZB5 AK1463 | Standard handle  | 2-position<br>90°   | Spring return from right to left   |    | White            | ZB5 AK1413 | 0.017     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Green            | ZB5 AK1433 | 0.017     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Red              | ZB5 AK1443 | 0.017     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Orange           | ZB5 AK1453 | 0.017     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Blue             | ZB5 AK1463 | 0.017     |
|                                                                                                 | Standard handle  | 3-position<br>± 45° | Stay put                           |    | White            | ZB5 AK1313 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Green            | ZB5 AK1333 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Red              | ZB5 AK1343 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Orange           | ZB5 AK1353 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Blue             | ZB5 AK1363 | 0.016     |
|                                                                                                 | Standard handle  | 3-position<br>± 45° | Spring return to centre            |  | White            | ZB5 AK1513 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Green            | ZB5 AK1533 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Red              | ZB5 AK1543 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Orange           | ZB5 AK1553 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Blue             | ZB5 AK1563 | 0.016     |
|                                                                                                 | Standard handle  | 3-position<br>± 45° | Spring return from right to centre |  | White            | ZB5 AK1813 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Green            | ZB5 AK1833 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Red              | ZB5 AK1843 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Orange           | ZB5 AK1853 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Blue             | ZB5 AK1863 | 0.016     |
|                                                                                                 | Standard handle  | 3-position<br>± 45° | Spring return from left to centre  |  | White            | ZB5 AK1713 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Green            | ZB5 AK1733 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Red              | ZB5 AK1743 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Orange           | ZB5 AK1753 | 0.016     |
|                                                                                                 |                  |                     |                                    |                                                                                     | Blue             | ZB5 AK1763 | 0.016     |

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:  
light block sub-assemblies: see page 128  
accessories: see pages 132 and 136

# Control and signalling units Ø 22

Harmony® XB5, plastic  
Pilot lights with integral LED

814388



XB5 AVB1

## Pilot lights with integral LED

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                                         | Supply voltage<br>V       | Colour | Reference                                 | Weight<br>kg |
|-------------------------------------------------------------------------------------------------------|---------------------------|--------|-------------------------------------------|--------------|
| <b>Complete units</b>                                                                                 |                           |        |                                           |              |
| ■ With plain lens                                                                                     |                           |        |                                           |              |
| <br>Protected<br>LED | ~ 24<br>(50/60 Hz)        | White  | <b>XB5 AVB1</b><br>(ZB5 AVB1 + ZB5 AV013) | 0.038        |
|                                                                                                       |                           | Green  | <b>XB5 AVB3</b><br>(ZB5 AVB3 + ZB5 AV033) | 0.038        |
|                                                                                                       |                           | Red    | <b>XB5 AVB4</b><br>(ZB5 AVB4 + ZB5 AV043) | 0.038        |
|                                                                                                       |                           | Orange | <b>XB5 AVB5</b><br>(ZB5 AVB5 + ZB5 AV053) | 0.038        |
|                                                                                                       |                           | Blue   | <b>XB5 AVB6</b><br>(ZB5 AVB6 + ZB5 AV063) | 0.038        |
|                                                                                                       |                           |        |                                           |              |
|                                                                                                       | ~ 110...120<br>(50/60 Hz) | White  | <b>XB5 AVG1</b><br>(ZB5 AVG1 + ZB5 AV013) | 0.038        |
|                                                                                                       |                           | Green  | <b>XB5 AVG3</b><br>(ZB5 AVG3 + ZB5 AV033) | 0.038        |
|                                                                                                       |                           | Red    | <b>XB5 AVG4</b><br>(ZB5 AVG4 + ZB5 AV043) | 0.038        |
|                                                                                                       |                           | Orange | <b>XB5 AVG5</b><br>(ZB5 AVG5 + ZB5 AV053) | 0.038        |
|                                                                                                       |                           | Blue   | <b>XB5 AVG6</b><br>(ZB5 AVG6 + ZB5 AV063) | 0.038        |
|                                                                                                       |                           |        |                                           |              |
|                                                                                                       | ~ 230...240<br>(50/60 Hz) | White  | <b>XB5 AVM1</b><br>(ZB5 AVM1 + ZB5 AV013) | 0.038        |
|                                                                                                       |                           | Green  | <b>XB5 AVM3</b><br>(ZB5 AVM3 + ZB5 AV033) | 0.038        |
|                                                                                                       |                           | Red    | <b>XB5 AVM4</b><br>(ZB5 AVM4 + ZB5 AV043) | 0.038        |
|                                                                                                       |                           | Orange | <b>XB5 AVM5</b><br>(ZB5 AVM5 + ZB5 AV053) | 0.038        |
|                                                                                                       |                           | Blue   | <b>XB5 AVM6</b><br>(ZB5 AVM6 + ZB5 AV063) | 0.038        |
|                                                                                                       |                           |        |                                           |              |

## Heads only, circular (1)

| Shape of head                                                                       | For use with body<br>comprising light source type                                                        | Colour of lens    | Reference  | Weight<br>kg |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------|------------|--------------|
| ■ With plain lens                                                                   |                                                                                                          |                   |            |              |
|  | Integral LED only<br> | White             | ZB5 AV013  | 0.017        |
|                                                                                     |                                                                                                          | Green             | ZB5 AV033  | 0.017        |
|                                                                                     |                                                                                                          | Red               | ZB5 AV043  | 0.017        |
|                                                                                     |                                                                                                          | Orange            | ZB5 AV053  | 0.017        |
|                                                                                     |                                                                                                          | Blue              | ZB5 AV063  | 0.017        |
|                                                                                     |                                                                                                          | 5 colours (2) (3) | ZB5 AV003  | 0.017        |
| ■ With plain lens, for insertion of legend (3)                                      |                                                                                                          |                   |            |              |
|  | Integral LED only<br> | White             | ZB5 AV013E | 0.017        |
|                                                                                     |                                                                                                          | Green             | ZB5 AV033E | 0.017        |
|                                                                                     |                                                                                                          | Red               | ZB5 AV043E | 0.017        |
|                                                                                     |                                                                                                          | Orange            | ZB5 AV053E | 0.017        |
|                                                                                     |                                                                                                          | Blue              | ZB5 AV063E | 0.017        |
| ■ With grooved lens (4)                                                             |                                                                                                          |                   |            |              |
|  | Integral LED only<br> | White             | ZB5 AV013S | 0.017        |
|                                                                                     |                                                                                                          | Green             | ZB5 AV033S | 0.017        |
|                                                                                     |                                                                                                          | Red               | ZB5 AV043S | 0.017        |
|                                                                                     |                                                                                                          | Orange            | ZB5 AV053S | 0.017        |
|                                                                                     |                                                                                                          | Blue              | ZB5 AV063S | 0.017        |

## Heads only, square (1)

|                                                                                                         |                   |               |                  |       |
|---------------------------------------------------------------------------------------------------------|-------------------|---------------|------------------|-------|
| ■ With plain lens                                                                                       |                   |               |                  |       |
| <br>Protected<br>LED | Integral LED only | White         | <b>ZB5 CV013</b> | 0.020 |
|                                                                                                         |                   | Green         | <b>ZB5 CV033</b> | 0.020 |
|                                                                                                         |                   | Red           | <b>ZB5 CV043</b> | 0.020 |
|                                                                                                         |                   | Orange        | <b>ZB5 CV053</b> | 0.020 |
|                                                                                                         |                   | Blue          | <b>ZB5 CV063</b> | 0.020 |
|                                                                                                         |                   | 5 colours (2) | <b>ZB5 CV003</b> | 0.028 |

(1) Only for use with bodies comprising a light source with integral LED.

(2) Head supplied with 5 different coloured lenses (white, green, red, orange, blue) not fitted, for insertion of legend.

(3) For legend ordering information: see page 136.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).

814529



ZB5 AV053

814530



ZB5 CV063

Assembly of other products using:  
light block sub-assemblies: see page 128  
accessories: see pages 132 and 136

# Control and signalling units Ø 22

## Harmony® XB5, plastic

### Pilot lights with integral LED and with BA 9s base fitting

#### Pilot lights with integral LED and transformer (1.2 VA, 24 V secondary)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head                                                                     | Supply voltage<br>V | Colour | Reference (1)                                                                                        | Weight<br>kg |
|-----------------------------------------------------------------------------------|---------------------|--------|------------------------------------------------------------------------------------------------------|--------------|
| Complete units - With plain lens                                                  |                     |        |                                                                                                      |              |
|  | ~ 400 - 50 Hz (1)   | White  | <b>XB5 AV5B1</b>  | 0.133        |
|                                                                                   |                     | Green  | <b>XB5 AV5B3</b>  | 0.133        |
|                                                                                   |                     | Red    | <b>XB5 AV5B4</b>  | 0.133        |
|                                                                                   |                     | Orange | <b>XB5 AV5B5</b>  | 0.133        |
|                                                                                   |                     | Blue   | <b>XB5 AV5B6</b>  | 0.133        |

080703



XB5 AV5B1

Protected  
LED

#### Pilot lights with BA 9s base fitting, with plain or grooved lens

Screw clamp terminal connections (Schneider Electric anti-retightening system)

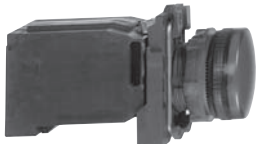
| Shape of head                                                                              | Supply voltage<br>V                  | Colour | Reference                               | Weight<br>kg |
|--------------------------------------------------------------------------------------------|--------------------------------------|--------|-----------------------------------------|--------------|
| Complete units - With plain lens                                                           |                                      |        |                                         |              |
| ■ Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W max (bulb not included)                  |                                      |        |                                         |              |
|           | ≤ 250                                | White  | <b>XB5 AV61</b><br>(ZB5 AV6 + ZB5 AV01) | 0.037        |
|                                                                                            |                                      | Green  | <b>XB5 AV63</b><br>(ZB5 AV6 + ZB5 AV03) | 0.037        |
|                                                                                            |                                      | Red    | <b>XB5 AV64</b><br>(ZB5 AV6 + ZB5 AV04) | 0.037        |
|                                                                                            |                                      | Orange | <b>XB5 AV65</b><br>(ZB5 AV6 + ZB5 AV05) | 0.037        |
| ■ Via integral transformer, 1.2 VA, 6 V secondary, with BA 9s incandescent bulb (included) |                                      |        |                                         |              |
|         | ~ 110...120 - 50/60 Hz               | White  | <b>XB5 AV31</b><br>(ZB5 AV3 + ZB5 AV01) | 0.109        |
|                                                                                            |                                      | Green  | <b>XB5 AV33</b><br>(ZB5 AV3 + ZB5 AV03) | 0.109        |
|                                                                                            |                                      | Red    | <b>XB5 AV34</b><br>(ZB5 AV3 + ZB5 AV04) | 0.109        |
|                                                                                            |                                      | Orange | <b>XB5 AV35</b><br>(ZB5 AV3 + ZB5 AV05) | 0.109        |
|                                                                                            | ~ 230 - 50 Hz<br>~ 220...240 - 60 Hz | White  | <b>XB5 AV41</b><br>(ZB5 AV4 + ZB5 AV01) | 0.110        |
|                                                                                            |                                      | Green  | <b>XB5 AV43</b><br>(ZB5 AV4 + ZB5 AV03) | 0.110        |
|                                                                                            |                                      | Red    | <b>XB5 AV44</b><br>(ZB5 AV4 + ZB5 AV04) | 0.110        |
|                                                                                            |                                      | Orange | <b>XB5 AV45</b><br>(ZB5 AV4 + ZB5 AV05) | 0.110        |

814392



XB5 AV63

814391



XB5 AV34

#### Heads only (1)

| Shape of head                                                                       | For use with body comprising light source type | Colour of lens          | Reference | Weight kg |
|-------------------------------------------------------------------------------------|------------------------------------------------|-------------------------|-----------|-----------|
| ■ With plain lens                                                                   |                                                |                         |           |           |
|  | With BA 9s base fitting                        | White                   | ZB5 AV01  | 0.018     |
|                                                                                     |                                                | Green                   | ZB5 AV03  | 0.018     |
|                                                                                     |                                                | Red                     | ZB5 AV04  | 0.018     |
|                                                                                     |                                                | Orange                  | ZB5 AV05  | 0.018     |
|                                                                                     |                                                | Blue                    | ZB5 AV06  | 0.018     |
|                                                                                     |                                                | Clear                   | ZB5 AV07  | 0.018     |
|                                                                                     |                                                | ■ With grooved lens (2) |           |           |
|  | With BA 9s base fitting                        | White                   | ZB5 AV01S | 0.017     |
|                                                                                     |                                                | Green                   | ZB5 AV03S | 0.017     |
|                                                                                     |                                                | Red                     | ZB5 AV04S | 0.017     |
|                                                                                     |                                                | Orange                  | ZB5 AV05S | 0.017     |
|                                                                                     |                                                | Blue                    | ZB5 AV06S | 0.017     |
|                                                                                     |                                                | Clear                   | ZB5 AV07S | 0.017     |

814528



ZB5 AV01

(1) For order ~ 440...460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8». Example: XB5 AV5B1 becomes XB5 AV8B1. To order ~ 550...600 V - 60 Hz blocks, please replace «5» by «9». Example: XB5 AV5B1 becomes XB5 AV9B1.

(2) Only for use with bodies comprising a light source with BA 9s base fitting (incandescent, neon or LED).

(3) For use in bright ambient light conditions (outdoors in sunlight, for example).

 New

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Specific functions

Pushbuttons for manual overload reset, hour counters, buzzers, fuse carrier



XB5 AA

| Manual overload reset buttons (travel 10 mm)                                        |                       |         |        |             |           |
|-------------------------------------------------------------------------------------|-----------------------|---------|--------|-------------|-----------|
| Shape of head                                                                       | Actuation distance mm | Marking | Colour | Reference   | Weight kg |
| Without cap <sup>(1)</sup>                                                          |                       |         |        |             |           |
|    | 17...120              | –       | –      | XB5 AA801   | 0.027     |
|                                                                                     | 120...257             | –       | –      | XB5 AA802   | 0.040     |
| With flush push                                                                     |                       |         |        |             |           |
|    | 17...120              | Without | Green  | XB5 AA831   | 0.027     |
|                                                                                     |                       |         | Red    | XB5 AA841   | 0.027     |
|                                                                                     |                       |         | Blue   | XB5 AA861   | 0.027     |
|                                                                                     |                       | O       | Red    | XB5 AA84101 | 0.027     |
|                                                                                     |                       | R       | Blue   | XB5 AA86102 | 0.027     |
|                                                                                     | 120...257             | Without | Green  | XB5 AA832   | 0.040     |
|                                                                                     |                       |         | Red    | XB5 AA842   | 0.040     |
|                                                                                     |                       |         | Blue   | XB5 AA862   | 0.040     |
|                                                                                     |                       | O       | Red    | XB5 AA84201 | 0.040     |
|                                                                                     |                       | R       | Blue   | XB5 AA86202 | 0.040     |
| With projecting push                                                                |                       |         |        |             |           |
|  | 17...120              | O       | Red    | XB5 AL84101 | 0.027     |
|                                                                                     | 120...257             | O       | Red    | XB5 AL84201 | 0.040     |



ZB5 AD

| Heads + mounting base for potentiometer (2) |                                                 |                 |           |           |
|---------------------------------------------|-------------------------------------------------|-----------------|-----------|-----------|
| Shape of head                               | Description                                     | For use with    | Reference | Weight kg |
|                                             | For potentiometer with shaft length 45 to 50 mm | Ø 6 mm shaft    | ZB5 AD912 | 0.032     |
|                                             |                                                 | Ø 6.35 mm shaft | ZB5 AD922 | 0.032     |

| Hour counters         |                      |           |           |
|-----------------------|----------------------|-----------|-----------|
| Characteristics       | Supply voltage V     | Reference | Weight kg |
| Indication 0...9999.9 | ~ 12...24 - 50/60 Hz | XB5 DSB   | 0.045     |
|                       | ~ 120 - 60 Hz        | XB5 DSG   | 0.045     |
|                       | ~ 230...240 - 50 Hz  | XB5 DSM   | 0.045     |



XB5 DS●

| Annunciators (IP 40 NEMA 1)                                                                       |                     |         |       |
|---------------------------------------------------------------------------------------------------|---------------------|---------|-------|
| 85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 146) | ~ 24 - 50/60 Hz     | XB5 KSB | 0.035 |
|                                                                                                   | ~ 120 - 50/60 Hz    | XB5 KSG | 0.035 |
|                                                                                                   | ~ 230...240 - 50 Hz | XB5 KSM | 0.035 |



XB5 KS●

| Fuse carrier |                              |           |           |
|--------------|------------------------------|-----------|-----------|
| Description  | For use with                 | Reference | Weight kg |
| Fuse carrier | 5 x 20 mm fuse 6.3 A - 250 V | XB5 DT1S  | 0.022     |



XB5 DT1S

(1) Coloured cap to be ordered separately: see page 132.  
(2) Potentiometer not included.



XD5 PA12



ZD5 PA103



ZD5 PA203



ZD5 PA12

**Joystick controllers** (with 54 mm long operating shaft) (1)  
**Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Description              | Operation                              | Spring return to zero position | Reference       | Weight kg |
|--------------------------|----------------------------------------|--------------------------------|-----------------|-----------|
| <b>Complete products</b> |                                        |                                |                 |           |
| 2-direction              | 1 notch<br>1 N/O contact per direction | Without                        | <b>XD5 PA12</b> | 0.060     |
|                          |                                        | With                           | <b>XD5 PA22</b> | 0.060     |
| 4-direction              | 1 notch<br>1 N/O contact per direction | Without                        | <b>XD5 PA14</b> | 0.077     |
|                          |                                        | With                           | <b>XD5 PA24</b> | 0.077     |

**Sub-assemblies for joystick controllers**

| Sub-assemblies for joystick controllers       |                                             |                                  |           |              |
|-----------------------------------------------|---------------------------------------------|----------------------------------|-----------|--------------|
| Description                                   | For use with                                |                                  | Reference | Weight<br>kg |
| Complete body/contact assemblies              | 2-direction                                 |                                  | ZD5 PA103 | 0.049        |
|                                               | 4-direction                                 |                                  | ZD5 PA203 | 0.058        |
| Complete head assemblies with operating shaft | 2-direction, stay put                       |                                  | ZD5 PA12  | 0.022        |
|                                               | 2-direction, spring return to zero position |                                  | ZD5 PA22  | 0.022        |
|                                               | 4-direction, stay put                       |                                  | ZD5 PA14  | 0.022        |
|                                               | 4-direction, spring return to zero position |                                  | ZD5 PA24  | 0.022        |
| Legends 30 x 48 mm for engraving              | 2-direction                                 | Black one side<br>Red reverse    | ZBG 2201  | 0.001        |
|                                               |                                             | White one side<br>Yellow reverse | ZBG 2401  | 0.001        |
| Legends 48 x 48 mm for engraving              | 4-direction                                 | Black one side<br>Red reverse    | ZBG 4201  | 0.002        |
|                                               |                                             | White one side<br>Yellow reverse | ZBG 4401  | 0.002        |

(1) Must not be used with standard contact blocks ZBE 10● (single) or ZBE 20● (double).

**Other versions** Joystick controllers and complete body/contact assemblies for joystick controllers with Faston connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.

To combine with heads, see pages 94 to 118



ZB5 AZ009



ZBE 101



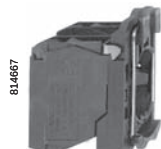
ZBE 203



ZB5 AZ101



ZBE 201



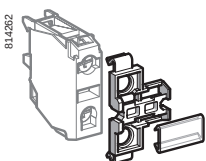
ZB5 AZ106



ZB5 AZ107



ZBE 505



ZBZ 001

New

General :  
page 80**Body/fixing collar**

| For use with                        | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 10              | ZB5 AZ009      | 0.006     |

**Contact functions (1)****Screw clamp terminal connections (Schneider Electric anti-retightening system)****Contacts for standard applications**

| Description    | Type of contact                |  |  | Sold in lots of | Unit reference | Weight kg |
|----------------|--------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Contact blocks | Single                         | 1                                                                                  | —                                                                                   | 5               | ZBE 101        | 0.011     |
|                |                                | —                                                                                  | 1                                                                                   | 5               | ZBE 102        | 0.011     |
|                | Double                         | 2                                                                                  | —                                                                                   | 5               | ZBE 203        | 0.020     |
|                |                                | —                                                                                  | 2                                                                                   | 5               | ZBE 204        | 0.020     |
|                | Single with body/fixing collar | 1                                                                                  | 1                                                                                   | 5               | ZBE 205        | 0.020     |
|                |                                | 1                                                                                  | —                                                                                   | 1               | ZB5 AZ101      | 0.021     |
|                |                                | —                                                                                  | 1                                                                                   | 1               | ZB5 AZ102      | 0.021     |
|                |                                | 2                                                                                  | —                                                                                   | 1               | ZB5 AZ103      | 0.030     |
|                |                                | —                                                                                  | 2                                                                                   | 1               | ZB5 AZ104      | 0.030     |
|                |                                | 1                                                                                  | 1                                                                                   | 1               | ZB5 AZ105      | 0.030     |
|                |                                | 1                                                                                  | 2                                                                                   | 1               | ZB5 AZ141      | 0.040     |

**Contacts for specific applications**

| Application          | Type of contact | Description                                              |  |  | Sold in lots of | Unit reference                                                                                | Weight kg |
|----------------------|-----------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------|-----------|
| Low power switching  | Single          | Standard                                                 | 1                                                                                   | —                                                                                    | 5               | ZBE 1016                                                                                      | 0.012     |
|                      |                 |                                                          | —                                                                                   | 1                                                                                    | 5               | ZBE 1026                                                                                      | 0.012     |
|                      |                 | Dusty environment (2)<br>(IP5X, 50 µm dust)              | 1                                                                                   | —                                                                                    | 5               | ZBE 1016P                                                                                     | 0.012     |
|                      |                 |                                                          | —                                                                                   | 1                                                                                    | 5               | ZBE 1026P                                                                                     | 0.012     |
| Staggered contacts   | Single          | Early make<br>N/O                                        | 1                                                                                   | —                                                                                    | 5               | ZBE 201                                                                                       | 0.011     |
|                      |                 | Late break<br>N/C                                        | —                                                                                   | 1                                                                                    | 5               | ZBE 202                                                                                       | 0.011     |
|                      |                 | Single with body/fixing collar<br>Overlapping<br>N/O+N/C | 1                                                                                   | 1                                                                                    | 5               | ZB5 AZ106                                                                                     | 0.030     |
|                      |                 | Staggered<br>N/O+N/C                                     | 2                                                                                   | —                                                                                    | 5               | ZB5 AZ107                                                                                     | 0.030     |
| High power switching | Single          | Standard (3)                                             | 1                                                                                   | —                                                                                    | 1               | ZBE 501  | 0,020     |
|                      |                 |                                                          | —                                                                                   | 1                                                                                    | 1               | ZBE 502  | 0,020     |
|                      |                 |                                                          | 2                                                                                   | —                                                                                    | 1               | ZBE 503  | 0,032     |
|                      |                 |                                                          | —                                                                                   | 2                                                                                    | 1               | ZBE 504  | 0,032     |
|                      |                 |                                                          | 1                                                                                   | 1                                                                                    | 1               | ZBE 505  | 0,032     |

**Clip-on legend holder, sheet of blank legends and labelling software (4)**

| Description                                                                                                                                      | Sold in lots of | Unit reference | Weight kg |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Clip-on legend-holder for electrical blocks with screw clamp terminal connections (4). For identification of an XB5 A control or signalling unit | 10              | ZBZ 001        | 0.001     |
| Sheet of 50 blank legends for legend holder ZBZ 001                                                                                              | 10              | ZBY 001        | 0.023     |
| «SIS Label» labelling software for legend design (ZBY 001 legends)<br>(for design of legends in English, French, German, Italian, Spanish)       | 1               | XBY 2U         | 0.100     |

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 92.

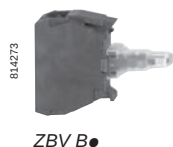
(2) It is not possible to fit an additional contact block on the back of these contact blocks.

(3) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.

(4) This legend holder is not compatible with high power switching contacts.

Characteristics :  
page 88Dimensions :  
page 146

To combine with:  
heads, see page 98



ZBV B•

| Light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system) |                           |                           |                    |                   |              |
|--------------------------------------------------------------------------------------------------|---------------------------|---------------------------|--------------------|-------------------|--------------|
| Description                                                                                      | Supply voltage<br>V       | Colour of<br>light source | Sold in<br>lots of | Unit<br>reference | Weight<br>kg |
| Integral LED<br>(to combine with<br>heads for integral LED)<br><b>Protected LED</b>              | ~ 12<br>(50/60 Hz)        | White                     | 5                  | ZBV J1            | 0.017        |
|                                                                                                  |                           | Green                     | 5                  | ZBV J3            | 0.017        |
|                                                                                                  |                           | Red                       | 5                  | ZBV J4            | 0.017        |
|                                                                                                  |                           | Orange                    | 5                  | ZBV J5            | 0.017        |
|                                                                                                  |                           | Blue                      | 5                  | ZBV J6            | 0.017        |
|                                                                                                  | ~ 24<br>(50/60 Hz)        | White                     | 5                  | ZBV B1            | 0.017        |
|                                                                                                  |                           | Green                     | 5                  | ZBV B3            | 0.017        |
|                                                                                                  |                           | Red                       | 5                  | ZBV B4            | 0.017        |
|                                                                                                  |                           | Orange                    | 5                  | ZBV B5            | 0.017        |
|                                                                                                  |                           | Blue                      | 5                  | ZBV B6            | 0.017        |
|                                                                                                  | ~ 24...120<br>(50/60 Hz)  | White                     | 5                  | ZBV BG1           | 0.017        |
|                                                                                                  |                           | Green                     | 5                  | ZBV BG3           | 0.017        |
|                                                                                                  |                           | Red                       | 5                  | ZBV BG4           | 0.017        |
|                                                                                                  |                           | Orange                    | 5                  | ZBV BG5           | 0.017        |
|                                                                                                  |                           | Blue                      | 5                  | ZBV BG6           | 0.017        |
|                                                                                                  | ~ 110...120<br>(50/60 Hz) | White                     | 5                  | ZBV G1            | 0.017        |
|                                                                                                  |                           | Green                     | 5                  | ZBV G3            | 0.017        |
|                                                                                                  |                           | Red                       | 5                  | ZBV G4            | 0.017        |
|                                                                                                  |                           | Orange                    | 5                  | ZBV G5            | 0.017        |
|                                                                                                  |                           | Blue                      | 5                  | ZBV G6            | 0.017        |
|                                                                                                  | ~ 230...240<br>(50/60 Hz) | White                     | 5                  | ZBV M1            | 0.017        |
|                                                                                                  |                           | Green                     | 5                  | ZBV M3            | 0.017        |
|                                                                                                  |                           | Red                       | 5                  | ZBV M4            | 0.017        |
|                                                                                                  |                           | Orange                    | 5                  | ZBV M5            | 0.017        |
|                                                                                                  |                           | Blue                      | 5                  | ZBV M6            | 0.017        |



ZBV 5B

| Flashing light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system) |                           |        |   |          |       |
|-----------------------------------------------------------------------------------------------------------|---------------------------|--------|---|----------|-------|
| Integral LED<br>(to combine with<br>heads for integral LED)<br><b>Protected LED</b>                       | ~ 24<br>(50/60 Hz)        | White  | 5 | ZBV 18B1 | 0.017 |
|                                                                                                           |                           | Green  | 5 | ZBV 18B3 | 0.017 |
|                                                                                                           |                           | Red    | 5 | ZBV 18B4 | 0.017 |
|                                                                                                           |                           | Orange | 5 | ZBV 18B5 | 0.017 |
|                                                                                                           |                           | Blue   | 5 | ZBV 18B6 | 0.017 |
|                                                                                                           | ~ 110...120<br>(50/60 Hz) | White  | 5 | ZBV 18G1 | 0.017 |
|                                                                                                           |                           | Green  | 5 | ZBV 18G3 | 0.017 |
|                                                                                                           |                           | Red    | 5 | ZBV 18G4 | 0.017 |
|                                                                                                           |                           | Orange | 5 | ZBV 18G5 | 0.017 |
|                                                                                                           |                           | Blue   | 5 | ZBV 18G6 | 0.017 |
|                                                                                                           | ~ 230...240<br>(50/60 Hz) | White  | 5 | ZBV 18M1 | 0.017 |
|                                                                                                           |                           | Green  | 5 | ZBV 18M3 | 0.017 |
|                                                                                                           |                           | Red    | 5 | ZBV 18M4 | 0.017 |
|                                                                                                           |                           | Orange | 5 | ZBV 18M5 | 0.017 |
|                                                                                                           |                           | Blue   | 5 | ZBV 18M6 | 0.017 |



ZBZ G156



ZBZ M156



ZBZ V•

| Transformer blocks for 24 V light blocks |                           |                                      |              |              |
|------------------------------------------|---------------------------|--------------------------------------|--------------|--------------|
| For use with                             | Supply voltage<br>V       | Description                          | Référence    | Weight<br>kg |
| Light blocks with integral LED           | ~ 400 V - 50 Hz           | Transformers 400 V - 24 V ~          | ZBV 5B (1)   | 0.090        |
| Blocks for "test light" function         |                           |                                      |              |              |
| Light blocks                             | ~ 12 and 24<br>~ 24...120 | Single module, 1 connecting wire     | ZBZ G156 (2) | 0.010        |
| Light blocks with integral LED           | ~ 48...230                | Double module, with connecting wires | ZBZ M156 (3) | 0.010        |

| LED suppressors                                                                   |                     |                        |           |              |
|-----------------------------------------------------------------------------------|---------------------|------------------------|-----------|--------------|
| For use with                                                                      | Supply voltage<br>V | Level of<br>protection | Reference | Weight<br>kg |
| Light blocks with integral LED<br>fitted with screw clamp<br>terminal connections | ~ 120               | 25...120 VA            | ZBV VG    | 0.010        |
|                                                                                   | ~ 230               | 30...230 VA            | ZBV VM    | 0.010        |

(1) To order ~ 440...460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8»: ZBV 5B becomes ZBV 8B.

To order ~ 550...600 V - 60 Hz transformer blocks, please replace «5» by «9»: ZBV 5B becomes ZBV 9B.

(2) Block for use with ~ light blocks with integral LED types ZBV J•, ZBV B•, ZBV BG• or with direct supply light block for BA 9s bulb, ZBV 6.

(3) Block for use ~ light blocks integral LED types ZBV G•, ZBV M•, see connection on page 154.

New

To combine with heads, see pages 94 to 118

814588



ZB5 AZ009

PF10777



ZBE 1015

PF107781



ZB5 AZ1015

**Body/fixing collar**

| For use with                        | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 10              | ZB5 AZ009      | 0.006     |

**Contact functions****Spring clamp terminal connections (1)****Contacts for standard applications**

| Description    | Type of contact                |  |  | Sold in lots of | Unit reference                                                                                 | Weight kg |
|----------------|--------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------|-----------|
| Contact blocks | Single                         | 1                                                                                 | —                                                                                  | 4               | ZBE 1015    | 0.011     |
|                |                                | —                                                                                 | 1                                                                                  | 4               | ZBE 1025    | 0.011     |
|                | Single with body/fixing collar | 1                                                                                 | —                                                                                  | 1               | ZB5 AZ1015  | 0.021     |
|                |                                | —                                                                                 | 1                                                                                  | 1               | ZB5 AZ1025  | 0.021     |
|                |                                | 2                                                                                 | —                                                                                  | 1               | ZB5 AZ1035  | 0.030     |
|                |                                | —                                                                                 | 2                                                                                  | 1               | ZB5 AZ1045  | 0.030     |
|                |                                | 1                                                                                 | 1                                                                                  | 1               | ZB5 AZ1055  | 0.030     |

**Light blocks****Spring clamp terminal connections (1)**

| Description                                              | Supply voltage V          | Colour of light source | Sold in lots of | Unit reference                                                                                | Weight kg |
|----------------------------------------------------------|---------------------------|------------------------|-----------------|-----------------------------------------------------------------------------------------------|-----------|
| Integral LED<br>(to combine with heads for integral LED) | ≈ 12<br>(50/60 Hz)        | White                  | 4               | ZBV J15  | 0.016     |
|                                                          |                           | Green                  | 4               | ZBV J35  | 0.016     |
|                                                          |                           | Red                    | 4               | ZBV J45  | 0.016     |
|                                                          |                           | Orange                 | 4               | ZBV J55  | 0.016     |
|                                                          |                           | Blue                   | 4               | ZBV J65  | 0.016     |
|                                                          | ≈ 24<br>(50/60 Hz)        | White                  | 4               | ZBV B15  | 0.016     |
|                                                          |                           | Green                  | 4               | ZBV B35  | 0.016     |
|                                                          |                           | Red                    | 4               | ZBV B45  | 0.016     |
|                                                          |                           | Orange                 | 4               | ZBV B55  | 0.016     |
|                                                          |                           | Blue                   | 4               | ZBV B65  | 0.016     |
|                                                          | ~ 110...120<br>(50/60 Hz) | White                  | 4               | ZBV G15  | 0.016     |
|                                                          |                           | Green                  | 4               | ZBV G35  | 0.016     |
|                                                          |                           | Red                    | 4               | ZBV G45  | 0.016     |
|                                                          |                           | Orange                 | 4               | ZBV G55  | 0.016     |
|                                                          |                           | Blue                   | 4               | ZBV G65  | 0.016     |
|                                                          | ~ 230...240<br>(50/60 Hz) | White                  | 4               | ZBV M15  | 0.016     |
|                                                          |                           | Green                  | 4               | ZBV M35  | 0.016     |
|                                                          |                           | Red                    | 4               | ZBV M45  | 0.016     |
|                                                          |                           | Orange                 | 4               | ZBV M55  | 0.016     |
|                                                          |                           | Blue                   | 4               | ZBV M65  | 0.016     |

**Sheet of 50 blank legends**

| For use with          | Sold in lots of | Unit reference | Weight kg |
|-----------------------|-----------------|----------------|-----------|
| Legend holder ZBZ 001 | 10              | ZBY 001        | 0.023     |

**"SIS Label" labelling software (for legends ZBY 001)**

| For legend design                             |   | Unit reference | Weight kg |
|-----------------------------------------------|---|----------------|-----------|
| for English, French, German, Italian, Spanish | 1 | XBY 2U         | 0.038     |

540548



XBY 2U

(1) It is not possible to fit an additional block on the back of these contact or light blocks.

 NewGeneral :  
page 80Characteristics :  
page 88Dimensions :  
page 146

To combine with heads, see pages 94 to 118



ZB5 AZ009



ZB5 AZ079 + ZB5 AZ009



ZBZ 01●



ZBE 701



ZBE 702



ZBV B●7

### Body/fixing collar and accessories specifically for printed circuit board mounting <sup>(1)</sup>

#### Accessories required when using adaptor (socket) ZBZ 010

| Description                            | For use with                                                                  | Sold in lots of | Unit reference | Weight kg |
|----------------------------------------|-------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Body/fixing collar                     | Electrical block (contact or light)                                           | 10              | ZB5 AZ009      | 0.006     |
| Fixing collar/pillar                   | Printed circuit board support (fixing screw ZBZ 006 to be ordered separately) | 10              | ZB5 AZ079      | 0.003     |
| Fixing screw for printed circuit board | Fixing collar/pillar ZB5 AZ079                                                | 10              | ZBZ 006        | 0.011     |

#### Adapter (socket) <sup>(1)</sup>

| For use with                        | Thickness of printed circuit board (mm) | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 1.6 ± 0.2                               | 10              | ZBZ 010        | 0.008     |
|                                     | 2.2 ± 0.2                               | 10              | ZBZ 011        | 0.008     |
|                                     | 3.2 ± 0.2                               | 10              | ZBZ 012        | 0.008     |

### Contact functions <sup>(1)</sup>

#### Contacts for standard applications

| Description    | Type of contact |  |  | Sold in lots of | Unit reference | Weight kg |
|----------------|-----------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Contact blocks | Single          | 1                                                                                  | –                                                                                    | 5               | ZBE 701        | 0.011     |
|                |                 | –                                                                                  | 1                                                                                    | 5               | ZBE 702        | 0.011     |

#### Contacts for specific applications

| Application         | Type of contact |  |  | Sold in lots of | Unit reference | Weight kg |
|---------------------|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|----------------|-----------|
| Low power switching | Single          | 1                                                                                   | –                                                                                     | 5               | ZBE 7016       | 0.012     |
|                     |                 | –                                                                                   | 1                                                                                     | 5               | ZBE 7026       | 0.012     |

### Light blocks <sup>(1)</sup>

| Description                                           | Supply voltage V | Colour of LED | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------------------------|------------------|---------------|-----------------|----------------|-----------|
| Integral LED (to combine with heads for integral LED) | ≈ 24 (50/60 Hz)  | White         | 5               | ZBV B17        | 0.004     |
|                                                       |                  | Green         | 5               | ZBV B37        | 0.004     |
|                                                       |                  | Red           | 5               | ZBV B47        | 0.004     |
|                                                       |                  | Orange        | 5               | ZBV B57        | 0.004     |
|                                                       |                  | Blue          | 5               | ZBV B67        | 0.004     |

Protected  
LED

<sup>(1)</sup> For details of support drilling and of printed circuit board: see page 157

To combine with heads, see pages 94 to 118



ZBE 1023



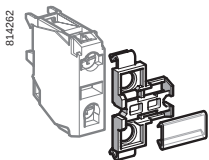
ZBE 2043



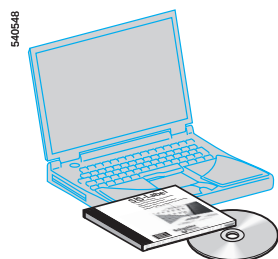
ZB5 AZ1013



ZB5 AZ1023



ZBZ 001



XBY 2U

**Contact functions <sup>(1)</sup>****Faston connectors (6.35 or 2 x 2.8 mm)****Contacts for standard applications**

| Description                    | Type of contact |   |   | Sold in lots of | Unit reference            | Weight<br>kg |
|--------------------------------|-----------------|---|---|-----------------|---------------------------|--------------|
| Contact blocks                 | Single          | 1 | – | 5               | ZBE 1013                  | 0.011        |
|                                |                 | – | 1 | 5               | ZBE 1023                  | 0.011        |
|                                | Double          | 2 | – | 5               | ZBE 2033                  | 0.020        |
|                                |                 | – | 2 | 5               | ZBE 2043                  | 0.020        |
|                                |                 | 1 | 1 | 5               | ZBE 2053                  | 0.020        |
| Single with body/fixing collar |                 | 1 | – | 1               | ZB5 AZ1013 <sup>(2)</sup> | 0.021        |
|                                |                 | – | 1 | 1               | ZB5 AZ1023 <sup>(2)</sup> | 0.021        |
|                                |                 | 2 | – | 1               | ZB5 AZ1033                | 0.030        |
|                                |                 | – | 2 | 1               | ZB5 AZ1043                | 0.030        |
|                                |                 | 1 | 1 | 1               | ZB5 AZ1053                | 0.030        |
|                                |                 |   |   |                 |                           |              |

**Contacts for specific applications**

| Application          | Type of contact | Description                                             |   |   | Sold in lots of | Unit reference            | Weight<br>kg |
|----------------------|-----------------|---------------------------------------------------------|---|---|-----------------|---------------------------|--------------|
| Low power switching  | Single          | Standard                                                | 1 | – | 5               | ZBE 10163 <sup>(2)</sup>  | 0.012        |
|                      |                 |                                                         | – | 1 | 5               | ZBE 10263 <sup>(2)</sup>  | 0.012        |
|                      |                 | Dusty environments <sup>(3)</sup><br>(IP5X, 50 µm dust) | 1 | – | 5               | ZBE 1016P3 <sup>(2)</sup> | 0.012        |
|                      |                 |                                                         | – | 1 | 5               | ZBE 1026P3 <sup>(2)</sup> | 0.012        |
| Staggered contacts   | Single          | Early make                                              | 1 | – | 5               | ZBE 2013 <sup>(2)</sup>   | 0.011        |
|                      |                 | N/O                                                     |   |   |                 |                           |              |
|                      |                 | Late break                                              | – | 1 | 5               | ZBE 2023 <sup>(2)</sup>   | 0.011        |
| High power switching | Single          | Standard <sup>(4)</sup>                                 |   |   |                 |                           |              |
|                      |                 |                                                         | 1 | – | 1               | ZBE 5013 <sup>(5)</sup>   | 0,021        |
|                      |                 |                                                         | – | 1 | 1               | ZBE 5023 <sup>(5)</sup>   | 0,021        |
|                      |                 |                                                         | 2 | – | 1               | ZBE 5033 <sup>(5)</sup>   | 0,033        |
|                      |                 |                                                         | – | 2 | 1               | ZBE 5043 <sup>(5)</sup>   | 0,033        |
|                      |                 |                                                         | 1 | 1 | 1               | ZBE 5053 <sup>(5)</sup>   | 0,033        |

**Clip-on legend holder for electrical blocks with screw clamp terminal connections <sup>(5)</sup>**

| For use with                                          | Sold in lots of | Unit reference | Weight<br>kg |
|-------------------------------------------------------|-----------------|----------------|--------------|
| Identification of an XB5 A control or signalling unit | 10              | ZBZ 001        | 0.001        |

**Sheet of 50 blank legends**

|                       |    |         |       |
|-----------------------|----|---------|-------|
| Legend holder ZBZ 001 | 10 | ZBY 001 | 0.023 |
|-----------------------|----|---------|-------|

**“SIS Label” labelling software (for legends ZBY 001)**

|                                                                    |   |        |       |
|--------------------------------------------------------------------|---|--------|-------|
| For legend design<br>for English, French, German, Italian, Spanish | 1 | XBY 2U | 0.100 |
|--------------------------------------------------------------------|---|--------|-------|

<sup>(1)</sup> The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3.

Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).

<sup>(2)</sup> To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9.  
Example: ZBE 1013 becomes ZBE 1019.<sup>(3)</sup> It is not possible to fit an additional contact block on the back of these contact blocks.<sup>(4)</sup> It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.<sup>(5)</sup> This legend holder is not compatible with high power switching contacts.

n New

General :  
page 80Characteristics :  
page 88Dimensions :  
page 146

To combine with heads, see pages 94 to 118



ZB5 AZ009



ZBE 1014



ZBE 1024



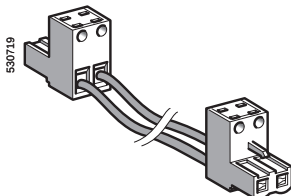
ZB5 AZ1014



ZB5 AZ1024



ZBV B•4



APE 1C2250

**Body/fixing collar**

| For use with                        | Sold in lots of | Unit reference | Weight<br>kg |
|-------------------------------------|-----------------|----------------|--------------|
| Electrical block (contact or light) | 10              | ZB5 AZ009      | 0.006        |

**Contact functions****Plug-in connector (1)****Contacts for standard applications**

| Description    | Type of contact                   |  |  | Sold in lots of | Unit reference | Weight<br>kg |
|----------------|-----------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------|----------------|--------------|
| Contact blocks | Single                            | 1                                                                                 | –                                                                                  | 5               | ZBE 1014       | 0.011        |
|                |                                   | –                                                                                 | 1                                                                                  | 5               | ZBE 1024       | 0.011        |
|                | Single with<br>body/fixing collar | 1                                                                                 | –                                                                                  | 1               | ZB5 AZ1014     | 0.018        |
|                |                                   | –                                                                                 | 1                                                                                  | 1               | ZB5 AZ1024     | 0.018        |
|                |                                   | 2                                                                                 | –                                                                                  | 1               | ZB5 AZ1034     | 0.026        |
|                |                                   | –                                                                                 | 2                                                                                  | 1               | ZB5 AZ1044     | 0.026        |
|                |                                   | 1                                                                                 | 1                                                                                  | 1               | ZB5 AZ1054     | 0.026        |
|                |                                   | 1                                                                                 | 2                                                                                  | 1               | ZB5 AZ1414     | 0.036        |

**Light blocks****Plug-in connector**

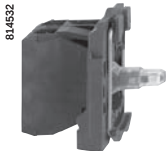
| Description                                                 | Supply voltage (V)        | Colour of light source | Sold in lots of | Unit reference | Weight<br>kg |
|-------------------------------------------------------------|---------------------------|------------------------|-----------------|----------------|--------------|
| Integral LED<br>(to combine with<br>heads for integral LED) | ~ 24<br>(50/60 Hz)        | White                  | 5               | ZBV B14        | 0.016        |
|                                                             |                           | Green                  | 5               | ZBV B34        | 0.016        |
|                                                             |                           | Red                    | 5               | ZBV B44        | 0.016        |
|                                                             |                           | Orange                 | 5               | ZBV B54        | 0.016        |
|                                                             |                           | Blue                   | 5               | ZBV B64        | 0.016        |
|                                                             | ~ 110...120<br>(50/60 Hz) | White                  | 5               | ZBV G14        | 0.016        |
|                                                             |                           | Green                  | 5               | ZBV G34        | 0.016        |
|                                                             |                           | Red                    | 5               | ZBV G44        | 0.016        |
|                                                             |                           | Orange                 | 5               | ZBV G54        | 0.016        |
|                                                             |                           | Blue                   | 5               | ZBV G64        | 0.016        |
|                                                             | ~ 230...240<br>(50/60 Hz) | White                  | 5               | ZBV M14        | 0.016        |
|                                                             |                           | Green                  | 5               | ZBV M34        | 0.016        |
|                                                             |                           | Red                    | 5               | ZBV M44        | 0.016        |
|                                                             |                           | Orange                 | 5               | ZBV M54        | 0.016        |
|                                                             |                           | Blue                   | 5               | ZBV M64        | 0.016        |

Protected  
LED**Connecting cables and connector**

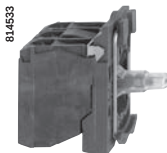
| Description                                       | Number of connectors | Wire c.s.a. mm <sup>2</sup> | Length mm | Sold in lots of | Unit reference | Weight<br>kg |
|---------------------------------------------------|----------------------|-----------------------------|-----------|-----------------|----------------|--------------|
| Cables with connectors<br>2-pin, 5.08 mm pitch    | 1                    | 0.75                        | 500       | 8               | APE 1C2150     | 0.120        |
|                                                   | 2                    | 0.75                        | 500       | 8               | APE 1C2250     | 0.180        |
| Spring terminal connector<br>2-pin, 5.08 mm pitch | –                    | 0.2 to 2.5                  | –         | 10              | APE 1PRE21     | 0.003        |

(1) It is not possible to fit an additional contact block on the back of these contact blocks.

To combine with:  
heads, see pages 99 to 115  
contacts, see page 120



ZB5 AW0●●1



ZB5 AW0●●3

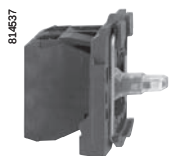
| Complete body/contact assemblies and light blocks <sup>(1)</sup>               |                           |                 |     |                        |            |        |
|--------------------------------------------------------------------------------|---------------------------|-----------------|-----|------------------------|------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) |                           |                 |     |                        |            |        |
| Light source                                                                   | Supply voltage            | Type of contact |     | Colour of light source | Reference  | Weight |
|                                                                                | V                         |                 |     |                        |            | kg     |
|                                                                                |                           | N/O             | N/C |                        |            |        |
| Direct supply                                                                  |                           |                 |     |                        |            |        |
| Integral LED<br>                                                               | ~ 24<br>(50/60 Hz)        | 1               | —   | White                  | ZB5 AW0B11 | 0.032  |
|                                                                                |                           |                 |     | Green                  | ZB5 AW0B31 | 0.032  |
|                                                                                |                           |                 |     | Red                    | ZB5 AW0B41 | 0.032  |
|                                                                                |                           |                 |     | Orange                 | ZB5 AW0B51 | 0.032  |
|                                                                                |                           |                 |     | Blue                   | ZB5 AW0B61 | 0.032  |
|                                                                                |                           | —               | 1   | White                  | ZB5 AW0B12 | 0.032  |
|                                                                                |                           |                 |     | Green                  | ZB5 AW0B32 | 0.032  |
|                                                                                |                           |                 |     | Red                    | ZB5 AW0B42 | 0.032  |
|                                                                                |                           |                 |     | Orange                 | ZB5 AW0B52 | 0.032  |
|                                                                                |                           |                 |     | Blue                   | ZB5 AW0B62 | 0.032  |
|                                                                                |                           | 2               | —   | White                  | ZB5 AW0B13 | 0.042  |
|                                                                                |                           |                 |     | Green                  | ZB5 AW0B33 | 0.042  |
|                                                                                |                           |                 |     | Red                    | ZB5 AW0B43 | 0.042  |
|                                                                                |                           |                 |     | Orange                 | ZB5 AW0B53 | 0.042  |
|                                                                                |                           |                 |     | Blue                   | ZB5 AW0B63 | 0.042  |
|                                                                                |                           | 1               | 1   | White                  | ZB5 AW0B15 | 0.042  |
|                                                                                |                           |                 |     | Green                  | ZB5 AW0B35 | 0.042  |
|                                                                                |                           |                 |     | Red                    | ZB5 AW0B45 | 0.042  |
|                                                                                |                           |                 |     | Orange                 | ZB5 AW0B55 | 0.042  |
|                                                                                |                           |                 |     | Blue                   | ZB5 AW0B65 | 0.042  |
|                                                                                | ~ 110...120<br>(50/60 Hz) | 1               | —   | White                  | ZB5 AW0G11 | 0.032  |
|                                                                                |                           |                 |     | Green                  | ZB5 AW0G31 | 0.032  |
|                                                                                |                           |                 |     | Red                    | ZB5 AW0G41 | 0.032  |
|                                                                                |                           |                 |     | Orange                 | ZB5 AW0G51 | 0.032  |
|                                                                                |                           |                 |     | Blue                   | ZB5 AW0G61 | 0.032  |
|                                                                                |                           | —               | 1   | White                  | ZB5 AW0G12 | 0.032  |
|                                                                                |                           |                 |     | Green                  | ZB5 AW0G32 | 0.032  |
|                                                                                |                           |                 |     | Red                    | ZB5 AW0G42 | 0.032  |
|                                                                                |                           |                 |     | Orange                 | ZB5 AW0G52 | 0.032  |
|                                                                                |                           |                 |     | Blue                   | ZB5 AW0G62 | 0.032  |
|                                                                                |                           | 2               | —   | White                  | ZB5 AW0G13 | 0.042  |
|                                                                                |                           |                 |     | Green                  | ZB5 AW0G33 | 0.042  |
|                                                                                |                           |                 |     | Red                    | ZB5 AW0G43 | 0.042  |
|                                                                                |                           |                 |     | Orange                 | ZB5 AW0G53 | 0.042  |
|                                                                                |                           |                 |     | Blue                   | ZB5 AW0G63 | 0.042  |
|                                                                                |                           | 1               | 1   | White                  | ZB5 AW0G15 | 0.042  |
|                                                                                |                           |                 |     | Green                  | ZB5 AW0G35 | 0.042  |
|                                                                                |                           |                 |     | Red                    | ZB5 AW0G45 | 0.042  |
|                                                                                |                           |                 |     | Orange                 | ZB5 AW0G55 | 0.042  |
|                                                                                |                           |                 |     | Blue                   | ZB5 AW0G65 | 0.042  |

(1) Can be fitted with additional contact blocks: see page 120.

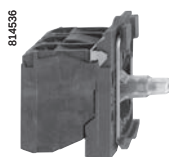
#### Other versions

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

To combine with:  
heads, see pages 99 to 115  
contacts, see page 120



ZB5 AW0...1



ZB5 AW0...3

| Complete body/contact assemblies and light blocks (1) (continued)                  |                |                                                                                   |                                                                                   |                        |            |            |       |
|------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|------------|------------|-------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system)     |                |                                                                                   |                                                                                   |                        |            |            |       |
| Light source                                                                       | Supply voltage | Type of contact                                                                   |                                                                                   | Colour of light source | Reference  | Weight     |       |
|                                                                                    | V              |  |  |                        |            | kg         |       |
| Direct supply (continued)                                                          |                |                                                                                   |                                                                                   |                        |            |            |       |
| <div>Integral LED</div> <div>Protected LED</div> <div>~ 230...240 (50/60 Hz)</div> | 1              | 1                                                                                 | –                                                                                 | White                  | ZB5 AW0M11 | 0.032      |       |
|                                                                                    |                |                                                                                   |                                                                                   | Green                  | ZB5 AW0M31 | 0.032      |       |
|                                                                                    |                |                                                                                   |                                                                                   | Red                    | ZB5 AW0M41 | 0.032      |       |
|                                                                                    |                |                                                                                   |                                                                                   | Orange                 | ZB5 AW0M51 | 0.032      |       |
|                                                                                    |                |                                                                                   |                                                                                   | Blue                   | ZB5 AW0M61 | 0.032      |       |
|                                                                                    | –              | 1                                                                                 | 1                                                                                 | –                      | White      | ZB5 AW0M12 | 0.032 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Green      | ZB5 AW0M32 | 0.032 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Red        | ZB5 AW0M42 | 0.032 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Orange     | ZB5 AW0M52 | 0.032 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Blue       | ZB5 AW0M62 | 0.032 |
|                                                                                    | 2              | –                                                                                 | 1                                                                                 | –                      | White      | ZB5 AW0M13 | 0.042 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Green      | ZB5 AW0M33 | 0.042 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Red        | ZB5 AW0M43 | 0.042 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Orange     | ZB5 AW0M53 | 0.042 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Blue       | ZB5 AW0M63 | 0.042 |
|                                                                                    | 1              | 1                                                                                 | 1                                                                                 | –                      | White      | ZB5 AW0M15 | 0.042 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Green      | ZB5 AW0M35 | 0.042 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Red        | ZB5 AW0M45 | 0.042 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Orange     | ZB5 AW0M55 | 0.042 |
|                                                                                    |                |                                                                                   |                                                                                   |                        | Blue       | ZB5 AW0M65 | 0.042 |

(1) Can be fitted with additional contact blocks: see page 120.

## Other versions

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

To combine with:  
heads, see page 116  
contacts, see page 120

563090



ZB5 AV●●

**Complete light bodies** (fixing collar + light block with integral LED)**Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Light source                             | Supply voltage<br>V           | Colour of<br>light source | Reference | Weight<br>kg |
|------------------------------------------|-------------------------------|---------------------------|-----------|--------------|
| Integral LED<br><b>protected<br/>LED</b> | ~ 12<br>(50/60 Hz)            | White                     | ZB5 AVJ1  | 0.022        |
|                                          |                               | Green                     | ZB5 AVJ3  | 0.022        |
|                                          |                               | Red                       | ZB5 AVJ4  | 0.022        |
|                                          |                               | Orange                    | ZB5 AVJ5  | 0.022        |
|                                          |                               | Blue                      | ZB5 AVJ6  | 0.022        |
|                                          | ~ 24 (1)<br>(50/60 Hz)        | White                     | ZB5 AVB1  | 0.022        |
|                                          |                               | Green                     | ZB5 AVB3  | 0.022        |
|                                          |                               | Red                       | ZB5 AVB4  | 0.022        |
|                                          |                               | Orange                    | ZB5 AVB5  | 0.022        |
|                                          |                               | Blue                      | ZB5 AVB6  | 0.022        |
|                                          | ~ 24...120<br>(50/60 Hz)      | White                     | ZB5 AVBG1 | 0.022        |
|                                          |                               | Green                     | ZB5 AVBG3 | 0.022        |
|                                          |                               | Red                       | ZB5 AVBG4 | 0.022        |
|                                          |                               | Orange                    | ZB5 AVBG5 | 0.022        |
|                                          |                               | Blue                      | ZB5 AVBG6 | 0.022        |
|                                          | ~ 110...120 (1)<br>(50/60 Hz) | White                     | ZB5 AVG1  | 0.022        |
|                                          |                               | Green                     | ZB5 AVG3  | 0.022        |
|                                          |                               | Red                       | ZB5 AVG4  | 0.022        |
|                                          |                               | Orange                    | ZB5 AVG5  | 0.022        |
|                                          |                               | Blue                      | ZB5 AVG6  | 0.022        |
|                                          | ~ 230...240 (1)<br>(50/60 Hz) | White                     | ZB5 AVM1  | 0.022        |
|                                          |                               | Green                     | ZB5 AVM3  | 0.022        |
|                                          |                               | Red                       | ZB5 AVM4  | 0.022        |
|                                          |                               | Orange                    | ZB5 AVM5  | 0.022        |
|                                          |                               | Blue                      | ZB5 AVM6  | 0.022        |

(1) Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 121.

To combine with:  
heads, see page 116  
contacts, see page 120



ZB5 AVB156

### Complete light bodies with 3-terminal "test" function

(fixing collar + light block with integral LED + pre-wired block for "test light" function)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Light source                                               | Supply voltage<br>V         | Colour of<br>light source | Reference   | Weight<br>kg |
|------------------------------------------------------------|-----------------------------|---------------------------|-------------|--------------|
| Integral LED<br><b>Protected<sup>®</sup></b><br><b>LED</b> | $\sim$ 24 (1)<br>(50/60 Hz) | White                     | ZB5 AVB1156 | 0.022        |
|                                                            |                             | Green                     | ZB5 AVB3156 | 0.022        |
|                                                            |                             | Red                       | ZB5 AVB4156 | 0.022        |
|                                                            |                             | Orange                    | ZB5 AVB5156 | 0.022        |
|                                                            |                             | Blue                      | ZB5 AVB6156 | 0.022        |

### Complete bodies with flashing pilot light (fixing collar + light block with integral LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Light source                                               | Supply voltage<br>V            | Colour of<br>light source | Reference  | Weight<br>kg |
|------------------------------------------------------------|--------------------------------|---------------------------|------------|--------------|
| Integral LED<br><b>Protected<sup>®</sup></b><br><b>LED</b> | $\sim$ 24<br>(50/60 Hz)        | White                     | ZB5 AV18B1 | 0.022        |
|                                                            |                                | Green                     | ZB5 AV18B3 | 0.022        |
|                                                            |                                | Red                       | ZB5 AV18B4 | 0.022        |
|                                                            |                                | Orange                    | ZB5 AV18B5 | 0.022        |
|                                                            |                                | Blue                      | ZB5 AV18B6 | 0.022        |
|                                                            | $\sim$ 110...120<br>(50/60 Hz) | White                     | ZB5 AV18G1 | 0.022        |
|                                                            |                                | Green                     | ZB5 AV18G3 | 0.022        |
|                                                            |                                | Red                       | ZB5 AV18G4 | 0.022        |
|                                                            |                                | Orange                    | ZB5 AV18G5 | 0.022        |
|                                                            |                                | Blue                      | ZB5 AV18G6 | 0.022        |
|                                                            | $\sim$ 230...240<br>(50/60 Hz) | White                     | ZB5 AV18M1 | 0.022        |
|                                                            |                                | Green                     | ZB5 AV18M3 | 0.022        |
|                                                            |                                | Red                       | ZB5 AV18M4 | 0.022        |
|                                                            |                                | Orange                    | ZB5 AV18M5 | 0.022        |
|                                                            |                                | Blue                      | ZB5 AV18M6 | 0.022        |

(1) For a  $\sim$  120 or 230 V supply, use complete body ZB5 AVG● or ZB5 AVM● with block for "test light" function type ZBZ M156, see page 121.

To combine with heads, see page 98 to 113  
contacts, see page 120

814549



ZB5 AW065

**Complete body/contact assemblies and light blocks (1)****For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections (Schneider Electric anti-retightening system)**

| Light source                                            | Supply voltage                  | Type of contact                                                                          |                                                                                          | Colour of light source | Reference   | Weight      |       |
|---------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------|-------------|-------------|-------|
|                                                         |                                 | <br>N/O | <br>N/C |                        |             |             |       |
|                                                         | V                               |                                                                                          |                                                                                          |                        |             | kg          |       |
| Direct supply                                           |                                 |                                                                                          |                                                                                          |                        |             |             |       |
| BA 9s base fitting bulb, 2.4 W max., not included (2)   | ≤ 250                           | 1                                                                                        | –                                                                                        | –                      | ZB5 AW061   | 0.031       |       |
|                                                         |                                 | –                                                                                        | 1                                                                                        | –                      | ZB5 AW062   | 0.031       |       |
|                                                         |                                 | 2                                                                                        | –                                                                                        | –                      | ZB5 AW063   | 0.041       |       |
|                                                         |                                 | 1                                                                                        | 1                                                                                        | –                      | ZB5 AW065   | 0.041       |       |
| Supply via integral transformer (1.2 VA, 6 V secondary) |                                 |                                                                                          |                                                                                          |                        |             |             |       |
| Incandescent BA 9s base fitting bulb, included          | ~ 110...120<br>50/60 Hz         | 1                                                                                        | –                                                                                        | –                      | ZB5 AW031   | 0.110       |       |
|                                                         |                                 | 1                                                                                        | 1                                                                                        | –                      | ZB5 AW035   | 0.119       |       |
|                                                         | ~ 230<br>50 Hz                  | 1                                                                                        | –                                                                                        | –                      | ZB5 AW041   | 0.110       |       |
|                                                         |                                 | 1                                                                                        | 1                                                                                        | –                      | ZB5 AW045   | 0.119       |       |
|                                                         | ~ 220...240<br>60 Hz            | 1                                                                                        | –                                                                                        | –                      | ZB5 AW051   | 0.110       |       |
|                                                         |                                 | 1                                                                                        | 1                                                                                        | –                      | ZB5 AW055   | 0.119       |       |
|                                                         | BA9s base fitting LED, included | ~ 110...120<br>50/60 Hz                                                                  | 1                                                                                        | 1                      | White       | ZB5 AW03D15 | 0.119 |
|                                                         |                                 |                                                                                          |                                                                                          |                        | Green       | ZB5 AW03D35 | 0.119 |
|                                                         |                                 |                                                                                          |                                                                                          |                        | Red         | ZB5 AW03D45 | 0.119 |
|                                                         |                                 |                                                                                          |                                                                                          |                        | Orange      | ZB5 AW03D55 | 0.119 |
| Blue                                                    |                                 |                                                                                          |                                                                                          |                        | ZB5 AW03D65 | 0.119       |       |
| ~ 230<br>50 Hz                                          |                                 | 1                                                                                        | 1                                                                                        | White                  | ZB5 AW04D15 | 0.119       |       |
|                                                         |                                 |                                                                                          |                                                                                          | Green                  | ZB5 AW04D35 | 0.119       |       |
|                                                         |                                 |                                                                                          |                                                                                          | Red                    | ZB5 AW04D45 | 0.119       |       |
|                                                         |                                 |                                                                                          |                                                                                          | Orange                 | ZB5 AW04D55 | 0.119       |       |
|                                                         |                                 |                                                                                          |                                                                                          | Blue                   | ZB5 AW04D65 | 0.119       |       |
| ~ 220...240<br>60 Hz                                    | 1                               | 1                                                                                        | White                                                                                    | ZB5 AW05D15            | 0.120       |             |       |
|                                                         |                                 |                                                                                          | Green                                                                                    | ZB5 AW05D35            | 0.120       |             |       |
|                                                         |                                 |                                                                                          | Red                                                                                      | ZB5 AW05D45            | 0.120       |             |       |
|                                                         |                                 |                                                                                          | Orange                                                                                   | ZB5 AW05D55            | 0.120       |             |       |
|                                                         |                                 |                                                                                          | Blue                                                                                     | ZB5 AW05D65            | 0.120       |             |       |

(1) Can be fitted with additional contact blocks: see page 120.

(2) Bulb to be ordered separately: see page 144.

**Other versions**

Complete bodies with integral transformer incorporating Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

To combine with:  
heads, see page 121  
contacts, see page 120

**Light blocks****Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Description                                                                   | Supply voltage<br>V | Sold in<br>lots of | Unit<br>reference | Weight<br>kg |
|-------------------------------------------------------------------------------|---------------------|--------------------|-------------------|--------------|
| Direct supply for BA 9s<br>base fitting bulb, 2.4 W max.,<br>not included (1) | ≤ 250               | 5                  | ZBV 6             | 0.016        |

**Complete light bodies** (fixing collar + light block)**For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Light source                                                   | Supply voltage<br>V    | Colour of<br>light source | Reference | Weight<br>kg |
|----------------------------------------------------------------|------------------------|---------------------------|-----------|--------------|
| <b>Direct supply</b>                                           |                        |                           |           |              |
| BA 9s base fitting bulb,<br>2.4 W max,<br>not included (1)     | ≤ 250                  | –                         | ZB5 AV6   | 0.022        |
| <b>Supply via integral transformer (1.2 VA, 6 V secondary)</b> |                        |                           |           |              |
| BA 9s base fitting<br>incandescent bulb,<br>included           | ~ 110...120 - 50/60 Hz | –                         | ZB5 AV3   | 0.099        |
|                                                                | ~ 230 - 50 Hz          | –                         | ZB5 AV4   | 0.099        |
|                                                                | ~ 220...240 - 60 Hz    | –                         | ZB5 AV5   | 0.099        |
|                                                                | ~ 400 - 50 Hz          | –                         | ZB5 AV8   | 0.099        |
|                                                                | ~ 440...480 - 60 Hz    | –                         | ZB5 AV9   | 0.099        |
|                                                                | ~ 550...600 - 60 Hz    | –                         | ZB5 AV9   | 0.099        |

|                                     |                                      |        |           |       |
|-------------------------------------|--------------------------------------|--------|-----------|-------|
| BA 9s base fitting LED,<br>included | ~ 110...120 - 50/60 Hz               | White  | ZB5 AV3D1 | 0.102 |
|                                     |                                      | Green  | ZB5 AV3D3 | 0.102 |
|                                     |                                      | Red    | ZB5 AV3D4 | 0.102 |
|                                     |                                      | Orange | ZB5 AV3D5 | 0.102 |
|                                     |                                      | Blue   | ZB5 AV3D6 | 0.102 |
|                                     |                                      |        |           |       |
|                                     | ~ 230 - 50 Hz<br>~ 220...240 - 60 Hz | White  | ZB5 AV4D1 | 0.102 |
|                                     |                                      | Green  | ZB5 AV4D3 | 0.102 |
|                                     |                                      | Red    | ZB5 AV4D4 | 0.102 |
|                                     |                                      | Orange | ZB5 AV4D5 | 0.102 |
|                                     |                                      | Blue   | ZB5 AV4D6 | 0.102 |
|                                     |                                      |        |           |       |
|                                     | ~ 400 - 50/60 Hz                     | White  | ZB5 AV5D1 | 0.102 |
|                                     |                                      | Green  | ZB5 AV5D3 | 0.102 |
|                                     |                                      | Red    | ZB5 AV5D4 | 0.102 |
|                                     |                                      | Orange | ZB5 AV5D5 | 0.102 |
|                                     |                                      | Blue   | ZB5 AV5D6 | 0.102 |
|                                     |                                      |        |           |       |

**Complete light bodies with 3-terminal “test” function** (fixing collar + light block)**For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)

| Light source                                               | Supply voltage<br>V | Reference | Weight<br>kg |
|------------------------------------------------------------|---------------------|-----------|--------------|
| <b>Direct supply</b>                                       |                     |           |              |
| BA 9s base fitting bulb,<br>2.4 W max,<br>not included (1) | ≤ 250               | ZB5 AV156 | 0.021        |

(1) Bulb to be ordered separately, see page 144.

**Other versions** Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 121.



ZB5 AV6



ZB5 AV3



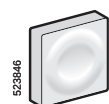
ZB5 AV156



ZBA ●



ZBL ●



ZBC 1

## Pushbutton caps - unmarked

| For use with                                           | Type of push | Colour        | Sold in lots of | Unit reference | Weight kg |
|--------------------------------------------------------|--------------|---------------|-----------------|----------------|-----------|
| ZB5 AA0 circular pushbutton heads supplied without cap | Flush        | White         | 10              | ZBA 1          | 0.001     |
|                                                        |              | Black         | 10              | ZBA 2          | 0.001     |
|                                                        |              | Green         | 10              | ZBA 3          | 0.001     |
|                                                        |              | Red           | 10              | ZBA 4          | 0.001     |
|                                                        |              | Yellow        | 10              | ZBA 5          | 0.001     |
|                                                        |              | Blue          | 10              | ZBA 6          | 0.001     |
|                                                        |              | 6 colours (1) | 1               | ZBA 9          | 0.006     |
|                                                        | Projecting   | White         | 10              | ZBL 1          | 0.001     |
|                                                        |              | Black         | 10              | ZBL 2          | 0.001     |
|                                                        |              | Green         | 10              | ZBL 3          | 0.001     |
|                                                        |              | Red           | 10              | ZBL 4          | 0.001     |
|                                                        |              | Yellow        | 10              | ZBL 5          | 0.001     |
|                                                        |              | Blue          | 10              | ZBL 6          | 0.001     |
|                                                        |              | 6 colours (1) | 1               | ZBL 9          | 0.006     |
| ZB5 CA0 square pushbutton heads supplied without cap   | Flush        | White         | 10              | ZBC 1          | 0.001     |
|                                                        |              | Black         | 10              | ZBC 2          | 0.001     |
|                                                        |              | Green         | 10              | ZBC 3          | 0.001     |
|                                                        |              | Red           | 10              | ZBC 4          | 0.001     |
|                                                        |              | Yellow        | 10              | ZBC 5          | 0.001     |
|                                                        |              | Blue          | 10              | ZBC 6          | 0.001     |

(1) Set of 6 different coloured caps: white, black, green, red, yellow, blue.



## Pushbutton caps - marked

| For use with                                                                | Type of push | Marking<br>Text | Colour | Colour of cap | Unit reference | Weight<br>kg |
|-----------------------------------------------------------------------------|--------------|-----------------|--------|---------------|----------------|--------------|
| ZB5 AA0 circular pushbutton heads supplied without cap (sold in lots of 10) | Flush        | I (1)           | White  | Green         | ZBA 331        | 0.001        |
|                                                                             |              |                 | Black  | White         | ZBA 131        | 0.001        |
|                                                                             |              | II              | White  | Green         | ZBA 336        | 0.001        |
|                                                                             |              |                 | Black  | White         | ZBA 136        | 0.001        |
|                                                                             |              | III             | White  | Green         | ZBA 337        | 0.001        |
|                                                                             |              |                 | Black  | White         | ZBA 137        | 0.001        |
|                                                                             |              | IV              | White  | Green         | ZBA 338        | 0.001        |
|                                                                             |              |                 | Black  | White         | ZBL 138        | 0.001        |
|                                                                             |              | START (1)       | White  | Green         | ZBA 333        | 0.001        |
|                                                                             |              |                 | Black  | White         | ZBA 133        | 0.001        |
|                                                                             |              | ON              | White  | Green         | ZBA 341        | 0.001        |
|                                                                             |              |                 | Black  | White         | ZBA 141        | 0.001        |
|                                                                             |              | MARCHE          | White  | Green         | ZBA 342        | 0.001        |
|                                                                             |              |                 | Black  | White         | ZBA 142        | 0.001        |
|                                                                             |              | UP (1)          | Black  | White         | ZBA 343        | 0.001        |
|                                                                             |              | DOWN (1)        | White  | Black         | ZBA 344        | 0.001        |
|                                                                             |              | ⏏ (1)           | White  | Black         | ZBA 245        | 0.001        |
|                                                                             |              |                 | Black  | White         | ZBA 145        | 0.001        |
|                                                                             |              | ↑ (2)           | White  | Black         | ZBA 335        | 0.001        |
|                                                                             |              |                 | Black  | White         | ZBA 334        | 0.001        |
|                                                                             |              | O (1)           | White  | Red           | ZBA 432        | 0.001        |
|                                                                             |              |                 |        | Black         | ZBA 232        | 0.001        |
|                                                                             |              | ARRET           | White  | Red           | ZBA 433        | 0.001        |
|                                                                             |              |                 |        | Black         | ZBA 233        | 0.001        |
|                                                                             |              | STOP (1)        | White  | Red           | ZBA 434        | 0.001        |
|                                                                             |              |                 |        | Black         | ZBA 234        | 0.001        |
|                                                                             |              | OFF             | White  | Red           | ZBA 435        | 0.001        |
|                                                                             |              |                 |        | Black         | ZBA 235        | 0.001        |
|                                                                             |              | ⚠               | White  | Green         | ZBA 346        | 0.001        |
|                                                                             |              | R (1)           | White  | Blue          | ZBA 639        | 0.001        |
|                                                                             |              | +               | White  | Black         | ZBA 2934       | 0.001        |
|                                                                             |              | –               | White  | Black         | ZBA 2935       | 0.001        |

(1) Double injection moulded marking.

(2) Can be clipped-in at 90° steps, through 360°

814334



ZBP 0

**Transparent boots for pushbuttons (1)**

| Description  | For use with pushbutton types                                         | Sold in lots of | Unit reference | Weight kg |
|--------------|-----------------------------------------------------------------------|-----------------|----------------|-----------|
| Single boots | Flush with circular head                                              | 10              | ZBP A          | 0.002     |
|              | Projecting with circular head                                         | 10              | ZBP 0          | 0.002     |
|              | Flush or projecting with circular head for food industry applications | 10              | ZBP 0A         | 0.002     |

**Coloured boots**

| Description                                                      | Colour | Sold in lots of | Unit reference | Weight kg |
|------------------------------------------------------------------|--------|-----------------|----------------|-----------|
| Coloured boots<br>(can be replaced without dismantling the head) | Black  | 10              | ZB2 BP012      | 0.003     |
|                                                                  | Green  | 10              | ZB2 BP013      | 0.003     |
|                                                                  | Red    | 10              | ZB2 BP014      | 0.003     |
|                                                                  | Orange | 10              | ZB2 BP015      | 0.003     |
|                                                                  | Blue   | 10              | ZB2 BP016      | 0.003     |

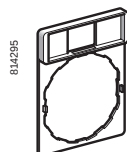
(1) Boots for multiple-headed pushbuttons: see page 103.



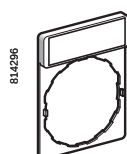
ZBV 01●3

| Lens caps                                                           |                                         |                 |                |           |
|---------------------------------------------------------------------|-----------------------------------------|-----------------|----------------|-----------|
| For use with                                                        | Colour                                  | Sold in lots of | Unit reference | Weight kg |
| <b>Circular lens caps for light sources with integral LED</b>       |                                         |                 |                |           |
| Pilot lights                                                        | White                                   | 10              | ZBV 0113       | 0.002     |
|                                                                     | Green                                   | 10              | ZBV 0133       | 0.002     |
|                                                                     | Red                                     | 10              | ZBV 0143       | 0.002     |
|                                                                     | Orange                                  | 10              | ZBV 0153       | 0.002     |
|                                                                     | Blue                                    | 10              | ZBV 0163       | 0.002     |
|                                                                     | 5 different coloured grooved lenses (1) | 1               | ZBV 0103S      | 0.010     |
| Illuminated pushbuttons, with flush push                            | White                                   | 10              | ZBW 9113       | 0.002     |
|                                                                     | Green                                   | 10              | ZBW 9133       | 0.002     |
|                                                                     | Red                                     | 10              | ZBW 9143       | 0.002     |
|                                                                     | Orange                                  | 10              | ZBW 9153       | 0.002     |
|                                                                     | Blue                                    | 10              | ZBW 9163       | 0.002     |
| Illuminated pushbuttons, with projecting push                       | White                                   | 10              | ZBW 9313       | 0.002     |
|                                                                     | Green                                   | 10              | ZBW 9333       | 0.002     |
|                                                                     | Red                                     | 10              | ZBW 9343       | 0.002     |
|                                                                     | Orange                                  | 10              | ZBW 9353       | 0.002     |
|                                                                     | Blue                                    | 10              | ZBW 9363       | 0.002     |
| <b>Square lens caps for light sources with integral LED</b>         |                                         |                 |                |           |
| Pilot lights                                                        | White                                   | 10              | ZBC V0113      | 0.002     |
|                                                                     | Green                                   | 10              | ZBC V0133      | 0.002     |
|                                                                     | Red                                     | 10              | ZBC V0143      | 0.002     |
|                                                                     | Orange                                  | 10              | ZBC V0153      | 0.002     |
|                                                                     | Blue                                    | 10              | ZBC V0163      | 0.002     |
| Illuminated pushbuttons, with flush push                            | White                                   | 10              | ZBC W9113      | 0.002     |
|                                                                     | Green                                   | 10              | ZBC W9133      | 0.002     |
|                                                                     | Red                                     | 10              | ZBC W9143      | 0.002     |
|                                                                     | Orange                                  | 10              | ZBC W9153      | 0.002     |
|                                                                     | Blue                                    | 10              | ZBC W9163      | 0.002     |
| Illuminated pushbuttons, with projecting push                       | White                                   | 10              | ZBC W9313      | 0.002     |
|                                                                     | Green                                   | 10              | ZBC W9333      | 0.002     |
|                                                                     | Red                                     | 10              | ZBC W9343      | 0.002     |
|                                                                     | Orange                                  | 10              | ZBC W9353      | 0.002     |
|                                                                     | Blue                                    | 10              | ZBC W9363      | 0.002     |
| <b>Circular lens caps for light sources with BA 9s base fitting</b> |                                         |                 |                |           |
| Pilot lights                                                        | White                                   | 10              | ZBV 011        | 0.002     |
|                                                                     | Green                                   | 10              | ZBV 013        | 0.002     |
|                                                                     | Red                                     | 10              | ZBV 014        | 0.002     |
|                                                                     | Orange                                  | 10              | ZBV 015        | 0.002     |
|                                                                     | Blue                                    | 10              | ZBV 016        | 0.002     |
|                                                                     | Clear                                   | 10              | ZBV 017        | 0.002     |
| Illuminated pushbuttons, with flush push                            | White                                   | 10              | ZBW 911        | 0.002     |
|                                                                     | Green                                   | 10              | ZBW 913        | 0.002     |
|                                                                     | Red                                     | 10              | ZBW 914        | 0.002     |
|                                                                     | Orange                                  | 10              | ZBW 915        | 0.002     |
|                                                                     | Blue                                    | 10              | ZBW 916        | 0.002     |
|                                                                     | Clear                                   | 10              | ZBW 917        | 0.002     |
| Illuminated pushbuttons, with projecting push                       | White                                   | 10              | ZBW 931        | 0.002     |
|                                                                     | Green                                   | 10              | ZBW 933        | 0.002     |
|                                                                     | Red                                     | 10              | ZBW 934        | 0.002     |
|                                                                     | Orange                                  | 10              | ZBW 935        | 0.002     |
|                                                                     | Blue                                    | 10              | ZBW 936        | 0.002     |
|                                                                     | Clear                                   | 10              | ZBW 937        | 0.002     |

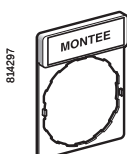
(1) Clear, green, red, orange, blue.



ZBZ 32



ZBY 101



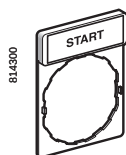
ZBY 2107

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends <sup>(1)</sup>

| Description                                             | Legend                      |                               | Sold in lots of | Unit reference | Weight kg |
|---------------------------------------------------------|-----------------------------|-------------------------------|-----------------|----------------|-----------|
|                                                         | Colour                      | Marking                       |                 |                |           |
| Without legend                                          | –                           | –                             | 10              | ZBZ 32         | 0.001     |
| With blank legend<br>(for engraving)                    | Black or red background     | –                             | 10              | ZBY 2101       | 0.002     |
|                                                         | White or yellow background  | –                             | 10              | ZBY 4101       | 0.002     |
| With 8 x 27 mm legend<br>(with International marking)   | Black or red background     | O (black background)          | 1               | ZBY 2146       | 0.002     |
|                                                         |                             | O (red background)            | 1               | ZBY 2931       | 0.002     |
|                                                         |                             | I                             | 1               | ZBY 2147       | 0.002     |
|                                                         |                             | II                            | 1               | ZBY 2148       | 0.002     |
|                                                         |                             | O-I                           | 1               | ZBY 2178       | 0.002     |
|                                                         |                             | I-II                          | 1               | ZBY 2179       | 0.002     |
|                                                         |                             | I-O-II                        | 1               | ZBY 2186       | 0.002     |
|                                                         |                             | AUTO                          | 1               | ZBY 2115       | 0.002     |
|                                                         |                             | STOP                          | 1               | ZBY 2304       | 0.002     |
|                                                         |                             | ARRET (red background)        | 1               | ZBY 2104       | 0.002     |
|                                                         |                             | ARRET (black background)      | 1               | ZBY 0104       | 0.002     |
|                                                         |                             | ARRET GENERAL                 | 1               | ZBY 2129       | 0.002     |
|                                                         |                             | ARRET REARMEMENT              | 1               | ZBY 2133       | 0.002     |
|                                                         |                             | ARRET-MARCHE                  | 1               | ZBY 2166       | 0.002     |
|                                                         |                             | ARRIERE                       | 1               | ZBY 2106       | 0.002     |
| With 8 x 27 mm legend<br>(with French language marking) | Black or red background (2) | AUTO CYCLE-CYCLE              | 1               | ZBY 2198       | 0.002     |
|                                                         |                             | AUTO CYCLE-MAIN               | 1               | ZBY 2199       | 0.002     |
|                                                         |                             | AUTO-MAIN                     | 1               | ZBY 2164       | 0.002     |
|                                                         |                             | AUTO-O-MAIN                   | 1               | ZBY 2185       | 0.002     |
|                                                         |                             | AVANT                         | 1               | ZBY 2105       | 0.002     |
|                                                         |                             | AVANT-O-ARRIERE               | 1               | ZBY 2184       | 0.002     |
|                                                         |                             | C-P-C-NORMAL                  | 1               | ZBY 2165       | 0.002     |
|                                                         |                             | CYCLE-MAIN                    | 1               | ZBY 2197       | 0.002     |
|                                                         |                             | DECLenchement                 | 1               | ZBY 2132       | 0.002     |
|                                                         |                             | DEFAULT (black background)    | 1               | ZBY 2134       | 0.002     |
|                                                         |                             | DEFAULT (red background)      | 1               | ZBY 2135       | 0.002     |
|                                                         |                             | DEPART CYCLE                  | 1               | ZBY 2195       | 0.002     |
|                                                         |                             | DESCENTE                      | 1               | ZBY 2108       | 0.002     |
|                                                         |                             | DROITE                        | 1               | ZBY 2109       | 0.002     |
|                                                         |                             | ENCLenchement                 | 1               | ZBY 2131       | 0.002     |
|                                                         |                             | EN SERVICE                    | 1               | ZBY 2111       | 0.002     |
|                                                         |                             | FERMETURE                     | 1               | ZBY 2114       | 0.002     |
|                                                         |                             | GAUCHE                        | 1               | ZBY 2110       | 0.002     |
|                                                         |                             | HORS SERVICE                  | 1               | ZBY 2112       | 0.002     |
|                                                         |                             | HORS-EN                       | 1               | ZBY 2167       | 0.002     |
|                                                         |                             | LENT                          | 1               | ZBY 2127       | 0.002     |
|                                                         |                             | MAIN                          | 1               | ZBY 2116       | 0.002     |
|                                                         |                             | MARCHE                        | 1               | ZBY 2103       | 0.002     |
|                                                         |                             | MONTEE                        | 1               | ZBY 2107       | 0.002     |
|                                                         |                             | OUVERTURE                     | 1               | ZBY 2113       | 0.002     |
|                                                         |                             | PHASE / PHASE                 | 1               | ZBY 2196       | 0.002     |
|                                                         |                             | REARMEMENT (red background)   | 1               | ZBY 2123       | 0.002     |
|                                                         |                             | REARMEMENT (black background) | 1               | ZBY 0123       | 0.002     |
|                                                         |                             | SOUS TENSION                  | 1               | ZBY 2126       | 0.002     |
|                                                         |                             | VITE                          | 1               | ZBY 2128       | 0.002     |
|                                                         | Yellow background           | ARRET D'URGENCE               | 1               | ZBY 2130       | 0.002     |

(1) For legends, see pages 138 to 140.

(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

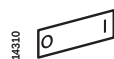


ZBY 2303

## Standard (30 x 40 mm) legend holders with 8 x 27 mm legends (continued)

| Description                                       | Legend                         | Marking                    | Reference    | Weight<br>kg |
|---------------------------------------------------|--------------------------------|----------------------------|--------------|--------------|
| With legend<br>(with English<br>language marking) | Black or red<br>background (1) | AUTO-HAND                  | ZBY 2364     | 0.002        |
|                                                   |                                | AUTO-O-HAND                | ZBY 2385     | 0.002        |
|                                                   |                                | CLOSE                      | ZBY 2314     | 0.002        |
|                                                   |                                | DOWN                       | ZBY 2308     | 0.002        |
|                                                   |                                | FAST                       | ZBY 2328     | 0.002        |
|                                                   |                                | FORWARD                    | ZBY 2305     | 0.002        |
|                                                   |                                | HAND                       | ZBY 2316     | 0.002        |
|                                                   |                                | HAND-OFF-AUTO              | ZBY 2387     | 0.002        |
|                                                   |                                | INCH                       | ZBY 2321     | 0.002        |
|                                                   |                                | LEFT                       | ZBY 2310     | 0.002        |
|                                                   |                                | OFF                        | ZBY 2312     | 0.002        |
|                                                   |                                | OFF-ON                     | ZBY 2367     | 0.002        |
|                                                   |                                | ON                         | ZBY 2311     | 0.002        |
|                                                   |                                | OPEN                       | ZBY 2313     | 0.002        |
|                                                   |                                | POWER ON                   | ZBY 2326     | 0.002        |
|                                                   |                                | RESET (red background)     | ZBY 2323     | 0.002        |
|                                                   |                                | RESET (black background)   | ZBY 2322     | 0.002        |
|                                                   |                                | REVERSE                    | ZBY 2306     | 0.002        |
|                                                   |                                | RIGHT                      | ZBY 2309     | 0.002        |
|                                                   |                                | RUN                        | ZBY 2334     | 0.002        |
|                                                   |                                | SLOW                       | ZBY 2327     | 0.002        |
|                                                   |                                | START                      | ZBY 2303     | 0.002        |
|                                                   |                                | STOP-START                 | ZBY 2366     | 0.002        |
|                                                   |                                | UP                         | ZBY 2307     | 0.002        |
|                                                   | Yellow background              | EMERGENCY STOP             | ZBY 2330     | 0.002        |
| With legend<br>(with German<br>language marking)  | Black or red<br>background (1) | AB                         | ZBY 2208     | 0.002        |
|                                                   |                                | AUF                        | ZBY 2207     | 0.002        |
|                                                   |                                | AUS                        | ZBY 2204     | 0.002        |
|                                                   |                                | AUS-EIN                    | ZBY 2266     | 0.002        |
|                                                   |                                | AUS-IN BETRIEB             | ZBY 2267     | 0.002        |
|                                                   |                                | AUS-RÜCKSTELLUNG           | ZBY 2233     | 0.002        |
|                                                   |                                | AUSSCHALTEN                | ZBY 2232     | 0.002        |
|                                                   |                                | AUTO-HAND                  | ZBY 2364     | 0.002        |
|                                                   |                                | AUTO-O-HAND                | ZBY 2385     | 0.002        |
|                                                   |                                | AUTOZYKL-HAND              | ZBY 2299     | 0.002        |
|                                                   |                                | AUTOZYKL- 1 ZYKL           | ZBY 2298     | 0.002        |
|                                                   |                                | C-P-C-NORMAL               | ZBY 2265     | 0.002        |
|                                                   |                                | EIN                        | ZBY 2203     | 0.002        |
|                                                   |                                | EINSCHALTEN                | ZBY 2231     | 0.002        |
|                                                   |                                | HAND                       | ZBY 2316     | 0.002        |
|                                                   |                                | LANGSAM                    | ZBY 2227     | 0.002        |
|                                                   |                                | LINKS                      | ZBY 2210     | 0.002        |
|                                                   |                                | NOT-AUS (red background)   | ZBY 2230     | 0.002        |
|                                                   |                                | NOT-HALT                   | ZBY 2229     | 0.002        |
|                                                   |                                | ÖFFNEN                     | ZBY 2213     | 0.002        |
|                                                   |                                | RECHTS                     | ZBY 2209     | 0.002        |
|                                                   |                                | RÜCKSTELLUNG               | ZBY 2223     | 0.002        |
|                                                   |                                | SCHLIESSEN                 | ZBY 2214     | 0.002        |
|                                                   |                                | SCHNELL                    | ZBY 2228     | 0.002        |
|                                                   |                                | SPANNUNG EIN               | ZBY 2226     | 0.002        |
|                                                   |                                | STEUERUNG AUS              | ZBY 2212     | 0.002        |
|                                                   |                                | STEUERUNG EIN              | ZBY 2211     | 0.002        |
|                                                   |                                | STÖRUNG (black background) | ZBY 2234     | 0.002        |
|                                                   |                                | STÖRUNG (red background)   | ZBY 2235     | 0.002        |
|                                                   |                                | VOR                        | ZBY 2205     | 0.002        |
|                                                   |                                | VOR-O-ZURÜCK               | ZBY 2284     | 0.002        |
|                                                   |                                | ZURÜCK                     | ZBY 2206     | 0.002        |
|                                                   |                                | ZYKLUS-HAND                | ZBY 2297     | 0.002        |
|                                                   |                                | ZYKLUSSTART                | ZBY 2295     | 0.002        |
|                                                   | Yellow background              | NOT-AUS                    | ZBY 22420001 | 0.002        |

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).



ZBY 02178



ZBY 00104

**8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34)**

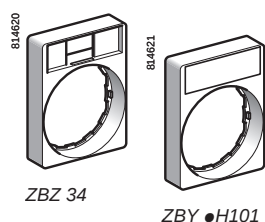
| Colour                      | Marking       | Reference                     | Weight<br>kg    |
|-----------------------------|---------------|-------------------------------|-----------------|
| Black or red background (1) | International | O (black background)          | ZBY 02146 0.001 |
|                             |               | O (red background)            | ZBY 02931 0.001 |
|                             |               | I                             | ZBY 02147 0.001 |
|                             |               | II                            | ZBY 02148 0.001 |
|                             |               | O-I                           | ZBY 02178 0.001 |
|                             |               | I-II                          | ZBY 02179 0.001 |
|                             |               | I-O-II                        | ZBY 02186 0.001 |
|                             |               | AUTO                          | ZBY 02115 0.001 |
|                             |               | STOP                          | ZBY 02304 0.001 |
|                             | French        | ARRET (red background)        | ZBY 02104 0.001 |
|                             |               | ARRET (black background)      | ZBY 00104 0.001 |
|                             |               | ARRET GENERAL                 | ZBY 02129 0.001 |
|                             |               | ARRET REARMEMENT              | ZBY 02133 0.001 |
|                             |               | ARRET-MARCHE                  | ZBY 02166 0.001 |
|                             |               | ARRIERE                       | ZBY 02106 0.001 |
|                             |               | AUTO CYCLE-CYCLE              | ZBY 02198 0.001 |
|                             |               | AUTO CYCLE-MAIN               | ZBY 02199 0.001 |
|                             |               | AUTO-MAIN                     | ZBY 02164 0.001 |
|                             |               | AUTO-O-MAIN                   | ZBY 02185 0.001 |
|                             |               | AVANT                         | ZBY 02105 0.001 |
|                             |               | AVANT-O-ARRIERE               | ZBY 02184 0.001 |
|                             |               | C-P-C-NORMAL                  | ZBY 02165 0.001 |
|                             |               | CYCLE-MAIN                    | ZBY 02197 0.001 |
|                             |               | DECLenchement                 | ZBY 02132 0.001 |
|                             |               | DEFAUT (black background)     | ZBY 02134 0.001 |
|                             |               | DEFAUT (red background)       | ZBY 02135 0.001 |
|                             |               | DEPART CYCLE                  | ZBY 02195 0.001 |
|                             |               | DESCENTE                      | ZBY 02108 0.001 |
|                             |               | DROITE                        | ZBY 02109 0.001 |
|                             |               | ENCLenchement                 | ZBY 02131 0.001 |
|                             |               | EN SERVICE                    | ZBY 02111 0.001 |
|                             |               | FERMETURE                     | ZBY 02114 0.001 |
|                             |               | GAUCHE                        | ZBY 02110 0.001 |
|                             |               | HORS SERVICE                  | ZBY 02112 0.001 |
|                             |               | HORS-EN                       | ZBY 02167 0.001 |
|                             |               | LENT                          | ZBY 02127 0.001 |
|                             |               | MAIN                          | ZBY 02116 0.001 |
|                             |               | MARCHE                        | ZBY 02103 0.001 |
|                             |               | MONTEE                        | ZBY 02107 0.001 |
|                             |               | OUVERTURE                     | ZBY 02113 0.001 |
|                             |               | PHASE / PHASE                 | ZBY 02196 0.001 |
|                             |               | REARMEMENT (red background)   | ZBY 02123 0.001 |
|                             |               | REARMEMENT (black background) | ZBY 00123 0.001 |
|                             |               | SOUS TENSION                  | ZBY 02126 0.001 |
|                             |               | VITE                          | ZBY 02128 0.001 |
| Yellow background           | French        | ARRET D'URGENCE               | ZBY 02130 0.001 |

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

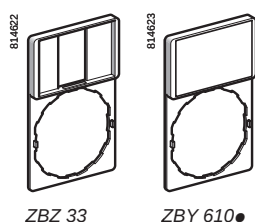
## 8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34) (continued)

| Colour                      | Marking | Reference                  | Weight<br>kg        |
|-----------------------------|---------|----------------------------|---------------------|
| Black or red background (1) | English | AUTO-HAND                  | ZBY 02364 0.001     |
|                             |         | AUTO-O-HAND                | ZBY 02385 0.001     |
|                             |         | CLOSE                      | ZBY 02314 0.001     |
|                             |         | DOWN                       | ZBY 02308 0.001     |
|                             |         | EMERGENCY STOP             | ZBY 02330 0.001     |
|                             |         | FAST                       | ZBY 02328 0.001     |
|                             |         | FORWARD                    | ZBY 02305 0.001     |
|                             |         | HAND                       | ZBY 02316 0.001     |
|                             |         | HAND-OFF-AUTO              | ZBY 02387 0.001     |
|                             |         | INCH                       | ZBY 02321 0.001     |
|                             |         | LEFT                       | ZBY 02310 0.001     |
|                             |         | OFF                        | ZBY 02312 0.001     |
|                             |         | OFF-ON                     | ZBY 02367 0.001     |
|                             |         | ON                         | ZBY 02311 0.001     |
|                             |         | OPEN                       | ZBY 02313 0.001     |
|                             |         | POWER ON                   | ZBY 02326 0.001     |
|                             |         | RESET (red background)     | ZBY 02323 0.001     |
|                             |         | RESET (black background)   | ZBY 02322 0.001     |
|                             |         | REVERSE                    | ZBY 02306 0.001     |
|                             |         | RIGHT                      | ZBY 02309 0.001     |
|                             |         | RUN                        | ZBY 02334 0.001     |
|                             |         | SLOW                       | ZBY 02327 0.001     |
|                             |         | START                      | ZBY 02303 0.001     |
|                             |         | STOP-START                 | ZBY 02366 0.001     |
|                             |         | UP                         | ZBY 02307 0.001     |
|                             | German  | AB                         | ZBY 02208 0.001     |
|                             |         | AUF                        | ZBY 02207 0.001     |
|                             |         | AUS                        | ZBY 02204 0.001     |
|                             |         | AUS-EIN                    | ZBY 02266 0.001     |
|                             |         | AUS-IN BETRIEB             | ZBY 02267 0.001     |
|                             |         | AUS-RÜCKSTELLUNG           | ZBY 02233 0.001     |
|                             |         | AUSSCHALTEN                | ZBY 02232 0.001     |
|                             |         | AUTO-HAND                  | ZBY 02364 0.001     |
|                             |         | AUTO-O-HAND                | ZBY 02385 0.001     |
|                             |         | AUTOZYKL-HAND              | ZBY 02299 0.001     |
|                             |         | AUTOZYKL- 1 ZYKL           | ZBY 02298 0.001     |
|                             |         | C-P-C-NORMAL               | ZBY 02265 0.001     |
|                             |         | EIN                        | ZBY 02203 0.001     |
|                             |         | EINSCHALTEN                | ZBY 02231 0.001     |
|                             |         | HAND                       | ZBY 02316 0.001     |
|                             |         | LANGSAM                    | ZBY 02227 0.001     |
|                             |         | LINKS                      | ZBY 02210 0.001     |
|                             |         | NOT-AUS (red background)   | ZBY 02230 0.001     |
|                             |         | NOT-HALT                   | ZBY 02229 0.001     |
|                             |         | ÖFFNEN                     | ZBY 02213 0.001     |
|                             |         | RECHTS                     | ZBY 02209 0.001     |
|                             |         | RÜCKSTELLUNG               | ZBY 02223 0.001     |
|                             |         | SCHLIESSEN                 | ZBY 02214 0.001     |
|                             |         | SCHNELL                    | ZBY 02228 0.001     |
|                             |         | SPANNUNG EIN               | ZBY 02226 0.001     |
|                             |         | STEUERUNG AUS              | ZBY 02212 0.001     |
|                             |         | STEUERUNG EIN              | ZBY 02211 0.001     |
|                             |         | STÖRUNG (black background) | ZBY 02234 0.001     |
|                             |         | STÖRUNG (red background)   | ZBY 02235 0.001     |
|                             |         | VOR                        | ZBY 02205 0.001     |
|                             |         | VOR-O-ZURÜCK               | ZBY 02284 0.001     |
|                             |         | ZURÜCK                     | ZBY 02206 0.001     |
|                             |         | ZYKLUS-HAND                | ZBY 02297 0.001     |
|                             |         | ZYKLUSSTART                | ZBY 02295 0.001     |
| Yellow background           | English | EMERGENCY STOP             | ZBY 02330 0.001     |
|                             | German  | NOT-AUS                    | ZBY 022420001 0.001 |

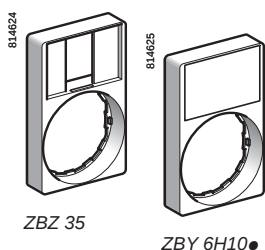
(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

**30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends**

| Description       | For use with   | Colour                     | Sold in lots of | Unit reference | Weight kg |
|-------------------|----------------|----------------------------|-----------------|----------------|-----------|
| Without legend    | Circular heads | —                          | 10              | ZBZ 34         | 0.003     |
|                   | Square heads   | —                          | 10              | ZBC Z34        | 0.002     |
| With blank legend | Circular heads | Black or red background    | 10              | ZBY 2H101      | 0.004     |
|                   |                | White or yellow background | 10              | ZBY 4H101      | 0.004     |
|                   | Square heads   | Black or red background    | 10              | ZBC Y2H101     | 0.002     |
|                   |                | White or yellow background | 10              | ZBC Y4H101     | 0.002     |

**Standard (30 x 50 mm) legend holders for 18 x 27 mm legends**

| Description       | For use with              | Colour                     | Sold in lots of | Unit reference | Weight kg |
|-------------------|---------------------------|----------------------------|-----------------|----------------|-----------|
| Without legend    | Circular and square heads | —                          | 10              | ZBZ 33         | 0.001     |
| With blank legend | Circular and square heads | Black or red background    | 10              | ZBY 6101       | 0.002     |
|                   |                           | White or yellow background | 10              | ZBY 6102       | 0.002     |

**30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends**

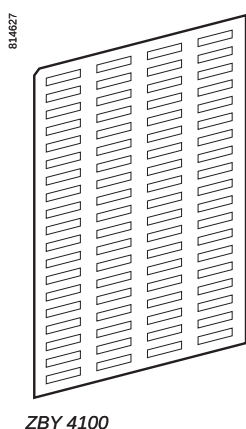
| Description       | For use with   | Colour                     | Sold in lots of | Unit reference | Weight kg |
|-------------------|----------------|----------------------------|-----------------|----------------|-----------|
| Without legend    | Circular heads | —                          | 10              | ZBZ 35         | 0.003     |
|                   | Square heads   | —                          | 10              | ZBC Z35        | 0.002     |
| With blank legend | Circular heads | Black or red background    | 10              | ZBY 6H101      | 0.004     |
|                   |                | White or yellow background | 10              | ZBY 6H102      | 0.004     |
|                   | Square heads   | Black or red background    | 10              | ZBC Y6H101     | 0.003     |
|                   |                | White or yellow background | 10              | ZBC Y6H102     | 0.003     |

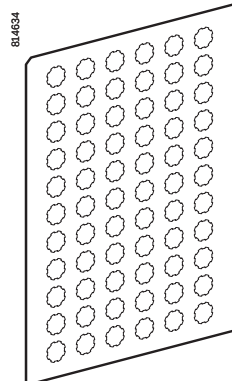
**Legends for engraving**

| Description mm | For use with             | Colour                     | Sold in lots of | Unit reference | Weight kg |
|----------------|--------------------------|----------------------------|-----------------|----------------|-----------|
| 8 x 27         | 30 x 40 mm legend holder | Black or red background    | 10              | ZBY 0101       | 0.001     |
|                |                          | White or yellow background | 10              | ZBY 0102       | 0.001     |
| 18 x 27        | 30 x 50 mm legend holder | Black or red background    | 10              | ZBY 5101       | 0.001     |
|                |                          | White or yellow background | 10              | ZBY 5102       | 0.001     |

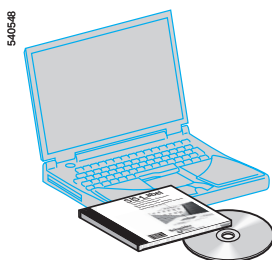
**Sheets of peel-off legends (with backing board and protective transparent cover)**

| Description                       | For use with                                  | Sold in lots of | Unit reference | Weight kg |
|-----------------------------------|-----------------------------------------------|-----------------|----------------|-----------|
| Sheet of 76<br>8 x 27 mm legends  | 30 x 40 mm legend holder<br>ZBZ 32 and ZBZ 34 | 10              | ZBY 4100       | 0.043     |
| Sheet of 40<br>18 x 27 mm legends | 30 x 50 mm legend holder<br>ZBZ 33 and ZBZ 35 | 10              | ZBY 5100       | 0.044     |





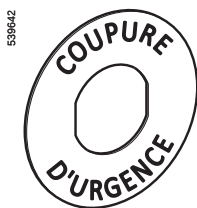
ZBY 1101



XBY 2U



ZBY 9130



ZBY 9160

## Legends for XB5 A pushbuttons, illuminated pushbuttons and pilot lights

| Description                                                        | Marking       | Sold in lots of | Unit reference | Weight kg |
|--------------------------------------------------------------------|---------------|-----------------|----------------|-----------|
| Sheets of 66 circular peel-off, transparent, self-adhesive legends | Without       | 10              | ZBY 1101       | 0.017     |
| Strips of 66 circular peel-off, transparent, self-adhesive legends | International | O               | ZBY 1146       | 0.017     |
|                                                                    |               | I               | ZBY 1147       | 0.017     |
|                                                                    |               | II              | ZBY 1148       | 0.017     |
|                                                                    |               | III             | ZBY 1149       | 0.017     |
|                                                                    |               | STOP            | ZBY 1304       | 0.017     |
|                                                                    |               | ↑               | ZBY 1912       | 0.017     |
|                                                                    | French        | ARRET           | ZBY 1104       | 0.017     |
|                                                                    |               | ARRIERE         | ZBY 1106       | 0.017     |
|                                                                    |               | AUTO            | ZBY 1115       | 0.017     |
|                                                                    |               | AVANT           | ZBY 1105       | 0.017     |
|                                                                    |               | DESCENTE        | ZBY 1108       | 0.017     |
|                                                                    |               | MAIN            | ZBY 1116       | 0.017     |
|                                                                    |               | MARCHE          | ZBY 1103       | 0.017     |
|                                                                    |               | MONTEE          | ZBY 1107       | 0.017     |
|                                                                    | English       | HAND            | ZBY 1316       | 0.017     |
|                                                                    |               | OFF             | ZBY 1312       | 0.017     |
|                                                                    |               | ON              | ZBY 1311       | 0.017     |
|                                                                    |               | START           | ZBY 1303       | 0.017     |
|                                                                    | German        | AB              | ZBY 1208       | 0.017     |
|                                                                    |               | AUF             | ZBY 1207       | 0.017     |
|                                                                    |               | AUS             | ZBY 1204       | 0.017     |
|                                                                    |               | EIN             | ZBY 1203       | 0.017     |
|                                                                    |               | ZU              | ZBY 1214       | 0.017     |
|                                                                    |               |                 | ZBY 1214       | 0.017     |
| Strip of 66 square peel-off, transparent, self-adhesive legends    | Without       | 10              | ZBC Y1101      | 0.017     |

## "SIS Label" labelling software

| Application                                                 | For use with                                                        | Reference | Weight kg |
|-------------------------------------------------------------|---------------------------------------------------------------------|-----------|-----------|
| Legend design for English, French, German, Spanish, Italian | ZBY 1101, ZBY 001<br>ZBY 0101 and ZBY 0102<br>ZBY 5101 and ZBY 5102 | XBY 2U    | 0.100     |

## Circular yellow legends for mushroom head pushbuttons

## Used for "Emergency stop" function

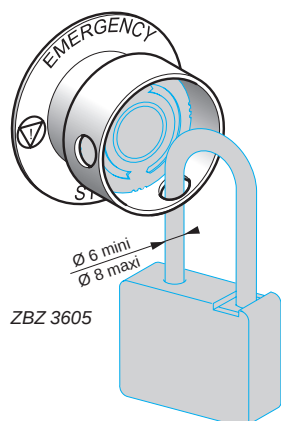
| Diameter mm | Conforming to standards              | Marking on yellow background | Reference | Weight kg |
|-------------|--------------------------------------|------------------------------|-----------|-----------|
| 60          | EN/IEC 60204-1 and EN/ISO 13850:2006 | –                            | ZBY 9140  | 0.004     |
|             |                                      | ARRET D'URGENCE              | ZBY 9130  | 0.004     |
|             |                                      | EMERGENCY STOP               | ZBY 9330  | 0.004     |
|             |                                      | NOT-HALT                     | ZBY 9230  | 0.004     |
|             |                                      | PARADA DE EMERGENCIA         | ZBY 9430  | 0.004     |
|             |                                      | ARRESTO DE EMERGENZA         | ZBY 9630  | 0.004     |
|             |                                      |                              |           |           |
| 90          | EN/IEC 60204-1 and EN/ISO 13850:2006 | –                            | ZBY 8140  | 0.008     |
|             |                                      | ARRET D'URGENCE              | ZBY 8130  | 0.008     |
|             |                                      | EMERGENCY STOP               | ZBY 8330  | 0.008     |
|             |                                      | NOT-HALT                     | ZBY 8230  | 0.008     |
|             |                                      | PARADA DE EMERGENCIA         | ZBY 8430  | 0.008     |
|             |                                      | ARRESTO DE EMERGENZA         | ZBY 8630  | 0.008     |
|             |                                      |                              |           |           |

## Used for "Emergency switching off" function

|    |                |                           |          |       |
|----|----------------|---------------------------|----------|-------|
| 60 | EN/IEC 60204-1 | –                         | ZBY 9101 | 0.004 |
|    |                | COUPURE D'URGENCE         | ZBY 9160 | 0.004 |
|    |                | EMERGENCY SWITCHING OFF   | ZBY 9360 | 0.004 |
|    |                | NOT-AUS                   | ZBY 9260 | 0.004 |
|    |                | DESCONEXION DE EMERGENCIA | ZBY 9460 | 0.004 |
|    |                | INTERRUZIONE DI EMERGENZA | ZBY 9660 | 0.004 |
| 90 | EN/IEC 60204-1 | –                         | ZBY 8101 | 0.008 |
|    |                | COUPURE D'URGENCE         | ZBY 8160 | 0.008 |
|    |                | EMERGENCY SWITCHING OFF   | ZBY 8360 | 0.008 |
|    |                | NOT-AUS                   | ZBY 8260 | 0.008 |
|    |                | DESCONEXION DE EMERGENCIA | ZBY 8460 | 0.008 |
|    |                | INTERRUZIONE DI EMERGENZA | ZBY 8660 | 0.008 |

New

General :  
page 80Characteristics :  
page 88Dimensions :  
page 146



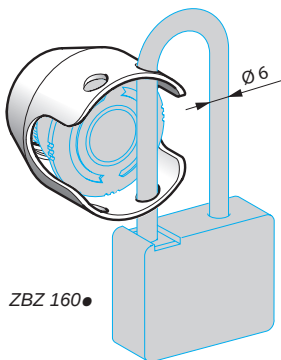
ZBZ 3605



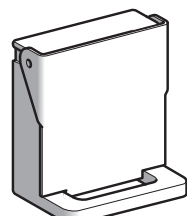
ZBY 9130T



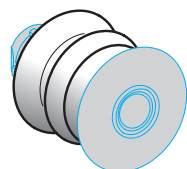
ZBY 9160T



ZBZ 160●



ZB4 BZ64



ZBZ ●8

### Accessories for mushroom head pushbuttons

#### Used for Emergency stop (1) or Emergency switching off function (2)

| Description                                       | For use with                                                                                                                                                                                 | Colour | Reference       | Weight kg |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-----------|
| <b>Padlocking kit</b><br>(3) (4)<br>(padlockable) | Emergency stop (1) and<br>Emergency switching off<br>function (2),<br>only with the following<br>Ø 40 trigger action pushbuttons:<br>XB5 AS844●,<br>XB5 AS944●,<br>ZB5 AS844,<br>ZB5 AS944●. | Yellow | <b>ZBZ 3605</b> | 0.045     |

| Description                                                                                                 | Marking                 | Colour | Reference        | Weight kg |
|-------------------------------------------------------------------------------------------------------------|-------------------------|--------|------------------|-----------|
| <b>Ø 60 mm legend<br/>for padlocking device<br/>ZBZ 3605</b><br>For Emergency stop<br>function (1)          | Without                 | Yellow | <b>ZBY 9140T</b> | 0.004     |
|                                                                                                             | ARRET D'URGENCE         | Yellow | <b>ZBY 9130T</b> | 0.004     |
|                                                                                                             | EMERGENCY STOP          | Yellow | <b>ZBY 9330T</b> | 0.004     |
|                                                                                                             | NOT-HALT                | Yellow | <b>ZBY 9230T</b> | 0.004     |
| <b>Ø 60 mm legend<br/>for padlocking device<br/>ZBZ 3605</b><br>For Emergency<br>switching off function (2) | Without                 | Yellow | <b>ZBY 9101T</b> | 0.004     |
|                                                                                                             | COUPURE D'URGENCE       | Yellow | <b>ZBY 9160T</b> | 0.004     |
|                                                                                                             | EMERGENCY SWITCHING OFF | Yellow | <b>ZBY 9360T</b> | 0.004     |
|                                                                                                             | NOT-AUS                 | Yellow | <b>ZBY 9260T</b> | 0.004     |

|                                        |                                                                                                                                                                               |                 |                 |       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-------|
| <b>Metal guards</b><br>Padlockable (4) | Emergency stop function (1)<br>only with the following<br>Ø 40 trigger action pushbuttons:<br>XB5 AT845,<br>XB5 AS844<br>XB5 AS9445,<br>ZB5 AT84,<br>ZB5 AS844,<br>ZB5 AS944. | Chromium plated | <b>ZBZ 1600</b> | 0.046 |
|                                        |                                                                                                                                                                               | Black           | <b>ZBZ 1602</b> | 0.046 |
|                                        |                                                                                                                                                                               | Red             | <b>ZBZ 1604</b> | 0.046 |
|                                        |                                                                                                                                                                               | Blue            | <b>ZBZ 1606</b> | 0.046 |

### Other accessories

| Description              | For use with                       | Colour | Reference       | Weight kg |
|--------------------------|------------------------------------|--------|-----------------|-----------|
| <b>Plastic guard</b>     | Selector switches and key switches | Black  | <b>ZBZ 2102</b> | 0.005     |
| <b>Padlockable flaps</b> | Pushbuttons                        | Black  | <b>ZB4 BZ62</b> | 0.076     |
|                          |                                    | Red    | <b>ZB4 BZ64</b> | 0.076     |
|                          |                                    | Yellow | <b>ZB4 BZ65</b> | 0.076     |
|                          |                                    | Blue   | <b>ZB4 BZ66</b> | 0.076     |

| Description                                                          | Application                                                                    | Material | Colour | Sold in lots of | Unit reference | Weight kg |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------|----------|--------|-----------------|----------------|-----------|
| <b>Bellows seals for<br/>harsh environments<br/>(IP 69K)<br/>(5)</b> | Environments subject<br>to humidity, dust,<br>high-pressure cleaning<br>etc... | Silicone | Red    | 2               | <b>ZBZ 48</b>  | 0.009     |
|                                                                      |                                                                                | EPDM     | Black  | 2               | <b>ZBZ 28</b>  | 0.009     |
|                                                                      |                                                                                |          | Yellow | 2               | <b>ZBZ 58</b>  | 0.009     |

(1) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850:2006.

(2) Ensures conformity with standard EN/IEC 60204-1.

(3) Standard circular legends are not compatible with this product. Use special legends ZBY 9●●●T.

(4) No isolation function is possible when this guard is fitted.

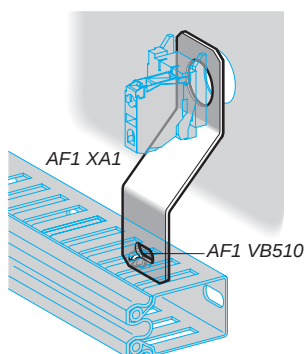
(5) Only when mounted on control stations. Use legends ZBY 9●●●T.



ZB5 SZ3

## Other accessories (continued)

| Description                                              | For use with                         | Colour          | Sold in lots of | Unit reference | Weight kg |
|----------------------------------------------------------|--------------------------------------|-----------------|-----------------|----------------|-----------|
| Black plastic square blanking plug (with fixing nut) (1) | Ø 22 mm control and signalling units | Chromium plated | 10              | ZB5 SZ5        | 0.009     |
|                                                          |                                      | Black           | 10              | ZB5 SZ37       | 0.009     |
| Black plastic circular blanking plug (with fixing nut)   | Ø 22 mm control and signalling units |                 | 10              | ZB5 SZ3        | 0.009     |
| Liquid spray protective washer to be fitted in the head  | Ø 22 mm control and signalling units | Chromium plated | 50              | ZB4 BZ007      | 0.010     |
|                                                          |                                      | Black           | 50              | ZB4 BZ0077     | 0.010     |



| Description                                | Application                                      | Sold in lots of | Unit reference | Weight kg |
|--------------------------------------------|--------------------------------------------------|-----------------|----------------|-----------|
| Cable ducting support                      | Fixing beneath head                              | 10              | AF1 XA1        | 0.030     |
| M5 x 10 screw, with hexagonal slotted head | For fixing cable ducting                         | 100             | AF1 VB510      | 0.003     |
| Support                                    | For XB5 A pushbuttons, switches and pilot lights | 1               | DX1 AP52       | 0.160     |

(1) Body/fixing collar ZB5 AZ009 required for mounting must be ordered separately, see page 123.



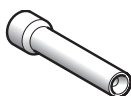
DL1 CJO●●●



DL1 CE●●●



DL1 CF●●●



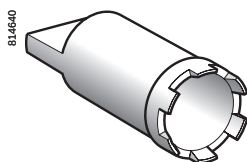
XBF X13



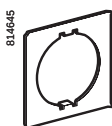
ZBZ 8



ZBZ AZ31



ZB5 AZ905



ZB5 AZ902

## Bulbs with BA 9s base fitting and associated accessories

| Description              | Characteristics                                   | Colour | Sold in lots of | Unit reference | Weight kg |
|--------------------------|---------------------------------------------------|--------|-----------------|----------------|-----------|
| LEDs                     | ~ 24 V                                            | White  | 1               | DL1 CJ0241     | 0.002     |
|                          |                                                   | Green  | 1               | DL1 CJ0243     | 0.002     |
|                          |                                                   | Red    | 1               | DL1 CJ0244     | 0.002     |
|                          |                                                   | Orange | 1               | DL1 CJ0245     | 0.002     |
|                          |                                                   | Blue   | 1               | DL1 CJ0246     | 0.002     |
|                          | ~ 48 V                                            | Green  | 1               | DL1 CJ0483     | 0.002     |
|                          |                                                   | Red    | 1               | DL1 CJ0484     | 0.002     |
|                          |                                                   | Orange | 1               | DL1 CJ0485     | 0.002     |
|                          | 6 V - 1.2 W                                       | White  | 1               | DL1 CD0061     | 0.002     |
|                          |                                                   | Green  | 1               | DL1 CD0063     | 0.002     |
|                          |                                                   | Red    | 1               | DL1 CD0064     | 0.002     |
|                          |                                                   | Orange | 1               | DL1 CD0065     | 0.002     |
|                          |                                                   | Blue   | 1               | DL1 CD0066     | 0.002     |
| Incandescent bulbs       | 6 V - 1.2 W                                       | —      | 10              | DL1 CB006      | 0.002     |
|                          | 24 V - 2 W                                        | —      | 10              | DL1 CE024      | 0.002     |
|                          | 120...130 V<br>2.4 W                              | —      | 10              | DL1 CE130      | 0.002     |
| Neon bulbs               | 120...130 V                                       | —      | 10              | DL1 CF110      | 0.002     |
|                          | 230...240 V                                       | —      | 10              | DL1 CF220      | 0.002     |
| Bulb extractor           | —                                                 | —      | 1               | XBF X13        | 0.005     |
| Lens cap tightening tool | Illuminated pushbuttons, with flush push          | —      | 1               | ZBZ 8          | 0.009     |
| Add-on square trim       | Gives a square appearance to ZB5 A circular heads |        | 10              | ZB5 AZ31       | 0.002     |
| Nut                      | Head fixing                                       |        | 10              | ZB5 AZ901      | 0.002     |
| Bezel tool               | Tightening head fixing nut ZB5 AZ901              |        | 1               | ZB5 AZ905      | 0.016     |
| Anti-rotation plate      | Prevents rotation of the head                     |        | 10              | ZB5 AZ902      | 0.008     |

## Replacement keys

| Description                                                         | Key number | Reference | Weight<br>kg |
|---------------------------------------------------------------------|------------|-----------|--------------|
| <b>For latching mushroom head pushbuttons and selector switches</b> |            |           |              |
| Sets of 2 keys                                                      | 455        | ZBG 455   | 0.013        |
|                                                                     | 421E       | ZBG 421E  | 0.014        |
|                                                                     | 458A       | ZBG 458A  | 0.014        |
|                                                                     | 520E       | ZBG 520E  | 0.014        |
|                                                                     | 3131A      | ZBG 3131A | 0.014        |
|                                                                     | 4A185      | ZBD A185  | 0.014        |
|                                                                     | LU1        | ZBD LU1   | 0.014        |
|                                                                     | LU2        | ZBD LU2   | 0.014        |
|                                                                     | LU3        | ZBD LU3   | 0.014        |
|                                                                     | LU4        | ZBD LU4   | 0.014        |
|                                                                     | LU5        | ZBD LU5   | 0.014        |
|                                                                     | LU6        | ZBD LU6   | 0.014        |
|                                                                     | LU7        | ZBD LU7   | 0.014        |
|                                                                     | LU8        | ZBD LU8   | 0.014        |
|                                                                     | LU9        | ZBD LU9   | 0.014        |
|                                                                     | LU10       | ZBD LU10  | 0.014        |
|                                                                     | LU11       | ZBD LU11  | 0.014        |
|                                                                     | LU12       | ZBD LU12  | 0.014        |
|                                                                     | LU13       | ZBD LU13  | 0.014        |
|                                                                     | LU14       | ZBD LU14  | 0.014        |
|                                                                     | 8D1        | ZBD 8D1   | 0.014        |

## For booted selector switches

|                                                                     |       |            |   |
|---------------------------------------------------------------------|-------|------------|---|
| Sets of 2 keys,<br>one of which<br>supplied booted<br>(rubber boot) | 455   | ZBG 455P   | — |
|                                                                     | 421E  | ZBG 421EP  | — |
|                                                                     | 458A  | ZBG 458AP  | — |
|                                                                     | 520E  | ZBG 520EP  | — |
|                                                                     | 3131A | ZBG 3131AP | — |

## Accessory for key switches (1)

| Description                    | Function                                                  | Reference | Weight<br>kg |
|--------------------------------|-----------------------------------------------------------|-----------|--------------|
| Keyhole cover<br>(rubber boot) | Protection of lock barrel when<br>no key inserted in lock | ZBG P     | 0.005        |

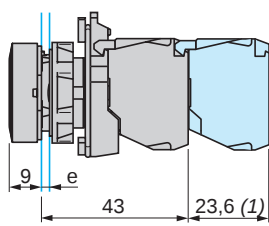
(1) Not compatible with products with key TEC10.



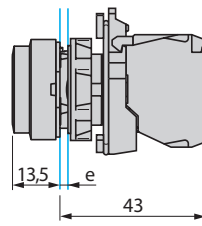
ZBG 455P

##### Pushbuttons, spring return

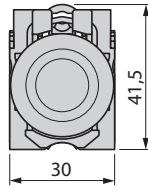
XB5 AA●●



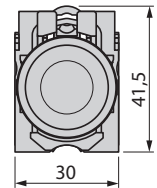
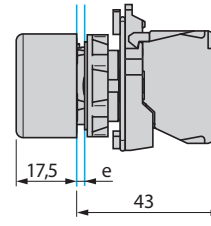
XB5 AL●●



Common face view



XB5 AP●●



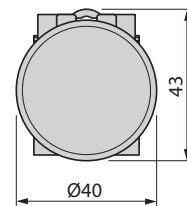
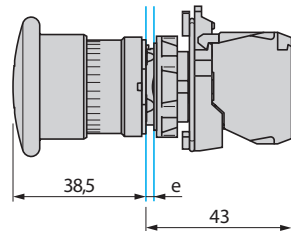
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

##### Mushroom head pushbuttons, spring return

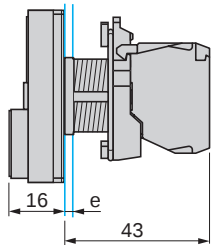
XB5 AC21



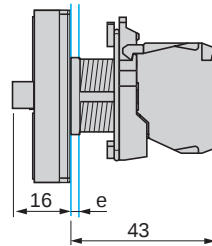
e: clamping thickness: 1 to 6 mm

##### Multiple-headed pushbuttons (double or triple), spring return

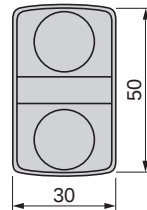
XB5 AL73415, XB5 AW73731●5



XB5 AA731327, XB5 AA711237



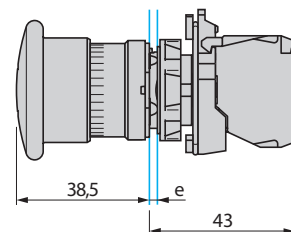
Common face view



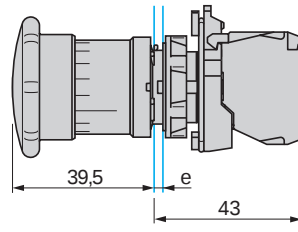
e: clamping thickness: 1 to 6 mm

##### Emergency stop mushroom head pushbuttons, trigger action and mechanical latching

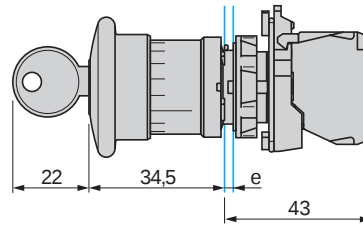
XB5 AT845



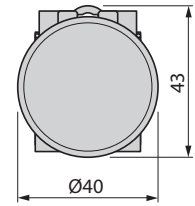
XB5 AS8445



XB5 AS9445



Common face view

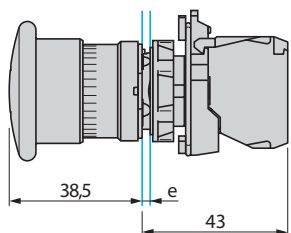


e: clamping thickness: 1 to 6 mm

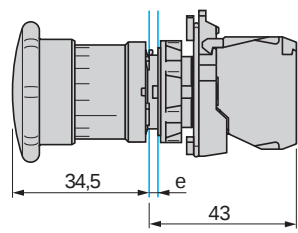
e: clamping thickness: 1 to 6 mm

##### Emergency switching off mushroom head pushbuttons, mechanical latching

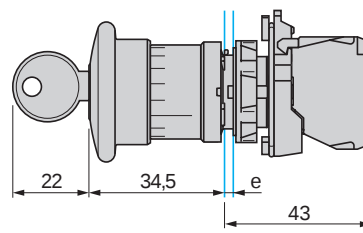
XB5 AT42



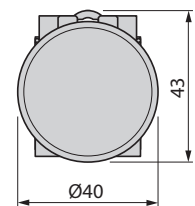
XB5 AS542



XB5 AS142



Common face view



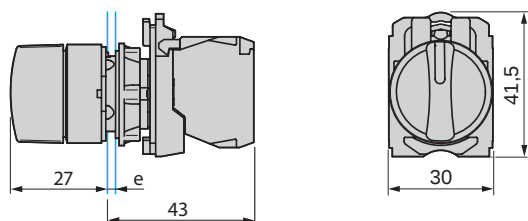
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

## Selector switches

### Standard handle operator

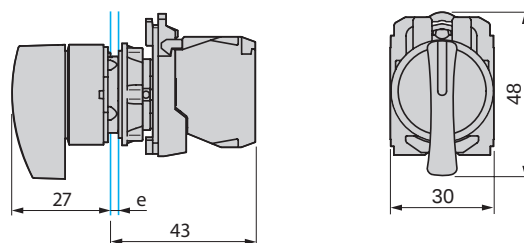
XB5 AD●●



e: clamping thickness: 1 to 6 mm

### Long handle operator

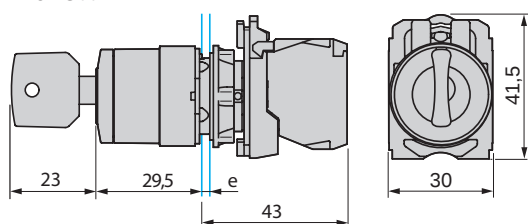
XB5 AJ●●



e: clamping thickness: 1 to 6 mm

## Key switches

XB5 AG●●

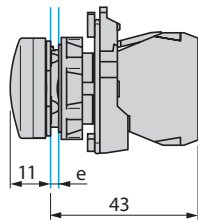


e: clamping thickness: 1 to 6 mm

## Pilot lights

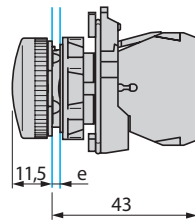
### Integral LED

XB5 AVB●, AVG●, AVM●



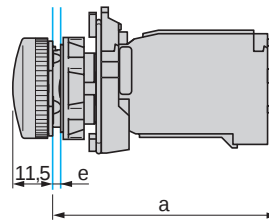
### Direct supply

XB5 AV6●

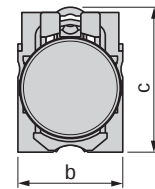


### Via integral transformer

XB5 AV3●, AV4●



Common face view



|           | a    | b  | c    |
|-----------|------|----|------|
| XB5 AV●●  | 43   | 30 | 41.5 |
| XB5 AV5B● | 89,6 | 40 | 45   |

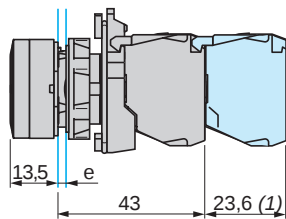
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

## Illuminated pushbuttons

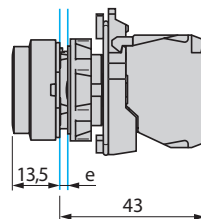
### Integral LED

XB5 AW3●●5



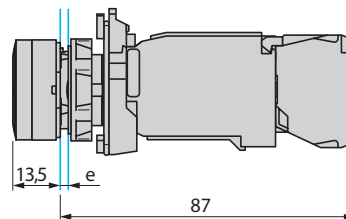
### Direct supply

XB5 AW3●65

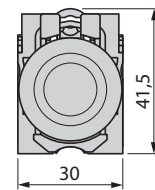


### Via integral transformer

XB5 AW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

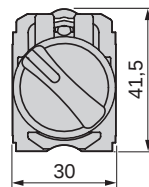
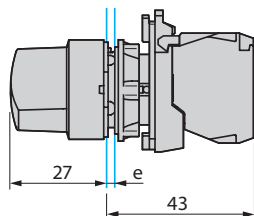
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

## Illuminated selector switches

### Integral LED

XB5 AK12●●5

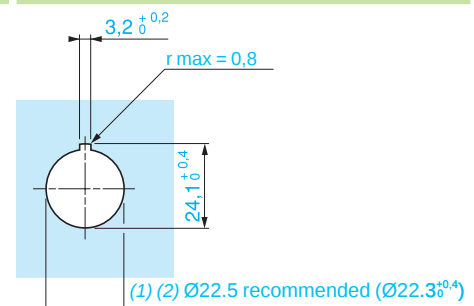
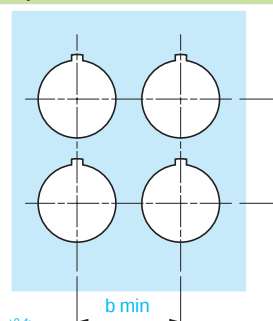
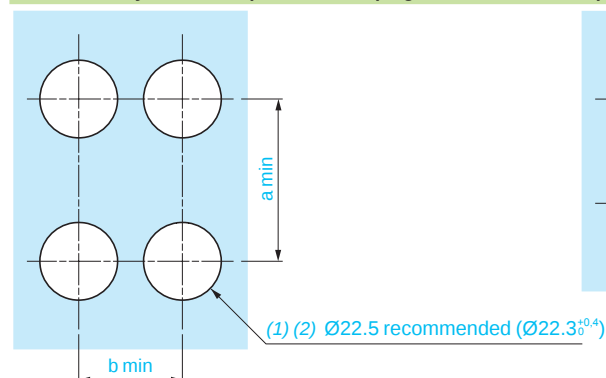


e: clamping thickness: 1 to 6 mm

## Panel cut-out for pushbuttons, switches and pilot lights (finished holes, ready for installation)

### Connection by screw clamp terminals or plug-in connectors or on printed circuit board

### Detail of lug recess



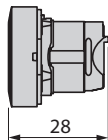
(1) Diameter on finished panel or support.

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended, see page 144.

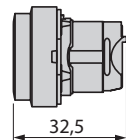
| Connections                                   | a  | b  |
|-----------------------------------------------|----|----|
| By screw clamp terminals or plug-in connector | 40 | 30 |
| By Faston connectors                          | 45 | 32 |
| On printed circuit board                      | 30 | 30 |

## Heads for spring return pushbuttons

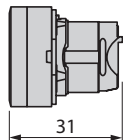
ZB5 AA●●, AA●●●, ZB5 AA●8



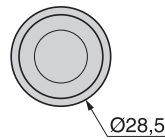
ZB5 AL●, ZB5 AL●●



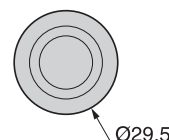
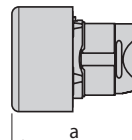
ZB5 AA●4, ZB5 AA●6



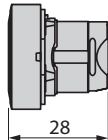
Common face view



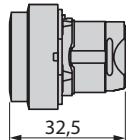
ZB5 AP●●, ZB5 AP●S, ZB5 AP●83, ZB5 AP●



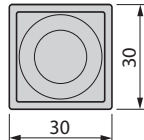
ZB5 CA●, ZB5 CA0



ZB5 CL●



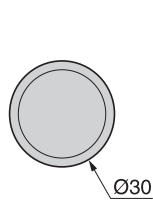
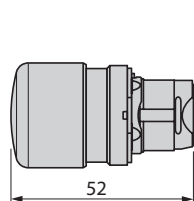
Vue de face commune



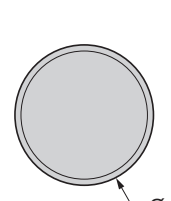
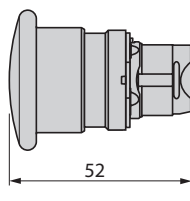
| ZB5   | a    |
|-------|------|
| AP●●  | 36.5 |
| AP●S  | 33   |
| AP●83 | 32   |
| AP●   | 35   |

## Mushroom heads for spring return pushbuttons

ZB5 AC●4

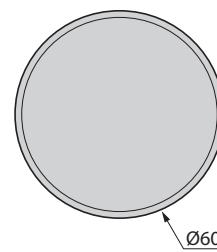
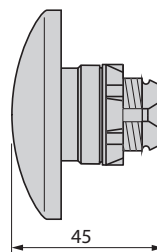


ZB5 AC●, AR●



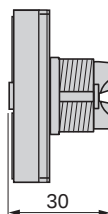
| ZB5 | Ø  |
|-----|----|
| AC● | 40 |
| AR● | 60 |

ZB5 AR●16

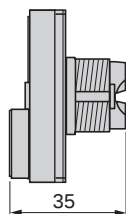


## Heads for double-headed, spring return pushbuttons

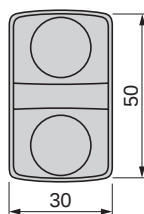
ZB5 AA712●, ZB5 AA734●, ZB5 AA79



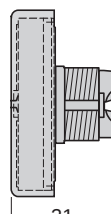
ZB5 AL734●



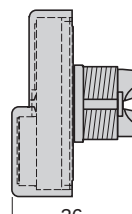
Common face view



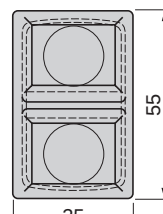
ZB5 AA712●, ZB5 AA734●, ZB5 AA79, + boot ZBA 708



ZB5 AL734● + boot ZBA 710

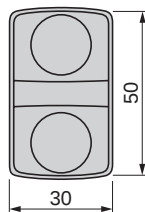
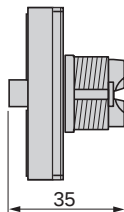


Common face view

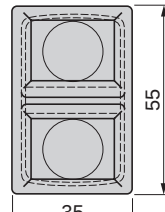
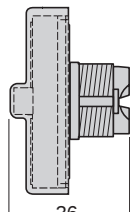


## Heads for triple-headed, spring return pushbuttons

ZB5 AA7313●, ZB5 AA711●●, ZB5 AA72124, ZB5 AA791

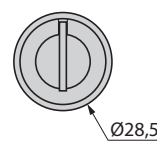
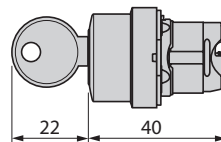


ZB5 AA7313●, ZB5 AA711●●, ZB5 AA72124, ZB5 AA791 + boot ZBA 709



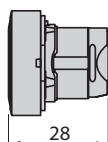
## Heads for lockable, Push-turn pushbuttons

ZB5 AFD

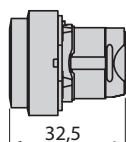


## Heads for Push-push to release pushbuttons

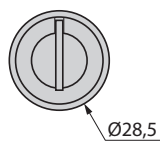
ZB5 AH0●



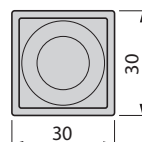
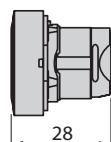
ZB5 AH●



Common face view



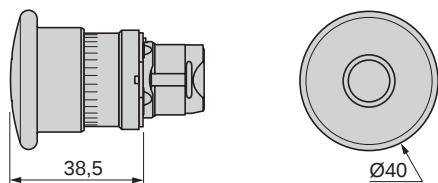
ZB5 CH0●



## Mushroom heads for Emergency stop, trigger action and mechanical latching pushbuttons

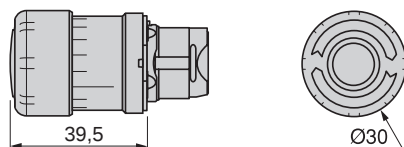
### Push-pull

ZB5 AT84

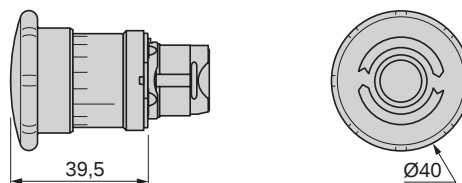


### Turn to release

ZB5 AS834

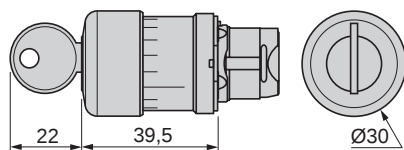


ZB5 AS844

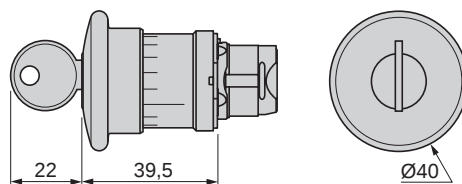


### Key release

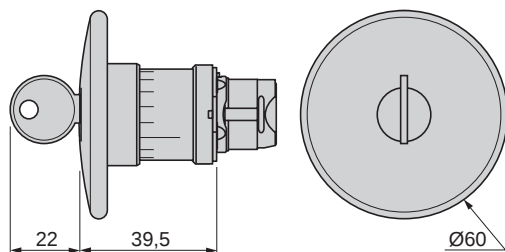
ZB5 AS934



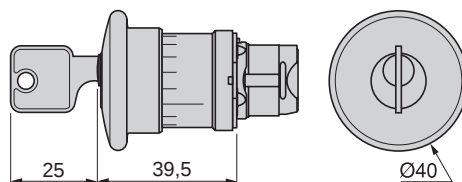
ZB5 AS944



ZB5 AS964



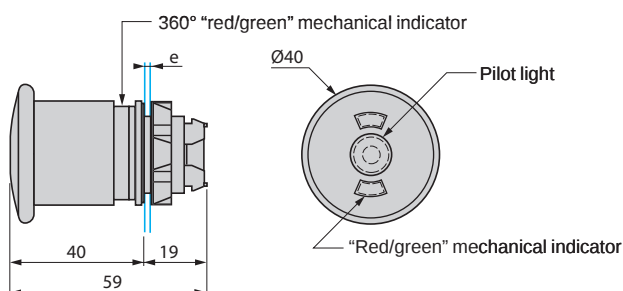
ZB5 AS944D



## Illuminated mushroom heads for Emergency stop, trigger action and mechanical latching pushbuttons

### Push-pull with pilot light and mechanical state indicator

ZB5 AT8643M

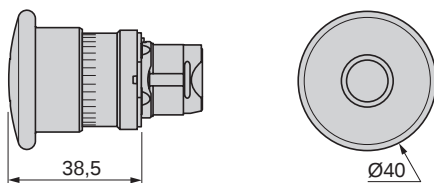


e: panel thickness 1 to 6 mm

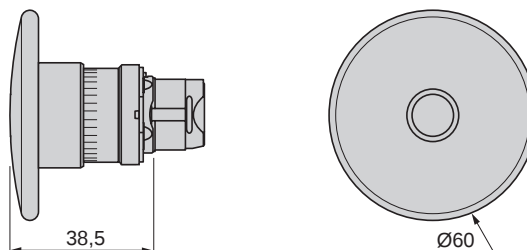
## Mushroom heads for Emergency switching off, mechanical latching pushbuttons

### Push-pull

ZB5 AT4

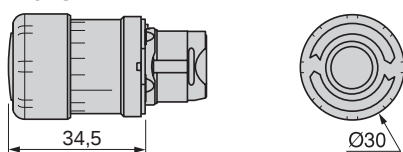


ZB5 AX4

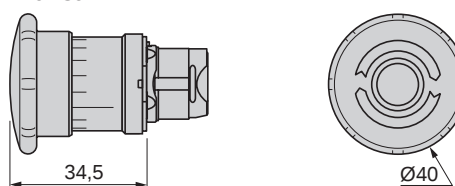


### Turn to release

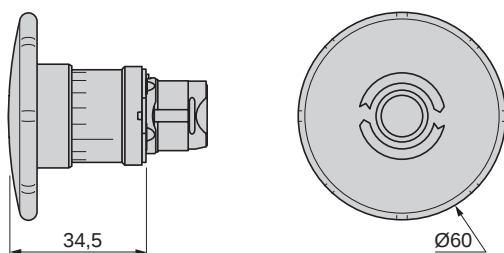
ZB5 AS44



ZB5 AS54

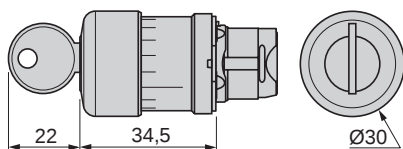


ZB5 AS64

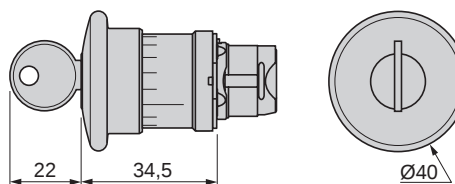


### Key release

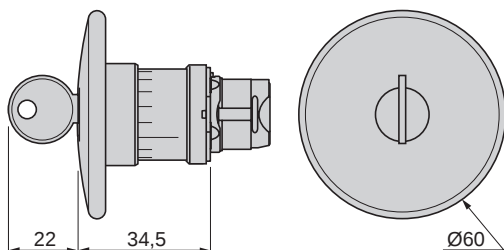
ZB5 AS74



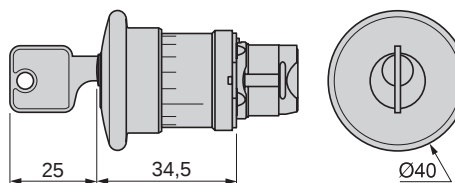
ZB5 AS14



ZB5 AS24



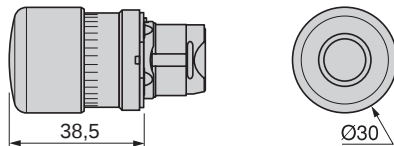
ZB5 AS14D



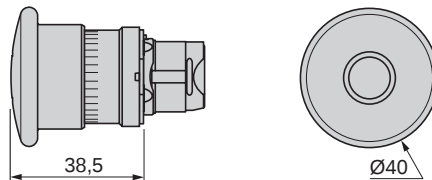
## Mushroom heads for latching pushbuttons (1)

### Push-pull

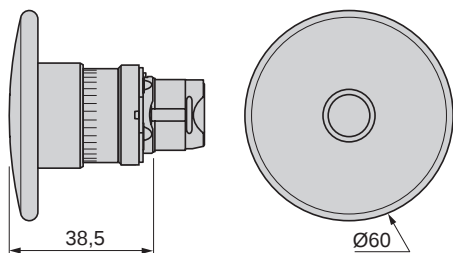
ZB5 AT24



ZB5 AT2

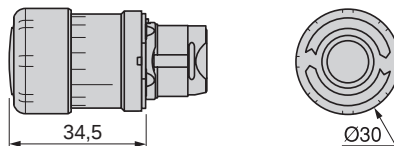


ZB5 AX2

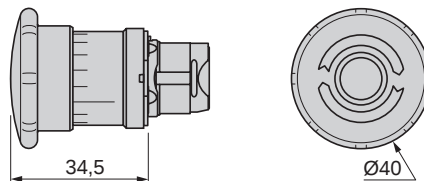


### Turn to release

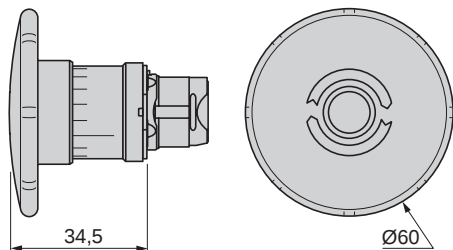
ZB5 AS42



ZB5 AS52, ZB5 AS55

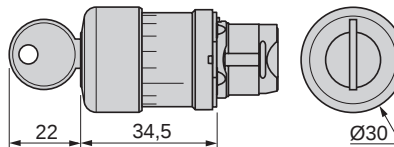


ZB5 AS62

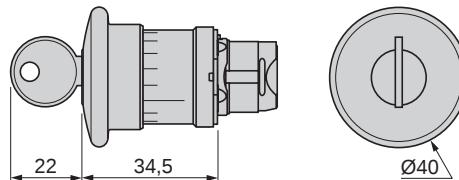


### Key release

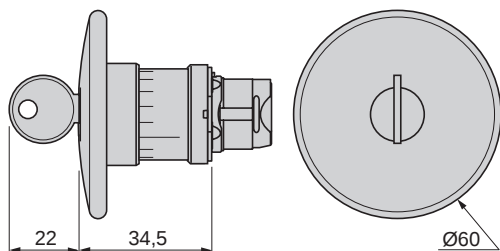
ZB5 AS72



ZB5 AS12



ZB5 AS22

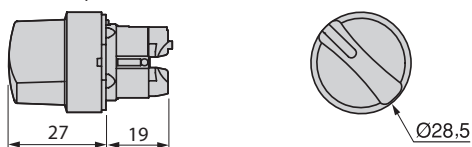


(1) Red mushroom heads for Emergency stop and Emergency switching off, latching pushbuttons: see pages 150 and 151.

## Heads for selector switches

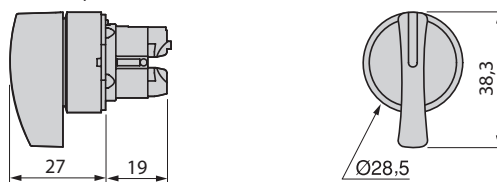
### Standard handle operator

ZB5 AD●, ZB5 AD●M



### Long handle operator

ZB5 AJ●, ZB5 AJ●M



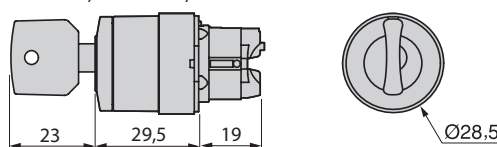
### Black knurled knob

ZB5 AD●9



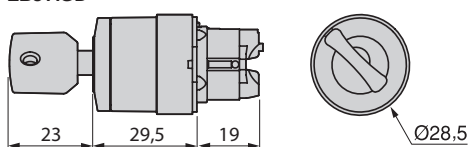
### Key switch (Ronis n° 455)

ZB5 AG●, ZB5 AG0●, ZB5 AG●M



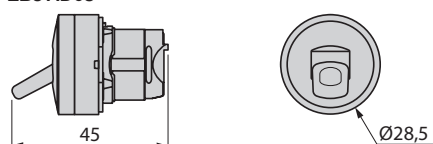
### Key switch (DOM n° 8D1)

ZB5 AGD



## Heads for toggle switches

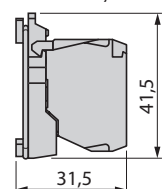
ZB5 AD●8



## Bodies for pushbuttons and switches

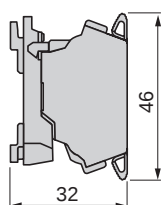
### Screw clamp terminal connections

ZB5 AZ10●, ZB5 AZ141



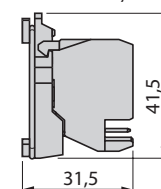
### Spring terminal connections

ZB5 AZ10●5



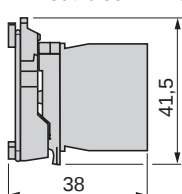
### Plug-in connector

ZB5 AZ10●4, ZB5 AZ1414



### High power switching with screw clamp terminal connections

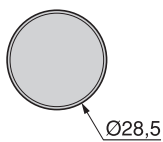
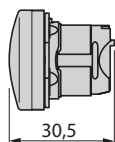
ZBE 50● block + ZB5 AZ009 body



## Heads for pilot lights, with light source

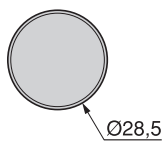
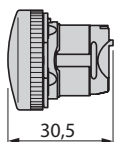
### Integral LED

ZB5 AV0●3

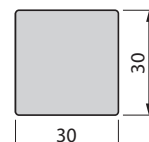
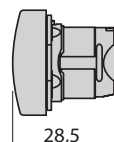


### Incandescent, neon or LED

ZB5 AV0●, AV0●S



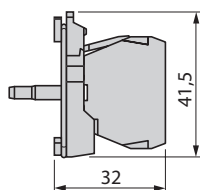
ZB5 CV0●3, CH3●3



## Bodies for pilot lights, screw clamp terminal connections

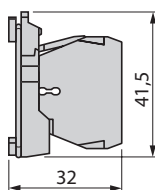
### Integral LED

ZB5 AV●●



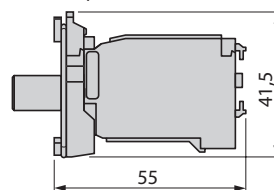
### Direct supply, for BA 9s bulb

ZB5 AV6



### With integral transformer, for BA9s bulb

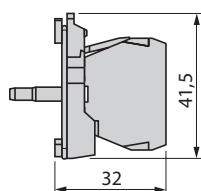
ZB5 AV●, AV●D●



## Bodies for pilot lights, plug-in connector

### Integral LED

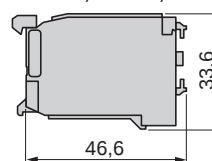
ZB5 AV●●4



### Transformer blocks

#### For 24 V light blocks with integral LED

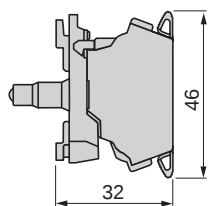
ZBV 5B, ZBV 8B, ZBV 9B



## Light blocks + body for pilot lights, spring terminal connections

### Integral LED

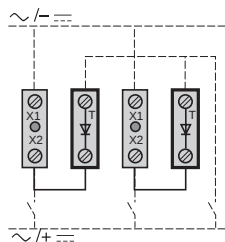
ZBV ●●5 light block + ZB5 AZ009 body



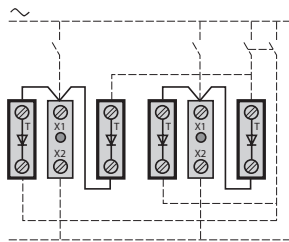
## Blocks for "test light" function

### Connections

ZBZ G156



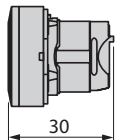
ZBZ M156



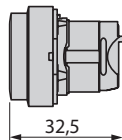
## Heads for spring return illuminated pushbuttons, for light source types:

### LED

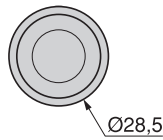
ZB5 AW3●3, AW3●3S,  
ZB5 AA●8



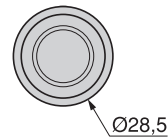
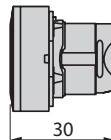
ZB5 AW1●3, ZB5 AW1●3S,  
ZB5 AL●8



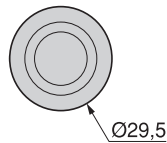
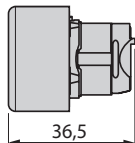
Common face view



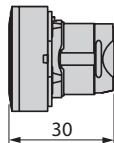
ZB5 AW9●3



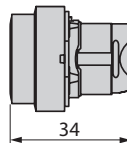
ZB5 AW5●3



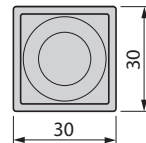
ZB5 CW3●3



ZB5 CW1●3

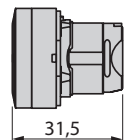


Common face view

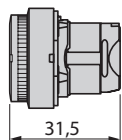


### Bulb with BA9s base fitting

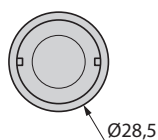
ZB5 AW3●, AW3●S



ZB5 AW1●, ZB5 AW1●S

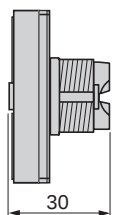


Common face view

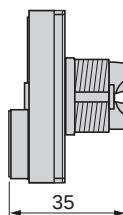


## Heads for double-headed pushbuttons + pilot light

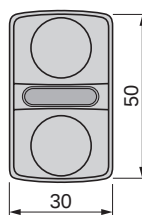
ZB5 AW7A374●, ZB5 AW7A17●●, ZB5 AW7A9



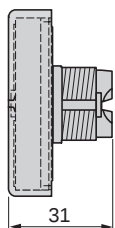
ZB5 AW7L374●



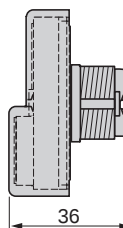
Common face view



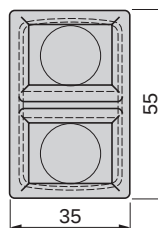
ZB5 AW7A374●, ZB5 AW7A17●●, ZB5 AW7A9  
+ boot ZBA 708



ZB5 AW7L374●  
+ boot ZBA 710

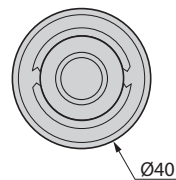
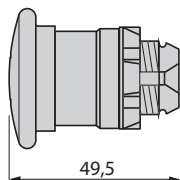


Common face view

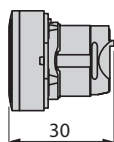


## Heads for illuminated, latching, mushroom head pushbuttons

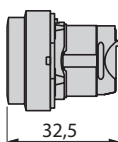
ZB5 AW7●3



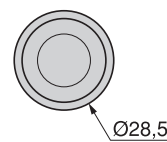
ZB5 AH0●3



ZB5 AH●3

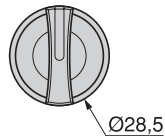
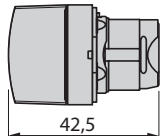


Common face view



## Heads for illuminated selector switches with standard handle

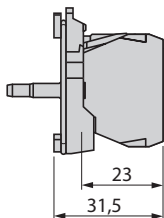
ZB5 AK1●●●3



## Bodies for illuminated pushbuttons and selector switches, screw clamp terminal connections

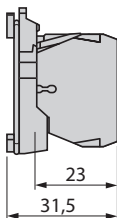
### Integral LED

ZB5 AW0●●●



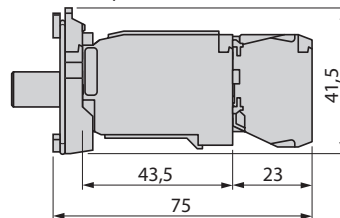
### Direct supply for BA9s bulb

ZB5 AW0●●



### With integral transformer for BA9s bulb

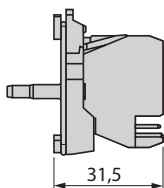
ZB5 AW0●●, ZB5 AW0●D●●



## Bodies for illuminated pushbuttons and selector switches, plug-in connector

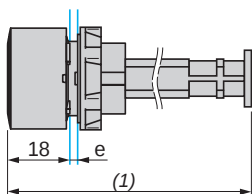
### Integral LED

ZB5 AW0●●●4



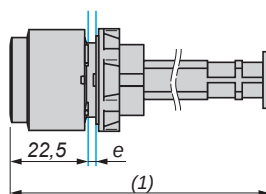
## Manual overload reset buttons

XB5 A8●●●



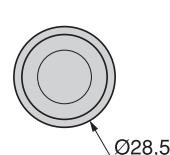
e: panel thickness 1 to 6 mm

XB5 AL8●●●



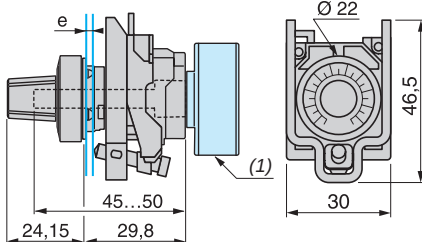
(1) Value not yet communicated

Common face view



## Head + mounting base for potentiometer

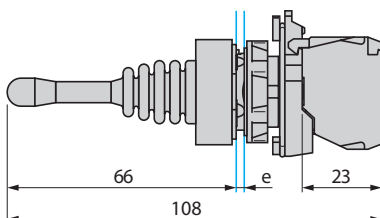
ZB5 AD9●2



(1) Potentiometer not included.

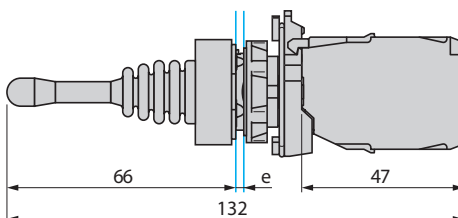
## Joystick controllers

XD5 PA●2

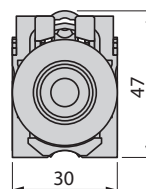


e: panel thickness 1 to 6 mm

XD5 PA●4

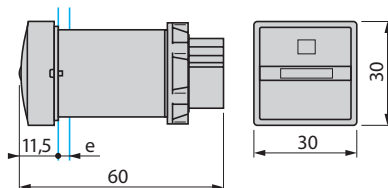


Common face view



## Hour counters

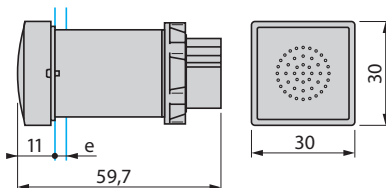
XB5 DS●



e: panel thickness 1 to 6 mm

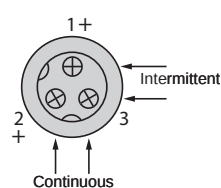
## Annunciators

XB5 KS●



## Cabling

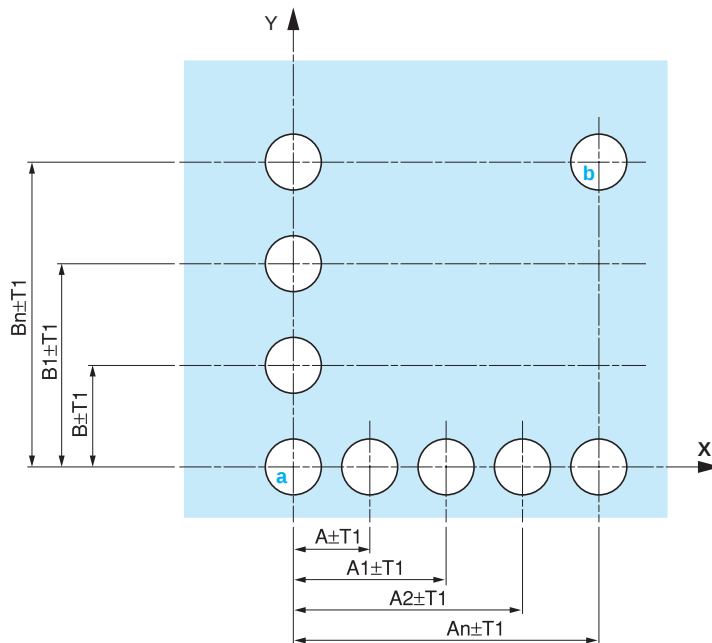
XB5 KS●



#### Pushbuttons, switches and pilot lights for printed circuit board connection

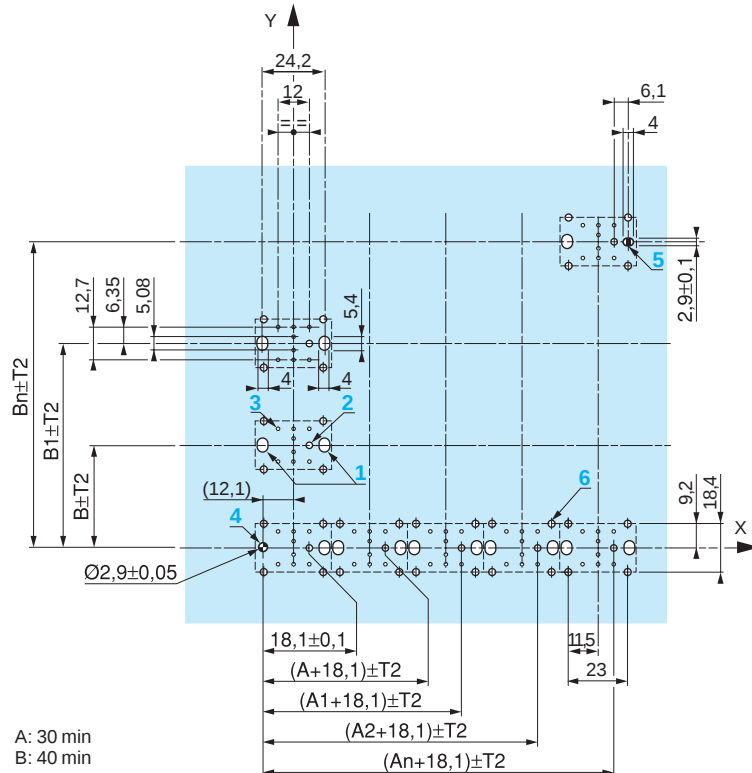
##### Panel cut-outs (viewed from installer's side)

Dimensions in mm



##### Printed circuit board cut-outs (viewed from electrical block side)

Dimensions in mm



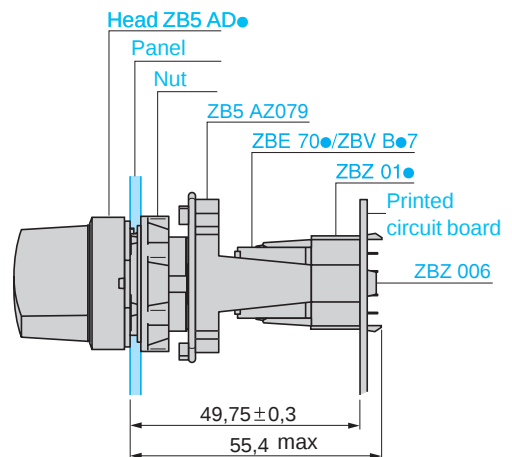
##### General tolerances of the panel and printed circuit board

The cumulative tolerance must not exceed 0.3 mm:  $T1 + T2 = 0.3 \text{ mm max.}$

##### ■ Installation precautions:

- Minimum thickness of circuit board: 1.6 mm.
- Cut-out diameter:  $22.4 \text{ mm} \pm 0.1 \text{ mm}$ .
- Orientation of body/fixing collar ZB5 BZ079:  $\pm 2^\circ 30'$  (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB5 BZ079 fixing collar/pillar and its fixing screws:
  - every 90 mm horizontally (X), and 120 mm vertically (Y),
  - with each selector switch head (ZB5 AD●, ZB5 AJ●, ZB5 AG●).

The fixing centres marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.



##### ■ Mounting of adapter (socket) ZBZ 01●:

- 1 2 elongated holes for ZBZ 006 screw access.
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05$  for centring adapter ZBZ 01●.
- 3 8 x  $\varnothing 1.2 \text{ mm}$  holes.
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05$ , for aligning the printed circuit board (with cut-out marked **a**).
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**).
- 6 4 holes  $\varnothing 2.4 \text{ mm}$  for clipping in adapter ZBZ 01●.

Dimensions  $An + 18.1$  relate to the  $\varnothing 2.4 \text{ mm} \pm 0.05$  holes for centring adapter ZBZ 01●.