

Control and signalling units Ø 22

Harmony® XB4, metal

Pushbuttons, switches and pilot lights

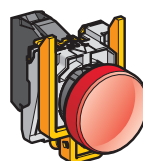
Description

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

Complete units with chromium plated metal bezel, XB4 B

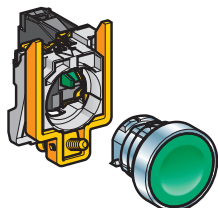


Pushbuttons and switches

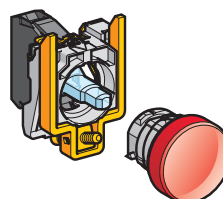


Pilot lights

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

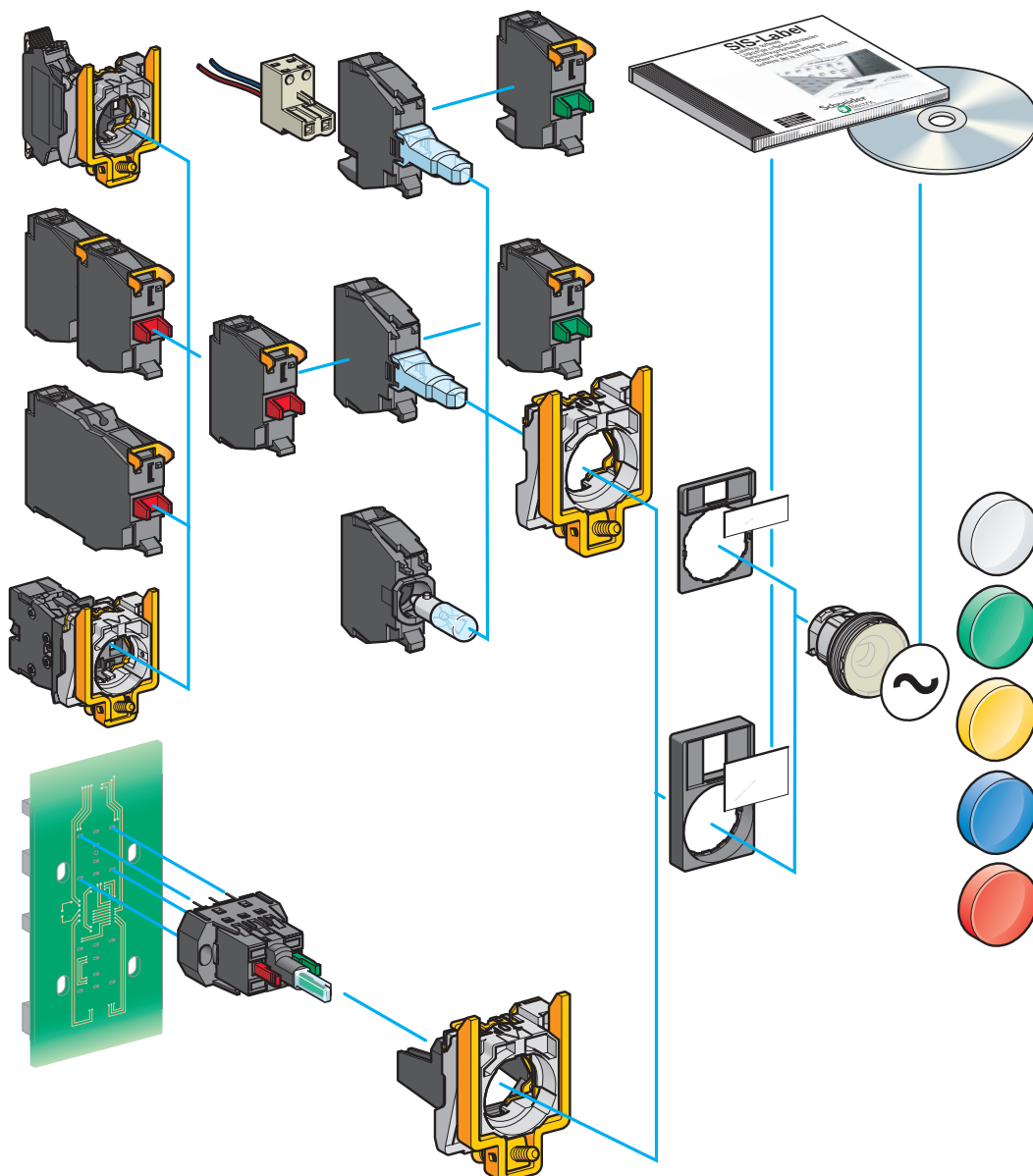


Pushbuttons and switches:
body + head sub-assemblies



Pilot lights:
body + head sub-assemblies

ZB component parts and accessories



Schematic library

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

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

Contact functions (selector switches)

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

Signalling functions

Pilot light with BA 9s incandescent bulb	LED pilot light	Pilot light with integral transformer 230 V primary, 6 V secondary BA 9s bulb, incandescent or LED

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

Illuminated pushbutton, BA 9s incandescent bulb N/O+N/C contacts	Illuminated pushbutton LED - N/O+ N/C contacts	Illuminated pushbutton with integral transformer 230 V ~ 50/60 Hz primary, 6 V secondary 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 N/O + N/C contacts

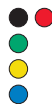
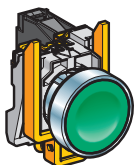
Joystick controller functions

2 direction	2 direction	4 direction	4 direction
Without spring return	With spring return	Without spring return	With spring return

Complete units

Contact functions

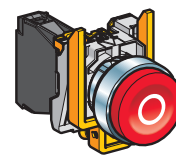
Pushbuttons, spring return,
with chromium plated metal
bezel



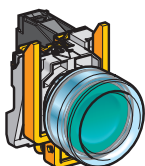
Flush push, unmarked
XB4 BA1/BA42
see page 20



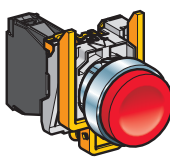
Flush push, with marking
XB4 BA3311
see page 22



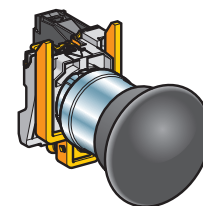
Projecting push, with marking
XB4 BL4322
see page 22



Booted flush push
XB4 BP1/BP42
see page 21



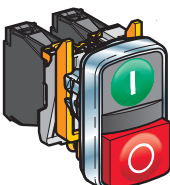
Projecting push, unmarked
XB4 BL42
see page 20



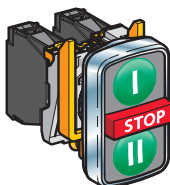
Ø 40

Mushroom head
XB4 BC21
see page 28

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

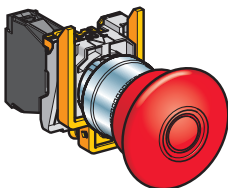


Double-headed
XB4 BL73415
see page 26

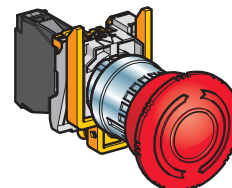


Triple-headed
XB4 BA731327/XB4 BA711237
see page 27

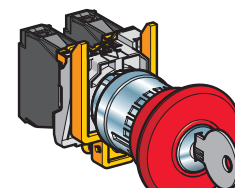
Emergency Stop or
Emergency switching off
mushroom head
pushbuttons, Ø 40, with
chromium plated metal bezel



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

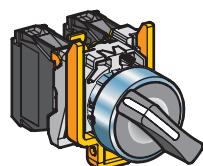
Emergency switching off
mechanical latching

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

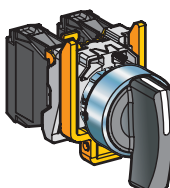
Turn to release (IEC 60364-5-53)
XB4 BS542
see page 31

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

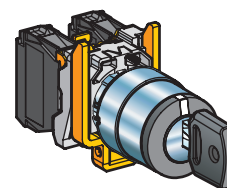
Selector switches and key
switches, with chromium
plated metal bezel



Standard handle, black
XB4 BD
see page 34



Long handle, black
XB4 BJ
see page 35

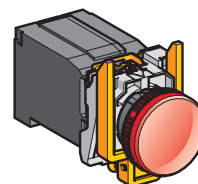
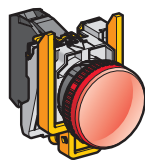
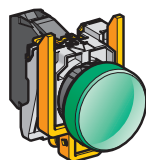


Key switch
XB4 BG
see page 36

Complete units

Signalling functions

Pilot lights



Integral LED

XB4 BVB●/BVG●/BVM●
see page 40

For bulb with BA 9s base fitting
Direct supply

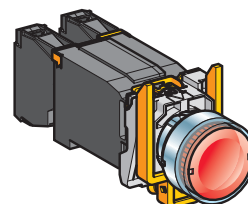
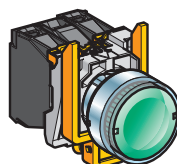
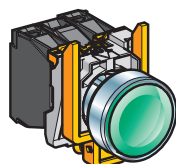
XB4 BV6●
see page 41

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

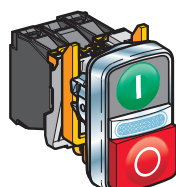
For bulb with BA 9s base fitting
Direct supply

XB4 BW3●65
see page 25

Via integral transformer

XB4 BW3●35/BW3●45
see page 25

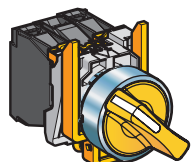
Double-headed pushbuttons + pilot light block, spring return, chromium plated metal bezel



Integral LED

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

Illuminated selector switches with standard handle, chromium plated metal bezel

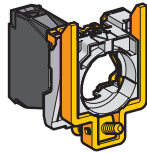
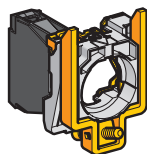
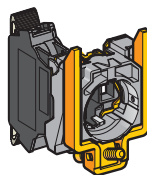


Integral LED

XB4 BK12●●5, XB4 BK13●●5
see page 38

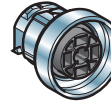
Control and signalling units Ø 22

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

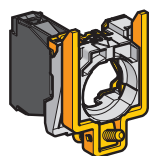
Head sub-assemblies, chromium plated or black metal bezel

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)

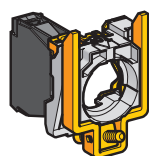
Contact functions

For mushroom head
pushbuttons



Screw clamp terminals
ZB4 BZ10●/BZ141
page 44

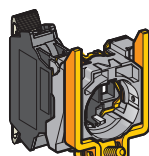
For Emergency Stop or
Emergency switching off
mushroom head pushbuttons



Faston
ZB4 BZ10●3
page 48

Emergency stop trigger
action and mechanical
latching

Emergency switching off
mechanical latching



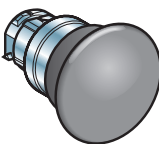
Spring clamp terminals
ZBE 10●5
ZB4 BZ10●5
page 46

Emergency stop trigger
action and mechanical
latching

Emergency switching off
mechanical latching

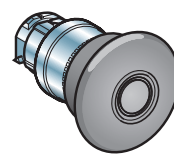
For selector switches
and key switches

Head sub-assemblies, chromium plated or black metal bezel



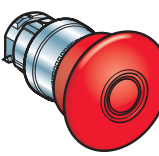
Ø 30
Ø 40
Ø 60

Spring return
ZB4 BC●/BR●
see page 28



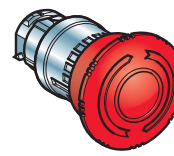
Ø 30
Ø 40
Ø 60

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

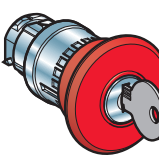


Ø 30
Ø 40
Ø 60

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

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

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

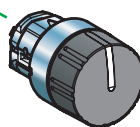
Key release (IEC 60364-5-3)
ZB4 BS74/BS14/BS24
see page 31



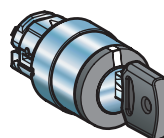
Standard black
handle (1)
ZB4 BD●
page 34



Long black handle
(1)
ZB4 BJ●
page 35

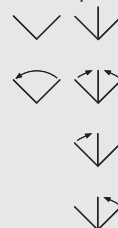


Knurled black knob
(1)
ZB4 BD●9
page 37

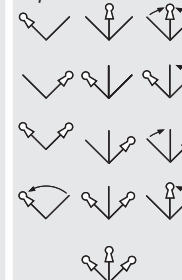


Key switch (2)
ZB4 BG●●/
BG●TEC10
page 37

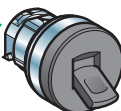
(1) Switch handle
and knob positions



(2) Key switch
positions
Key withdrawal
positions



For toggle switches



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

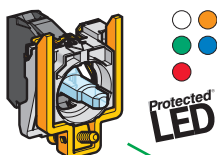
(3) Lever positions



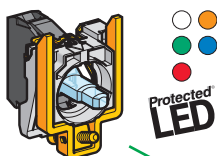
Pilot lights for user assembly

Signalling functions

Body sub-assemblies with integral LED



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

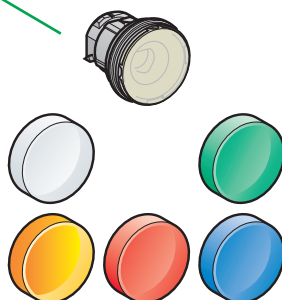


Connection: plug-in
connector
ZB4 BVB●4/BVG●4/
BVM●4
please consult your
Regional Sales Office

Head sub-assemblies



With lens fitted
ZB4 BV0●3
see page 40

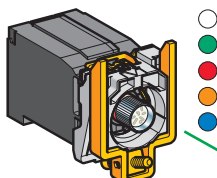


With 5 separate lenses, not fitted
ZB4 BV003
see page 40

Body sub-assemblies for BA 9s bulb



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

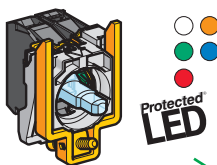


Via integral transformer
Connection: screw clamp
terminals
ZB4 BV●D●
see page 55

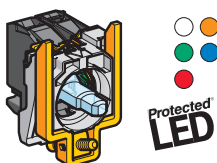
Head sub-assemblies



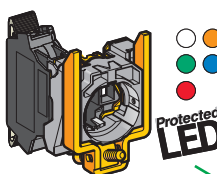
With lens fitted
ZB4 BV0●, ZB4 BV0●S
see page 41

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

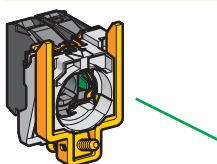
Screw clamp terminals

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 28

Double-headed (flush/flush push) + central pilot light

Triple-headed (flush/projecting push) + central pilot light

ZB4 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 standard version			"TH" treatment
Ambient air temperature around the device	Storage	°C	- 40...+ 70
	Operation	°C	- 25...+ 70: LED and neon bulb versions - 25...+ 55: incandescent bulb version
Electric shock protection	Conforming to IEC 61140		Class I
Degree of protection	Conforming to IEC 60529		IP 66 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 ⁵ (70 bar); distance: 0.1 m Temperature: 55°C
Mechanical shock protection	Conforming to IEC 50102		Non illuminated heads: IK 03 Illuminated heads: IK 05 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 30), IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons, see page 31) 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 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD4 PA/ZD4 PA: A600; R300 Special contact blocks: □ ZBE 201: A300; Q300 □ ZBE 202: A600; Q600 Single contacts for high power switching: □ ZBE 501 and ZBE 502: A300; P300
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 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 18)			
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 Changing N/O state: 2.6 Total travel: 4.3
Operating force	Pushbutton	N	Changing N/C state: 3.5 Changing N/O state: 3.8
	Additional contact only (extra to change state)	N	Single N/C contact: 2 Single N/O contact: 2.3
		N	Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6
	Emergency stop or Emergency switching off with N/C + N/O	N	Standard push-pull: 45 Trigger action push-pull: 50
		N	Standard turn to release and key release: 40 Trigger action turn to release and key release, "trigger action": 44

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

Mechanical characteristics (continued)				
Operating torque (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 (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 3 contacts
	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: □ half sine wave acceleration 11 ms: 50 gn □ half sine wave acceleration 18 ms: 30 gn
				Mushroom head pushbutton, spring return: □ half sine wave acceleration 11 ms: 10 gn
Electrical characteristics				
Cabling capacity	Conforming to EN/IEC 60947-1		mm ²	Standard block with screw clamp or spring terminals: Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screws (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (maxi 1.2 N.m) Contact blocks for high power switching: Min: 1 x 0.5 without cable end 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 Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)			Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection
Short-circuit protection	Conforming to EN/IEC 60947-5-1d		A	Standard single and double blocks with screw clamp or spring terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector: 4 (gG cartridge fuse conforming to IEC 60269-1) 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 Blocks for plug-in connector: 10 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: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston connectors: Standard blocks for printed circuit board connection Contact blocks for high-power switching: 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 Blocks for plug-in connector Standard blocks for printed circuit board connection Contact blocks for high-power switching applications: Uimp = 4

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

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: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A Blocks for plug-in connector: A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A Standard blocks for printed circuit board connection: B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A Special contact blocks: □ ZBE 201: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V) □ ZBE 202: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A Contact blocks for high power switching: □ ZBE 50: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A
		d.c. supply: utilisation category DC-13		Standard single and double blocks with screw clamp or spring terminals Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A Joystick controllers XD4 PA/ZD4 PA: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A Blocks for plug-in connector: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A Standard blocks for printed circuit board connection: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A Special contact blocks: □ ZBE 201: Q300: Ue = 125 V and Ie = 0.55 A or Ue = 250 V and Ie = 0.27 A □ ZBE 202: Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A Contact block for high power switching: □ ZBE 50: P300: Ue = 125 V and Ie = 1.1 A or Ue = 250 V and Ie = 0.55 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 IEC/EN 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 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 or spring terminals: 24 110 0.5 0.2
			V A	Standard double blocks with screw clamp terminals and blocks four 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 Half sine wave acceleration 18 ms: 30 gn
Electrical characteristics			
Cabling capacity	Conforming to EN/IEC 60947-1	mm ²	Screw clamp and spring terminals Min: 1 x 0.22 without cable end (1 x 0.34 for linking) 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): U _i = 250, degree of pollution 3 Pilot light blocks with integral LED: U _i = 250, degree of pollution 3 Pilot light blocks with transformer: U _i = 600, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	kV	Direct supply pilot light blocks (BA 9s bulb): U _{imp} = 4 Pilot light blocks with integral LED: U _{imp} = 4 Pilot light blocks with transformer: U _{imp} = 6

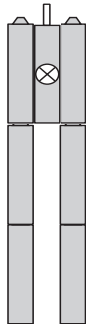
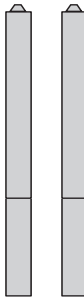
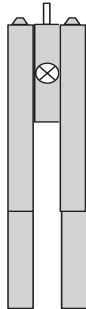
Specific characteristics of single light blocks with integral LED

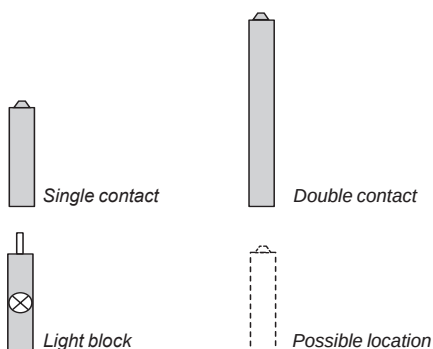
Voltage limits	For rated voltage	V	12 V: 10 to 15 ~; 10.2 to 13.8 ~ 24 V: 19.2 to 30 ~; 21.6 to 26.4 ~ 24 to 120 V: 19.2 to 132 ~; 21.6 to 132 ~ 48 to 120 V: 40 to 132 ~ 230/240 V: 195 to 264 ~
Current consumption	Applicable to all colours	mA	Blocks with ~ 12 V supply: 18 Blocks with ~ 24 V supply: 18 Blocks with ~ 120 V supply: 14 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 6: on contact, on metal parts
Direct parallel connection across inductive load 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 XB5 DSG: 8 XB5 DSM: 8
	Annunciator	mA	5

Maximum recommended configurations guaranteeing achievement of catalogue characteristics

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

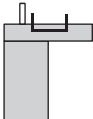
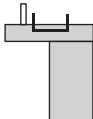
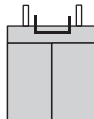
Possible configurations for high power switching contacts ^{(1) (2)}

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

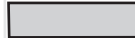
ZBE 5013, ZBE 5023, ZBE 5033, ZBE 5043 and ZBE 5053

		
1 N/O	1 N/C	1 N/O + N/C 1 N/O + N/O 1 N/C + N/C

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

Emergency stop or Emergency switching off XB4BT●, ZB4BT●, XB4BS●, ZB4BS●		Selector switches ■ Standard handle XB4 BD●, ZB4 BD●, ■ Long handle XB4 BJ●, ZB4 BJ●, ■ Knurled knob ZB4 BD●9, ■ Key switch XB4 BG●, ZB4 BG●				Illuminated selector switches, standard handle XB4 BK●, ZB4 BK●	Toggle switches ZB5 AD●8 Pushbuttons, push-turn to release, knurled operator ZB5 AF●, or lockable ZB5 FAD●	Pushbuttons, push-push ZB4 BH●	Illuminated pushbuttons, push-push 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

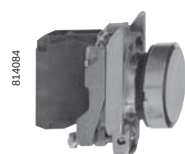
Unit type			Selector switches														
			2-position						3-position								
			315° 			45° 			315° 			0° 		45° 			
Push	Position	Top															
		Bottom															
	Location	L	C	R	L	C	R	L	C	R	L	C	R	L	C	R	
	State	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	
Contacts	N/O																
	N/C																
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



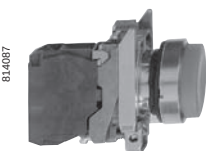
ZB4 BA4



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	XB4 BA11 (ZB4 BZ101 + ZB4 BA1)	0.080
				Black	XB4 BA21 (ZB4 BZ101 + ZB4 BA2)	0.080
				Green	XB4 BA31 (ZB4 BZ101 + ZB4 BA3)	0.080
				Yellow	XB4 BA51 (ZB4 BZ101 + ZB4 BA5)	0.080
				Blue	XB4 BA61 (ZB4 BZ101 + ZB4 BA6)	0.080
		—	1	Red	XB4 BA42 (ZB4 BZ102 + ZB4 BA4)	0.080

Heads only

	Without cap (2)	—			ZB4 BA0	0.028
	Flush, with set of 6 coloured caps			6 colours (3)	ZB4 BA9	0.038
	Flush			White	ZB4 BA1	0.029
				Black	ZB4 BA2	0.029
				Green	ZB4 BA3	0.029
				Red	ZB4 BA4	0.029
				Yellow	ZB4 BA5	0.029
				Blue	ZB4 BA6	0.029
	Flush with transparent cap for insertion of legend (4)			Grey	ZB4 BA8	0.029
				White	ZB4 BA18	0.028
				Green	ZB4 BA38	0.028
				Red	ZB4 BA48	0.028
				Yellow	ZB4 BA58	0.028
				Blue	ZB4 BA68	0.028
	Flush (high bezel)			White	ZB4 BA14	0.034
				Black	ZB4 BA24	0.034
				Green	ZB4 BA34	0.034
				Red	ZB4 BA44	0.034
				Yellow	ZB4 BA54	0.034
				Blue	ZB4 BA64	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	XB4 BL42 (ZB4 BZ102 + ZB4 BL4)	0.081
--	------------	---	---	-----	--	-------

Heads only

	Projecting			White	ZB4 BL1	0.030
				Black	ZB4 BL2	0.030
				Green	ZB4 BL3	0.030
				Red	ZB4 BL4	0.030
				Yellow	ZB4 BL5	0.030
				Blue	ZB4 BL6	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)

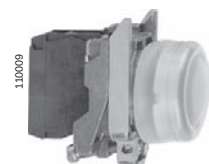
High guard

Shape of head	Type of push	Colour	Reference	Weight kg
	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

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			
Complete units						
	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



XB4 BP21

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

	Flush	Clear boot (2) 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 BP18

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) 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 BP2S



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.

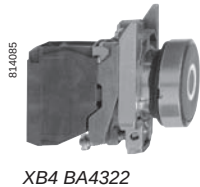
(4) Replacement of silicone protection element without dismantling head, see page 57.

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 (1)							
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 (ZB4 BZ101 + ZB4 BA331)	0.080
	Flush	–	1	"O" (white)	Red	XB4 BA4322 (ZB4 BZ102 + ZB4 BA432)	0.080
	Projecting	–	1	"O" (white)	Red	XB4 BL4322 ▲ (ZB4 BZ102 + ZB4 BL432)	0.080
	Flush (2)	1	–	↑ (black)	White	XB4 BA3341 (ZB4 BZ101 + ZB4 BA334)	0.080
	Flush (2)	1	–	↓ (white)	Black	XB4 BA3351 (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.

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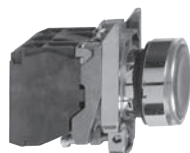
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Assembly of other products using:
body/contact assemblies: see page 44
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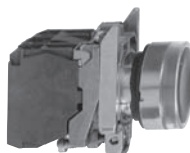
Control and signalling units Ø 22

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 50/60 Hz	White	XB4 BW31B5 (ZB4 BW0B15 + ZB4 BW313)	0.097
					Green	XB4 BW33B5 (ZB4 BW0B35 + ZB4 BW333)	0.097
					Red	XB4 BW34B5 (ZB4 BW0B45 + ZB4 BW343)	0.097
					Orange	XB4 BW35B5 (ZB4 BW0B55 + ZB4 BW353)	0.097
					Blue	XB4 BW36B5 (ZB4 BW0B65 + ZB4 BW363)	0.097
				~ 110...120 50/60 Hz	White	XB4 BW31G5 (ZB4 BW0G15 + ZB4 BW313)	0.097
					Green	XB4 BW33G5 (ZB4 BW0G35 + ZB4 BW333)	0.097
					Red	XB4 BW34G5 (ZB4 BW0G45 + ZB4 BW343)	0.097
					Orange	XB4 BW35G5 (ZB4 BW0G55 + ZB4 BW353)	0.097
					Blue	XB4 BW36G5 (ZB4 BW0G65 + ZB4 BW363)	0.097
				~ 230...240 50/60 Hz	White	XB4 BW31M5 (ZB4 BW0M15 + ZB4 BW313)	0.097
					Green	XB4 BW33M5 (ZB4 BW0M35 + ZB4 BW333)	0.097
					Red	XB4 BW34M5 (ZB4 BW0M45 + ZB4 BW343)	0.097
					Orange	XB4 BW35M5 (ZB4 BW0M55 + ZB4 BW353)	0.097
					Blue	XB4 BW36M5 (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
Heads only (2) - With plain lens				
	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
Heads only (2) - With plain lens				
	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 (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							
	Direct supply for bulb with BA 9s base fitting, 2.4 W max (bulb not included)	1	1	≤ 250	White	XB4 BW3165 (ZB4 BW065 + ZB4 BW31)	0.097
					Green	XB4 BW3365 (ZB4 BW065 + ZB4 BW33)	0.097
					Red	XB4 BW3465 (ZB4 BW065 + ZB4 BW34)	0.097
					Orange	XB4 BW3565 (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 50/60 Hz	White	XB4 BW3135 (ZB4 BW035 + ZB4 BW31)	0.169
					Green	XB4 BW3335 (ZB4 BW035 + ZB4 BW33)	0.169
					Red	XB4 BW3435 (ZB4 BW035 + ZB4 BW34)	0.169
					Orange	XB4 BW3535 (ZB4 BW035 + ZB4 BW35)	0.169
				~ 230 50 Hz ~220...240 60 Hz	White	XB4 BW3145 (ZB4 BW045 + ZB4 BW31)	0.170
					Green	XB4 BW3345 (ZB4 BW045 + ZB4 BW33)	0.170
					Red	XB4 BW34M5 (ZB4 BW045 + ZB4 BW34)	0.170
					Orange	XB4 BW3545 (ZB4 BW045 + ZB4 BW35)	0.170

XB4 BW3545

Heads only (2) - With plain lens

	Flush	White	ZB4 BW31	0.027
		Green	ZB4 BW33	0.027
		Red	ZB4 BW34	0.027
		Orange	ZB4 BW35	0.027
		Blue	ZB4 BW36	0.027
		Clear	ZB4 BW37	0.027

ZB4 BW33

Heads only (2) - With grooved lens (3)

	Flush	White	ZB4 BW31S	0.027
		Green	ZB4 BW33S	0.027
		Red	ZB4 BW34S	0.027
		Orange	ZB4 BW35S	0.027
		Blue	ZB4 BW36S	0.027
		Clear	ZB4 BW37S	0.027

Illuminated pushbuttons with projecting push (1)

Heads only (2) - With plain lens

	Projecting	White	ZB4 BW11	0.028
		Green	ZB4 BW13	0.028
		Red	ZB4 BW14	0.028
		Orange	ZB4 BW15	0.028
		Blue	ZB4 BW16	0.028
		Clear	ZB4 BW17	0.028

ZB4 BW14

Heads only (2) - With grooved lens (3)

	Projecting	White	ZB4 BW11S	0.027
		Green	ZB4 BW13S	0.027
		Red	ZB4 BW14S	0.027
		Orange	ZB4 BW15S	0.027
		Blue	ZB4 BW16S	0.027
		Clear	ZB4 BW17S	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**.

(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 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-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 (1 flush black + 1 projecting red)	1	1	White "I" on green background White "O" on red background	XB4 BL73415	0.116
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Heads only

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

	1 flush black push 1 projecting red push			Green background + red background, unmarked	ZB4 BL7340	0.056
				White "I" on green background 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 1 projecting red push 1 white central pilot light block	1	1	White "I" on green background 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 1 clear central pilot light (4)			White background + black background, unmarked		ZB4 BW7A1720	0.056
				Black "I" on white background White "O" on black background		ZB4 BW7A1721	0.056
				Green background + red background, unmarked		ZB4 BW7A3740	0.056
				White "I" on green background White "O" on red background		ZB4 BW7A3741	0.056
				Black "+" on white background White "+" on black background		ZB4 BW7A1724	0.056
				Black "-" on white background Black "-" on white background		ZB4 BW7A1715	0.056
				Without cap (3)		ZB4 BW7A9	0.056

	1 flush black push 1 projecting red push 1 clear central pilot light (4)			Green background + red background, unmarked		ZB4 BW7L3740	0.056
				White "I" on green background 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

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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 White "II" on green background	XB4 BA731327	0.128
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	1	1	1	Black "→" on white background 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 White "II" on green background	ZB4 BA73132	0.056
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	White "←" on green background White "→" on green background	ZB4 BA73133	0.056
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	White "↑" on green background White "↓" on green background	ZB4 BA73134	0.056
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	White "+" on green background White "-" on green background	ZB4 BA73135	0.056
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	Black "+" on white background Black "-" on white background	ZB4 BA71115	0.056
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	Black "→" on white background White "←" on black background	ZB4 BA71123	0.056
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	Black "↑" on white background White "↓" on black background	ZB4 BA71124	0.056
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	White "↑" on black background White "↓" on black background	ZB4 BA72124	0.056
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	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.

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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

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	XB4 BC21 (ZB4 BZ101 + ZB4 BC2)	0.122
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Heads only

	Mushroom head			30	Black	ZB4 BC24	0.075
					Green	ZB4 BC34	0.075
					Red	ZB4 BC44	0.075
					Yellow	ZB4 BC54	0.075
					Blue	ZB4 BC64	0.075
				40	Black	ZB4 BC2	0.074
					Green	ZB4 BC3	0.074
					Red	ZB4 BC4	0.074
					Yellow	ZB4 BC5	0.074
					Blue	ZB4 BC6	0.074
				60	Black	ZB4 BR2	0.093
					Green	ZB4 BR3	0.093
					Red	ZB4 BR4	0.093
					Yellow	ZB4 BR5	0.093
					Blue	ZB4 BR6	0.093
				60 (3) Hemispherical	Black	ZB4 BR216	0.054
					Green	ZB4 BR316	0.054
					Red	ZB4 BR416	0.054
					Yellow	ZB4 BR516	0.054
					Blue	ZB4 BR616	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	ZB4 BW413	0.051
			Green	ZB4 BW433	0.051
			Red	ZB4 BW443	0.051
			Orange	ZB4 BW453	0.051
			Blue	ZB4 BW463	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
Heads only					
	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) (2 keys included with head) (3)  (5)	30	Black	ZB4 BS72	0.066
		40	Black	ZB4 BS12 (4)	0.070
		60	Black	ZB4 BS22	0.090



Illuminated mushroom head pushbuttons (1) (2)

Integral LED

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
Heads only					
	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 (1) (2)

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

Shape of head	Type of reset	Type of contact		Push		Reference	Weight kg
				Ø (mm)	Colour		

Complete units

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

Heads only

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

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	ZBZ 48	0.009
	EPDM	Black	2	ZBZ 28	0.009
		Yellow	2	ZBZ 58	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:
1st quarter 2009.

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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 Ø mm	Colour	Reference	Weight kg
		 N/O  N/C				
Complete units						
	Push-pull	— 1	40	Red	XB4 BT42 (ZB4 BZ102 + ZB4 BT4)	0.125
	Turn to release	— 1	40	Red	XB4 BS542 (ZB4 BZ102 + ZB4 BS54)	0.118
	Key release (key n° 455)  (3)	— 1	40	Red	XB4 BS142 (ZB4 BZ102 + ZB4 BS14)	0.133
Heads only						
	Push-pull		30	Red	ZB4 BT44 ▲	0.077
			40	Red	ZB4 BT4	0.077
			60	Red	ZB4 BX4	0.095
	Turn to release		30	Red	ZB4 BS44	0.066
			40	Red	ZB4 BS54	0.070
			60	Red	ZB4 BS64	0.090
	Key release (key n° 455) 2 keys included with head (5)  (3)		30	Red	ZB4 BS74	0.066
			40	Red	ZB4 BS14 (4)	0.070
			60	Red	ZB4 BS24	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 Ø mm	Colour	Reference	Weight kg
Heads only (6)					
	Push-pull	40	Red	ZB4 BW643	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:
1st quarter 2009.

General :
page 6

Characteristics :
page 14

Dimensions :
page 68

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

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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 (1)				
Shape of head	Type of push	Colour of lens	Reference	Weight kg
Heads only (2)				
	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 (1)				
Shape of head	Type of push	Colour of lens	Reference	Weight kg
Heads only (2)				
	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.

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

Control and signalling units Ø 22

Harmony® XB4, metal

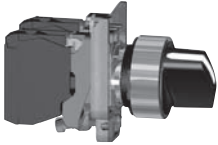
Selector switches with standard handle

Selector switches with standard handle (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		
							kg

Complete units

		Standard handle, black	1	—	2-position 90°	Stay put		XB4 BD21 (ZB4 BZ101 + ZB4 BD2)	0.095
			1	—		Spring return from right to left		XB4 BD41 (ZB4 BZ101 + ZB4 BD4)	0.100
			1	1		Stay put		XB4 BD25 (ZB4 BZ105 + ZB4 BD2)	0.095
			2	—	3-position ± 45°	Stay put		XB4 BD33 (ZB4 BZ103 + ZB4 BD3)	0.095
						Spring return to centre		XB4 BD53 (ZB4 BZ103 + ZB4 BD5)	0.095

Heads only

		Standard handle, black			2-position 90°	Stay put		ZB4 BD2	0.040
						Spring return from right to left		ZB4 BD4	0.045
					3-position ± 45°	Stay put		ZB4 BD3	0.040
						Spring return to centre		ZB4 BD5	0.040
						Spring return from left to centre		ZB4 BD7	0.040
						Spring return from right to centre		ZB4 BD8	0.040

Heads only with other coloured handles

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

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		
kg							
Complete units							
	Long handle, black	1	–	2-position 90°	Stay put	 XB4 BJ21 (ZB4 BZ101 + ZB4 BJ2)	0.096
		2	–	3-position ± 45°	Stay put	 XB4 BJ33 (ZB4 BZ103 + ZB4 BJ3)	0.096
					Spring return to centre	 XB4 BJ53 (ZB4 BZ103 + ZB4 BJ5)	0.096
Heads only							
	Long handle, black			2-position 90°	Stay put	 ZB4 BJ2	0.040
					Spring return from right to left	 ZB4 BJ4	0.045
				3-position ± 45°	Stay put	 ZB4 BJ3	0.040
					Spring return to centre	 ZB4 BJ5	0.040
					Spring return from left to centre	 ZB4 BJ7	0.040
					Spring return from right to centre	 ZB4 BJ8	0.040
	Long handle, padlockable (2)			2-position 90°	Stay put	 ZB4 BJ291	0.048
						 ZB4 BJ292	0.048
						 ZB4 BJ294	0.048
					Spring return from right to left	 ZB4 BJ491	0.054
				3-position ± 45°	Stay put	 ZB4 BJ391	0.048
						 ZB4 BJ392	0.048
						 ZB4 BJ393	0.048
						 ZB4 BJ394	0.048
						 ZB4 BJ395	0.048
						 ZB4 BJ396	0.048
						 ZB4 BJ397	0.048
					Spring return to centre	 ZB4 BJ593	0.048
					Spring return from right to centre	 ZB4 BJ891	0.048
						 ZB4 BJ893	0.048
						 ZB4 BJ895	0.048
					Spring return from left to centre	 ZB4 BJ792	0.048
						 ZB4 BJ793	0.048
						 ZB4 BJ796	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

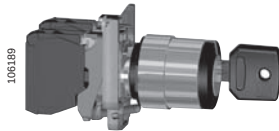
Key n° 455, 421E, 458A, 520E, 3131A

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

Heads only



Key switch with key n° 455 (3) (4)

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

Key switches with key TEC10

Shape of head	Type of operator	Positions Number	Type	Reference	Weight kg
Heads only					
	Key switch with key TEC10	2-position 90°	Stay put	 ZB4 BG2TEC10	0.160
				 ZB4 BG4TEC10	0.160
			Spring return from right to left	 ZB4 BG6TEC10	0.170
		3-position ± 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)

Shape of head	Type of operator	Positions Number	Type	Reference	Weight kg
Heads only					
	Black knurled knob	2-position 90°	Stay put	 ZB4 BD29	0.043
			Spring return from right to left	 ZB4 BD49	0.050
		3-position ± 45°	Stay put	 ZB4 BD39	0.040
			Spring return to centre	 ZB4 BD59	0.040
			Spring return from left to centre	 ZB4 BD79	0.040
			Spring return from right to centre	 ZB4 BD89	0.040

Toggle switches (1)

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

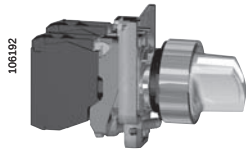
(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

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

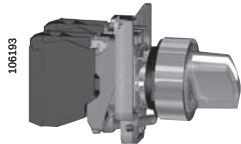
Control and signalling units Ø 22

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 ⁽¹⁾								
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 Stay put 90°	~ 24 (50/60 Hz)	Green	XB4 BK123B5 (ZB4 BW0B35 + ZB4 BK1233)	0.101
						Red	XB4 BK124B5 (ZB4 BW0B45 + ZB4 BK1243)	0.101
						Orange	XB4 BK125B5 (ZB4 BW0B55 + ZB4 BK1253)	0.101
					~ 110...120 (50/60 Hz)	Green	XB4 BK123G5 (ZB4 BW0G35 + ZB4 BK1233)	0.101
						Red	XB4 BK124G5 (ZB4 BW0G45 + ZB4 BK1243)	0.101
						Orange	XB4 BK125G5 (ZB4 BW0G55 + ZB4 BK1253)	0.101
					~ 230...240 (50/60 Hz)	Green	XB4 BK123M5 (ZB4 BW0M35 + ZB4 BK1233)	0.101
						Red	XB4 BK124M5 (ZB4 BW0M45 + ZB4 BK1243)	0.101
						Orange	XB4 BK125M5 (ZB4 BW0M55 + ZB4 BK1253)	0.101
	Standard handle	1	1	3-position Stay put ± 45°	~ 24 (50/60 Hz)	Green	XB4 BK133B5 (ZB4 BW0B35 + ZB4 BK1333)	0.101
						Red	XB4 BK134B5 (ZB4 BW0B45 + ZB4 BK1343)	0.101
						Orange	XB4 BK135B5 (ZB4 BW0B55 + ZB4 BK1353)	0.101
					~ 110...120 (50/60 Hz)	Green	XB4 BK133G5 (ZB4 BW0G35 + ZB4 BK1333)	0.101
						Red	XB4 BK134G5 (ZB4 BW0G45 + ZB4 BK1343)	0.101
						Orange	XB4 BK135G5 (ZB4 BW0G55 + ZB4 BK1353)	0.101
					~ 230...240 (50/60 Hz)	Green	XB4 BK133M5 (ZB4 BW0M35 + ZB4 BK1333)	0.101
						Red	XB4 BK134M5 (ZB4 BW0M45 + ZB4 BK1343)	0.101
						Orange	XB4 BK135M5 (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				
Heads only (2)							
	Standard handle	2-position 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 from right to 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
 ZB4 BK1343		3-position ± 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 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 from right to 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 from left to 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 V	Colour	Reference	Weight kg
Complete units				
■ With plain lens				
 Protected LED	~ 24 (50/60 Hz)	White	XB4 BVB1 (ZB4 BVB1 + ZB4 BV013)	0.080
		Green	XB4 BVB3 (ZB4 BVB3 + ZB4 BV033)	0.080
		Red	XB4 BVB4 (ZB4 BVB4 + ZB4 BV043)	0.080
		Orange	XB4 BVB5 (ZB4 BVB5 + ZB4 BV053)	0.080
		Blue	XB4 BVB6 (ZB4 BVB6 + ZB4 BV063)	0.080
	~ 110...120 (50/60 Hz)	White	XB4 BVG1 (ZB4 BVG1 + ZB4 BV013)	0.080
		Green	XB4 BVG3 (ZB4 BVG3 + ZB4 BV033)	0.080
		Red	XB4 BVG4 (ZB4 BVG4 + ZB4 BV043)	0.080
		Orange	XB4 BVG5 (ZB4 BVG5 + ZB4 BV053)	0.080
		Blue	XB4 BVG6 (ZB4 BVG6 + ZB4 BV063)	0.080
	~ 230...240 (50/60 Hz)	White	XB4 BVM1 (ZB4 BVM1 + ZB4 BV013)	0.080
		Green	XB4 BVM3 (ZB4 BVM3 + ZB4 BV033)	0.080
		Red	XB4 BVM4 (ZB4 BVM4 + ZB4 BV043)	0.080
		Orange	XB4 BVM5 (ZB4 BVM5 + ZB4 BV053)	0.080
		Blue	XB4 BVM6 (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				
	Integral LED only 	White	ZB4 BV013	0.026
		Green	ZB4 BV033	0.026
		Red	ZB4 BV043	0.026
		Orange	ZB4 BV053	0.026
		Blue	ZB4 BV063	0.026
		5 colours (2) (3)	ZB4 BV003	0.026
■ With plain lens, for insertion of legend (3)				
	Integral LED only 	White	ZB4 BV013E	0.026
		Green	ZB4 BV033E	0.026
		Red	ZB4 BV043E	0.026
		Orange	ZB4 BV053E	0.026
		Blue	ZB4 BV063E	0.026
■ With grooved lens (4)				
	Integral LED only 	White	ZB4 BV013S	0.026
		Green	ZB4 BV033S	0.026
		Red	ZB4 BV043S	0.026
		Orange	ZB4 BV053S	0.026
		Blue	ZB4 BV063S	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 V	Colour	Reference (1)	Weight kg
Complete units - With plain lens				
	~ 400 - 50 Hz (1)	White	XB4 BV5B1 	0.172
		Green	XB4 BV5B3 	0.172
		Red	XB4 BV5B4 	0.172
		Orange	XB4 BV5B5 	0.172
		Blue	XB4 BV5B6 	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 V	Colour	Reference	Weight kg
Complete units - With plain lens				
	■ Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W max (bulb not included)	White	XB4 BV61 (ZB4 BV6 + ZB4 BV01)	0.075
		Green	XB4 BV63 (ZB4 BV6 + ZB4 BV03)	0.075
		Red	XB4 BV64 (ZB4 BV6 + ZB4 BV04)	0.075
		Orange	XB4 BV65 (ZB4 BV6 + ZB4 BV05)	0.075

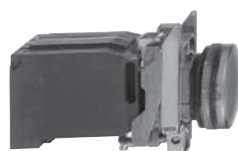
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XB4 BV64

	■ Via integral transformer, 1.2 VA, 6 V secondary, with BA 9s incandescent bulb (included)	~ 110...120 - 50/60 Hz	White	XB4 BV31 (ZB4 BV3 + ZB4 BV01)	0.152
			Green	XB4 BV33 (ZB4 BV3 + ZB4 BV03)	0.152
			Red	XB4 BV34 (ZB4 BV3 + ZB4 BV04)	0.152
			Orange	XB4 BV35 (ZB4 BV3 + ZB4 BV05)	0.152
			White	XB4 BV41 (ZB4 BV4 + ZB4 BV01)	0.152
	~ 230 - 50 Hz	~ 220...240 - 60 Hz	Green	XB4 BV43 (ZB4 BV4 + ZB4 BV03)	0.152
			Red	XB4 BV44 (ZB4 BV4 + ZB4 BV04)	0.152
			Orange	XB4 BV45 (ZB4 BV4 + ZB4 BV05)	0.152
			White	XB4 BV41 (ZB4 BV4 + ZB4 BV01)	0.152
			Green	XB4 BV43 (ZB4 BV4 + ZB4 BV03)	0.152
			Red	XB4 BV44 (ZB4 BV4 + ZB4 BV04)	0.152
			Orange	XB4 BV45 (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 kg
■ With plain lens				
	With BA 9s base fitting	White	ZB4 BV01	0.027
		Green	ZB4 BV03	0.027
		Red	ZB4 BV04	0.027
		Orange	ZB4 BV05	0.027
		Blue	ZB4 BV06	0.027
		Clear	ZB4 BV07	0.027

814213



ZB4 BV04

	■ With grooved lens (3)	With BA 9s base fitting	White	ZB4 BV01S	0.027
			Green	ZB4 BV03S	0.027
			Red	ZB4 BV04S	0.027
			Orange	ZB4 BV05S	0.027
			Blue	ZB4 BV06S	0.027
			Clear	ZB4 BV07S	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).

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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

Specific functions

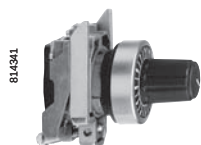
Pushbuttons for manual overload reset, hour counters, buzzers, fuse carrier



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

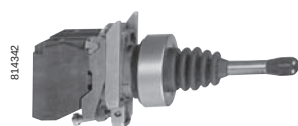


XB5 DT1S

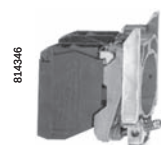
Fuse carrier

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
Complete products				
2-direction	1 notch 1 N/O contact per direction	Without	XD4 PA12	0.116
		With	XD4 PA22	0.116
4-direction	1 notch 1 N/O contact per direction	Without	XD4 PA14	0.133
		With	XD4 PA24	0.133

Sub-assemblies for joystick controllers

Sub-assemblies for joystick controllers			Reference	Weight 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 Red reverse	ZBG 2201	0.001
		White one side Yellow reverse	ZBG 2401	0.001
Legends 48 x 48 mm for engraving	4-direction	Black one side Red reverse	ZBG 4201	0.002
		White one side Yellow reverse	ZBG 4401	0.002

Wobblestick heads

Shape of head	For use with	Colour	Reference	Weight kg
	Omnidirectional, spring return	Black	ZB4 BB2	0.058
		Red	ZB4 BB4	0.058

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

Other versionsJoystick 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



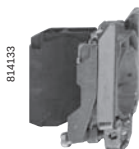
ZB4 BZ009



ZBE 101



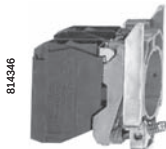
ZBE 203



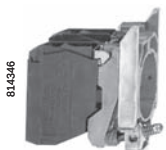
ZB4 BZ101



ZBE 201



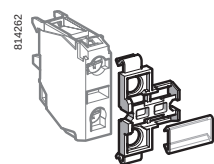
ZB4 BZ106



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	N/O	N/C	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	N/O	N/C	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) (IP5X, 50 µm dust)	1	—	5	ZBE 1016P	0.012
			—	1	5	ZBE 1026P	0.012
Staggered contacts	Single	Early make N/O	1	—	5	ZBE 201	0.011
			—	1	5	ZBE 202	0.011
		Late break N/C	—	1	5	ZBE 202	0.011
		Single with body/fixing collar	1	1	5	ZB4 BZ106	0.062
		Staggered 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) (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.

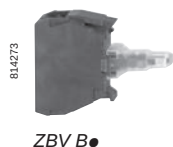
(3) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.

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

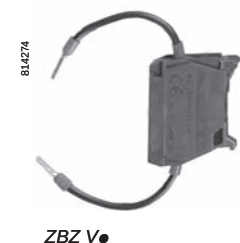
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To combine with heads, see page 24



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 (to combine with heads for integral LED) Protected LED	~ 12 (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 (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 (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 (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 (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 (to combine with heads for integral LED) Protected LED	~ 24 (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 (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 (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.

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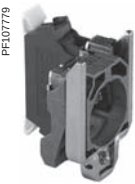
To combine with heads, see pages 20 to 42



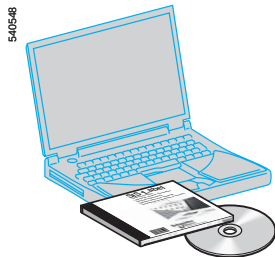
ZB4 BZ009



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	N/O	N/C	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 (to combine with heads for integral LED)	~ 12 (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 (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 (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 (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 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.

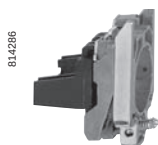
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To combine with heads, see pages 28 to 42



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
Body/fixing collar	Electrical block (contact or light)	10	ZB4 BZ009	0.006
Fixing collar/pillar	Printed circuit board support (fixing screw ZBZ 006 to be ordered separately)	10	ZB4 BZ079	0.003
Fixing screw for printed circuit board	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

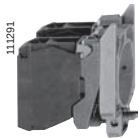
To combine with heads, see pages 20 to 42



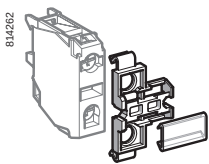
ZBE 1023



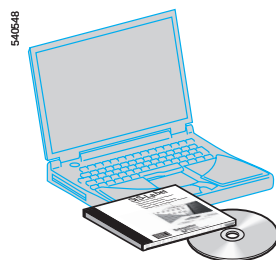
ZBE 2043



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

For legend design for English, French, German, Italian, Spanish	1	XBY 2U	0.100
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- (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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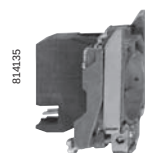
ZB4 BZ009



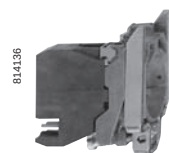
ZBE 1014



ZBE 1024



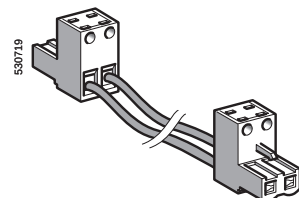
ZB4 BZ1014



ZB4 BZ1024



ZBV B•4



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**

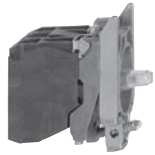
Description	Supply voltage (V)	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	~ 24 (50/60 Hz)	White	5	ZBV B14	0.016
		Green	5	ZBV B34	0.016
		Red	5	ZBV B44	0.016
		Orange	5	ZBV B54	0.016
		Blue	5	ZBV B64	0.016
	~ 110...120 (50/60 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 (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. mm²	Length mm	Sold in lots of	Unit reference	Weight kg
Cables with connectors 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 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 (1)

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

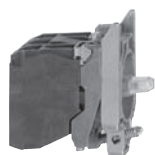
Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
	V	N/O	N/C			kg
Direct supply						
Integral LED 	~ 24 (50/60 Hz)	1	—	White	ZB4 BW0B11	0.064
				Green	ZB4 BW0B31	0.064
				Red	ZB4 BW0B41	0.064
				Orange	ZB4 BW0B51	0.064
				Blue	ZB4 BW0B61	0.064
		—	1	White	ZB4 BW0B12	0.064
				Green	ZB4 BW0B32	0.064
				Red	ZB4 BW0B42	0.064
				Orange	ZB4 BW0B52	0.064
				Blue	ZB4 BW0B62	0.064
	~ 110...120 (50/60 Hz)	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
		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



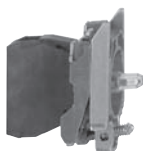
ZB4 BW0...3

Complete body/contact assemblies and light blocks (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)						
Integral LED Protected LED	~ 230...240 (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). 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 V	Colour of light source	Reference	Weight kg
Integral LED protected LED	~ 12 (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) (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 (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) (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) (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 V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	$\sim$ 24 (1) (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 V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	$\sim$ 24 (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 (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 (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



ZB4 BW06●



ZB4 BW05●

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	
	V	 N/O	 N/C			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 50/60 Hz	1	–	–	ZB4 BW031	0.141	
		1	1	–	ZB4 BW035	0.151	
	~ 230 50 Hz	1	–	–	ZB4 BW041	0.141	
		1	1	–	ZB4 BW045	0.151	
	~ 220...240 60 Hz	1	–	–	ZB4 BW051	0.141	
		1	1	–	ZB4 BW055	0.151	
	BA9s base fitting LED, included	~ 110...120 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 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 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 V	Sold in lots of	Unit reference	Weight kg
Direct supply for BA 9s base fitting bulb, 2.4 W max., 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 V	Colour of light source	Reference	Weight kg
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Direct supply

BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB4 BV6	0.052
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Supply via integral transformer (1.2 VA, 6 V secondary)

BA 9s base fitting incandescent bulb, 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, 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 ~ 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

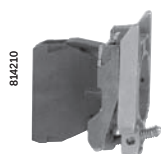
Complete light bodies with 3-terminal "test" function (fixing collar + light block)**For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)**Direct supply**

BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB4 BV156	0.062
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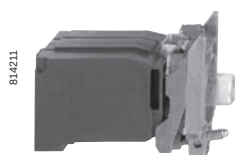
(1) Bulb to be ordered separately, see page 66.

Other versions

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



ZB4 BV6



ZB4 BV●



ZB4 BV156



ZBA •



ZBL •



ZBA •33

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 (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
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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, 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

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, illuminated, 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, illuminated, 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

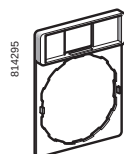


ZBV 01●3

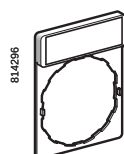
81.4337



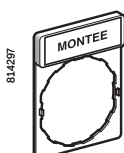
ZBV 01●



ZBZ 32



ZBY 101



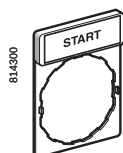
ZBY 2107

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends⁽¹⁾

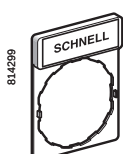
Description	Legend		Sold in lots of	Unit reference	Weight kg
	Colour	Marking			
Without legend	—	—	10	ZBZ 32	0.001
With blank legend (for engraving)	Black or red background	—	10	ZBY 2101	0.002
	White or yellow background	—	10	ZBY 4101	0.002
With 8 x 27 mm legend (with International marking)	Black or 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
With 8 x 27 mm legend (with French language marking)	Black or red background (2)	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
		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
		DEFAUT (black background)	1	ZBY 2134	0.002
		DEFAUT (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

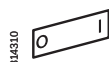


ZBY 2228

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

Description	Legend	Marking	Reference	Weight kg
With legend (with English language marking)	Black or red 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 (with German language marking)	Black or red 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 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 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

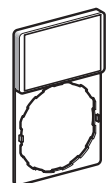
Description	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	—	10	ZBZ 34	0.003
With blank legend	Black or red background	10	ZBY 2H101	0.004
	White or yellow background	10	ZBY 4H101	0.004

81.4304



ZBZ 33

81.4305

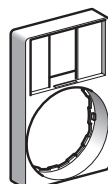


ZBY 6101

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

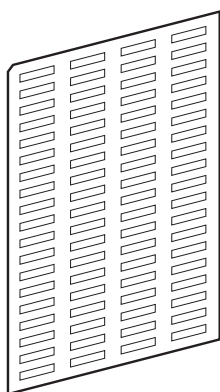


ZBY 6H101

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



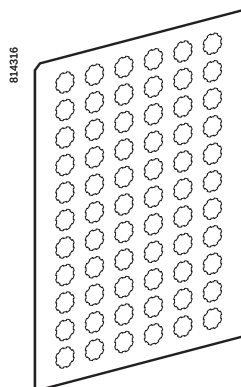
ZBY 4100

Legends for engraving

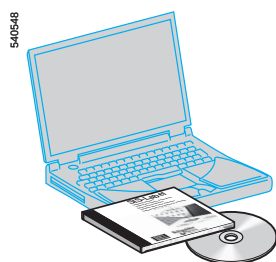
Description mm	For use with	Colour	Sold in lots of	Unit reference	Weight kg
8 x 27	30 x 40 mm legend holder	Black or red background	10	ZBY 0101	0.001
		White or yellow background	10	ZBY 0102	0.001
18 x 27	30 x 50 mm legend holder	Black or red background	10	ZBY 5101	0.001
		White or yellow background	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 8 x 27 mm	30 x 40 mm legend holder ZBZ 32 and ZBZ 34	10	ZBY 4100	0.043
Sheet of 40 legends 18 x 27 mm	30 x 50 mm legend holder ZBZ 33 and ZBZ 35	10	ZBY 5100	0.044



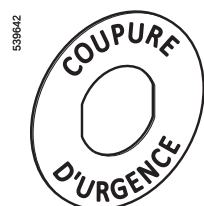
ZBY 1101



XBY 2U



ZBY 9130



ZBY 9160

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

“SIS Label” labelling software

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

Circular, yellow legends for mushroom head pushbuttons

Used for “Emergency stop” function

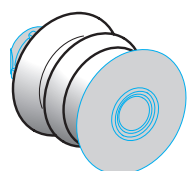
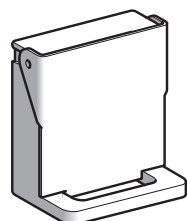
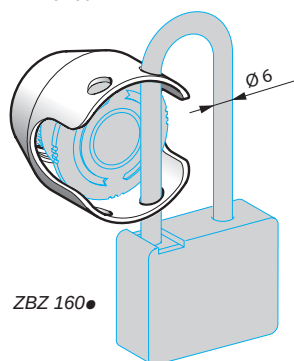
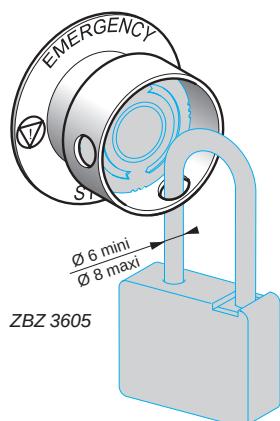
Diameter mm	Conforming to standards	Marking on yellow background	Reference	Weight kg
60	EN/IEC 60204-1 and EN/ISO 13850:2006	—	ZBY 9140	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		NOT-HALT	ZBY 9230	0.004
		PARADA DE EMERGENCIA	ZBY 9430	0.004
		ARRESTO DE EMERGENZA	ZBY 9630	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 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
Padlocking kit (3) (4) (padlockable)	Emergency stop (1) and Emergency switching off function (2), only with the following Ø 40 trigger action pushbuttons: XB4 BS844●, XB4 BS9445, ZB4 BS844, ZB4 BS944.	Yellow	ZBZ 3605	0.045

Description	Marking	Colour	Reference	Weight kg
Ø 60 mm legend for padlocking device ZBZ 3605 For Emergency stop function(1)	Without	Yellow	ZBY 9140T	0.004
	ARRET D'URGENCE	Yellow	ZBY 9130T	0.004
	EMERGENCY STOP	Yellow	ZBY 9330T	0.004
	NOT-HALT	Yellow	ZBY 9230T	0.004

Ø 60 mm legend for padlocking device ZBZ 3605 For Emergency switching off function (2)	Without	Yellow	ZBY 9101T	0.004
	COUPURE D'URGENCE	Yellow	ZBY 9160T	0.004
	EMERGENCY SWITCHING OFF	Yellow	ZBY 9360T	0.004
	NOT-AUS	Yellow	ZBY 9260T	0.004

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

Other accessories

Description	For use with	Colour	Reference	Weight kg
Plastic guard	Selector switches and key switches	Black	ZBZ 2102	0.005

Padlockable flaps	Pushbuttons	Black	ZB4 BZ62	0.076
		Red	ZB4 BZ64	0.076
		Yellow	ZB4 BZ65	0.076
		Blue	ZB4 BZ66	0.076

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

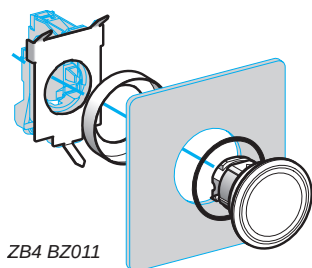
(3) Standard circular legends are not compatible with this product. Use special legends ZBY 9●●●T.

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

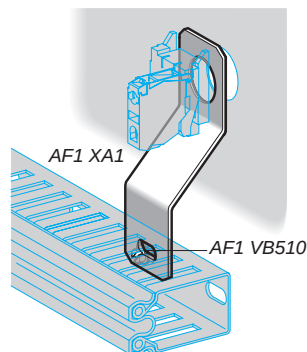
(5) Only when mounted on control stations. Use special legends ZBY 9●●●T.



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.



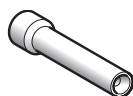
DL1 CJO●●●



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 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 kg
For latching mushroom head pushbuttons and selector switches			
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, one of which supplied booted (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 kg
Keyhole cover (rubber cover)	Protection of lock barrel when no key inserted in lock	ZBG P	0.005

Boot for standard handle

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

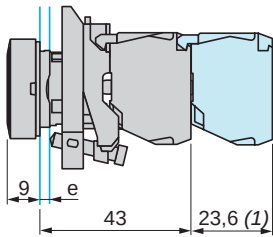
(1) Not compatible with products with key TEC10.



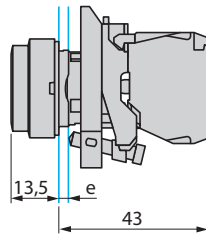
ZBG 455P

Pushbuttons, spring return

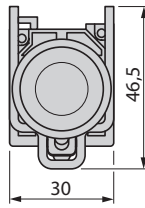
XB4 BA●●



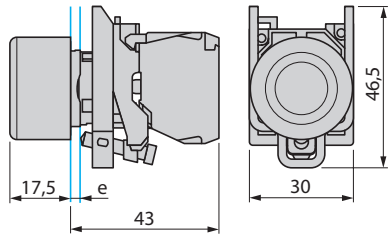
XB4 BL●●



Common face view



XB4 BP●●



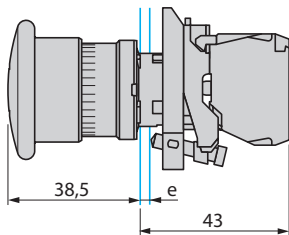
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Mushroom head pushbuttons, spring return

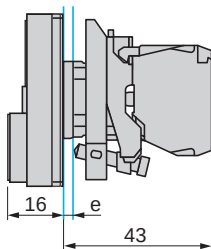
XB4 BC21



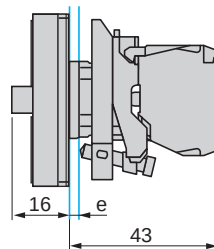
e: clamping thickness: 1 to 6 mm

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

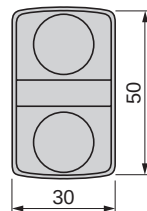
XB4 BL73415, XB4 BW73731●5



XB4 BA731327, XB4 BA711237



Common face view

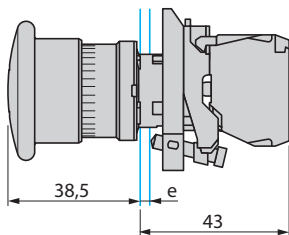


e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head pushbuttons, trigger action and mechanical latching

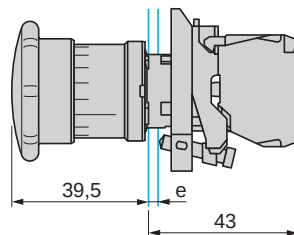
Push-pull

XB4 BT845



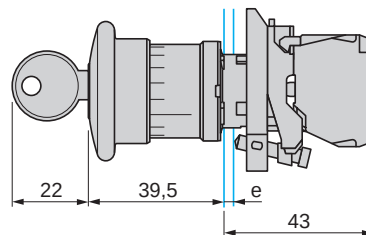
Turn to release

XB4 BS84441, BS8444, BS8445

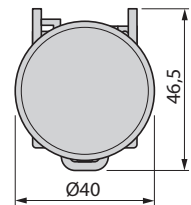


Key release

XB4 BS9445



Common face view



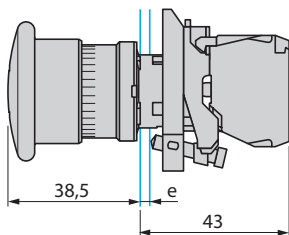
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Emergency switching off mushroom head pushbuttons, mechanical latching

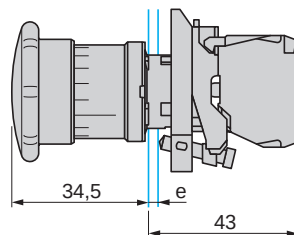
Push-pull

XB4 BT42



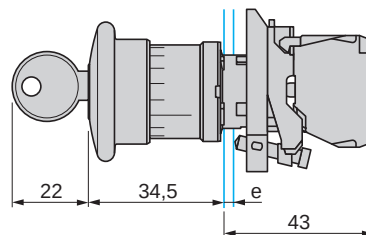
Turn to release

XB4BS542

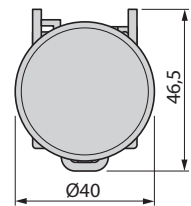


Key release

XB4 BS142



Common face view



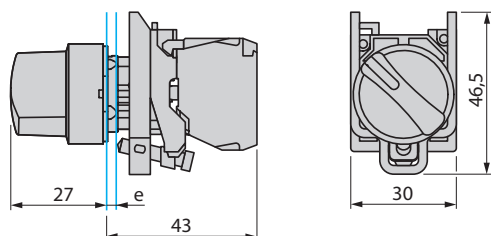
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Selector switches

Standard handle operator

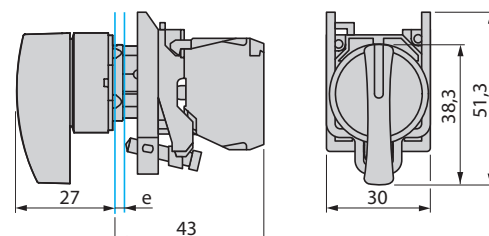
XB4 BD●●



e: clamping thickness: 1 to 6 mm

Long handle operator

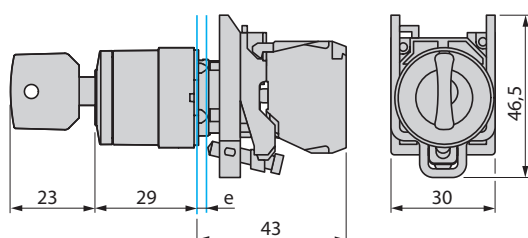
XB4 BJ●●



e: clamping thickness: 1 to 6 mm

Key switches

XB4 BG●●

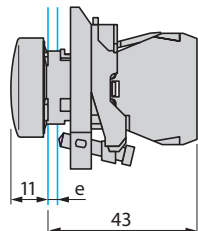


e: clamping thickness: 1 to 6 mm

Pilot lights

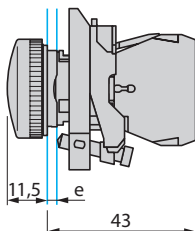
Integral LED

XB4 BVB●, BVG●, BVM●



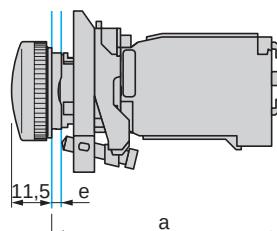
Direct supply

XB4 BV6●

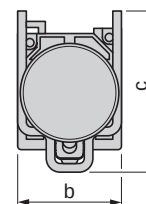


Via integral transformer

XB4 BV3●, BV4●



Common face view



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

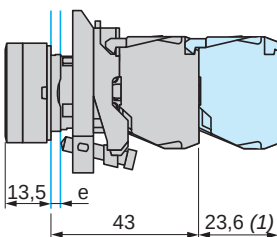
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Illuminated pushbuttons, spring return

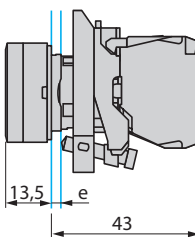
Integral LED

XB4 BWB3●●5



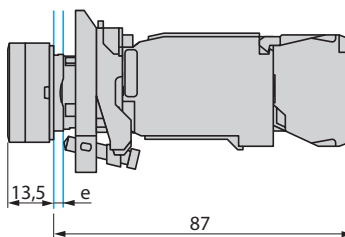
Direct supply

XB4 BW3●65

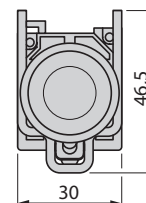


Via integral transformer

XB4 BW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

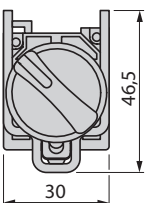
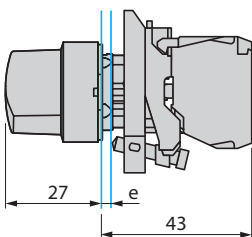
(1) Additional row of contacts or double contact

e: clamping thickness: 1 to 6 mm

Illuminated selector switches

Integral LED

XB4 BK12●●5

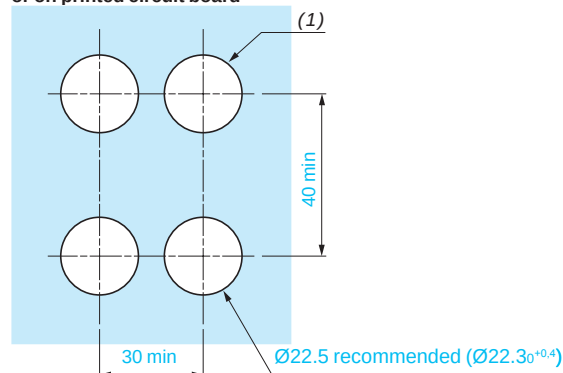


e: clamping thickness: 1 to 6 mm

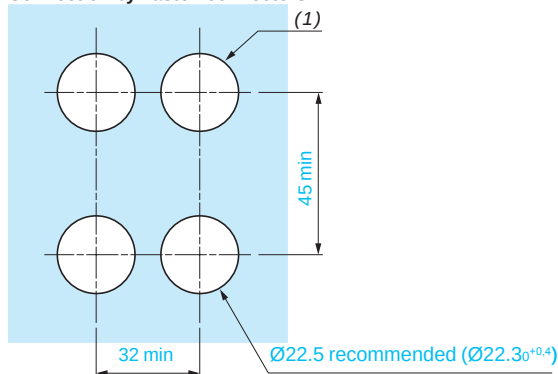
e: clamping thickness: 1 to 6 mm

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



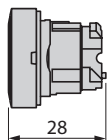
Connection by Faston connectors



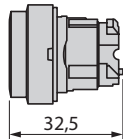
(1) Diameter on finished panel or support.

Heads for spring return pushbuttons

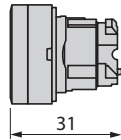
ZB4 BA●, ZB4
BA●●ZB4 BA●8



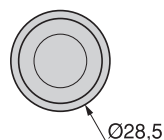
ZB4 BL●, ZB4 BL●●



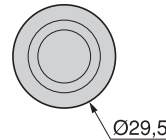
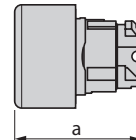
ZB4 BA●4, ZB4 BA●6



Common face view



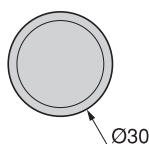
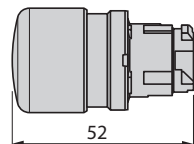
ZB4 BP●, ZB4 BP●S, ZB4 BP●83, ZB4 BP●



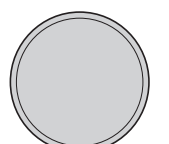
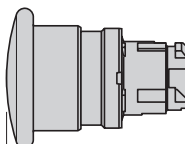
ZB4	a
BP●	36.5
BP●S	33
BP●83	32
BP●	35

Mushroom heads for spring return pushbuttons

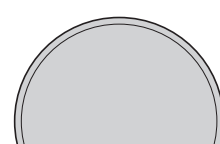
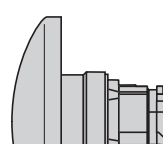
ZB4 BC●4



ZB4 BC●, ZB4 BR●



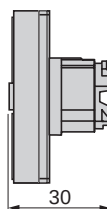
ZB4 BR●16



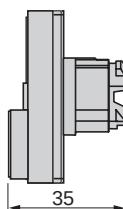
ZB4	Ø
BC●	40
BR●	60

Heads for double-headed, spring return pushbuttons

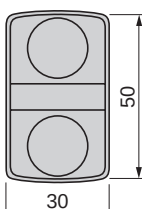
ZB4 BA712●,
ZB4 BA734●,
ZB4 BA79



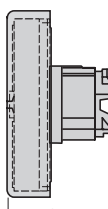
ZB4 BL734●



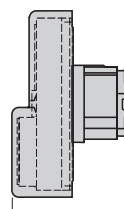
Common face view



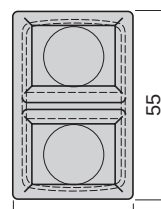
ZB4 BA712●,
ZB4 BA734●,
ZB4 BA79
+ boot ZBA708



ZB4 BL734●
+ boot ZBA710

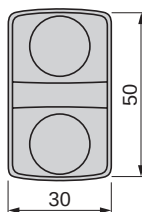
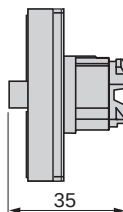


Common face view

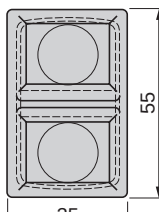
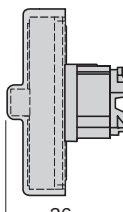


Heads for triple-headed, spring return pushbuttons

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

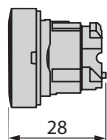


ZB4 BA7313●,
ZB4 BA711●●,
ZB4 BA72124,
ZB4 BA791
+ boot ZBA709

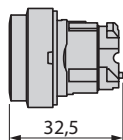


Heads for "push-push to release" pushbuttons

ZB4 BH0●



ZB4 BH●



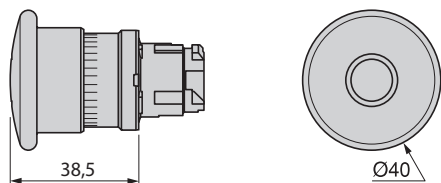
Common face view



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

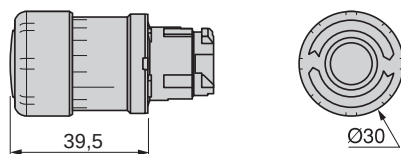
"Push-pull"

ZB4 BT84

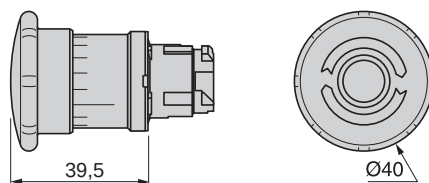


Turn to release

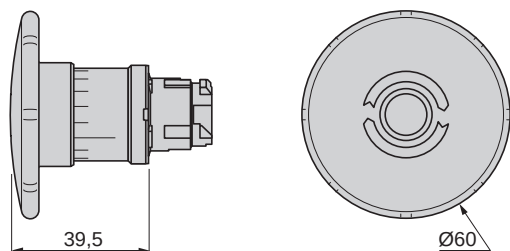
ZB4 BS834



ZB4 BS844

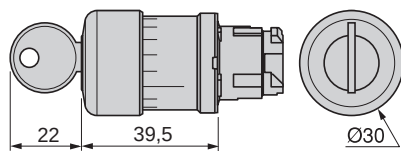


ZB4 BS864

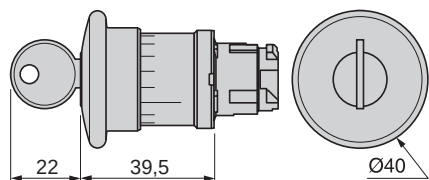


Key release

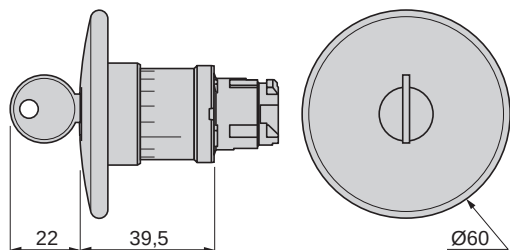
ZB4 BS934



ZB4 BS944



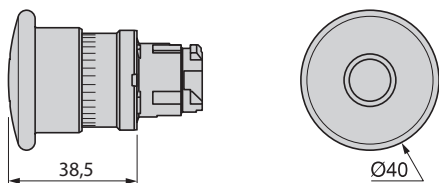
ZB4 BS964



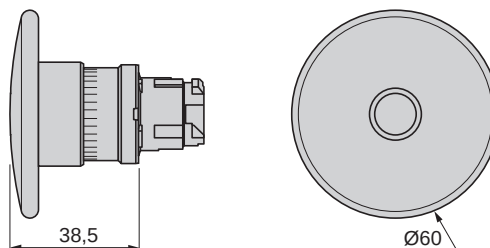
Mushroom heads for Emergency switching off, mechanical latching pushbuttons

Push-pull

ZB4 BT4

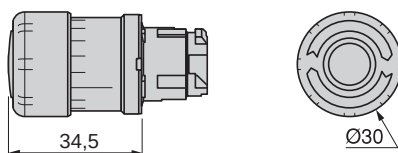


ZB4 BX4

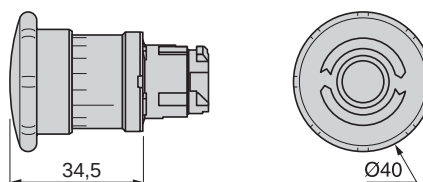


Turn to release

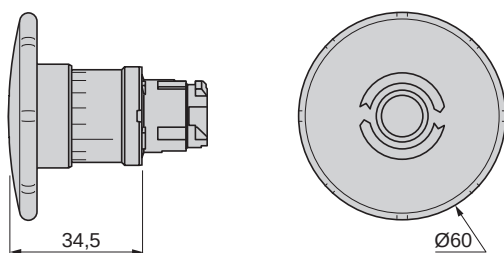
ZB4 BS44



ZB4 BS54

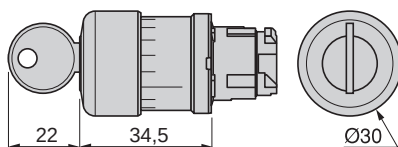


ZB4 BS64

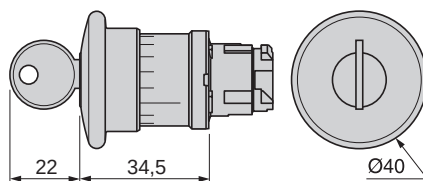


Key release

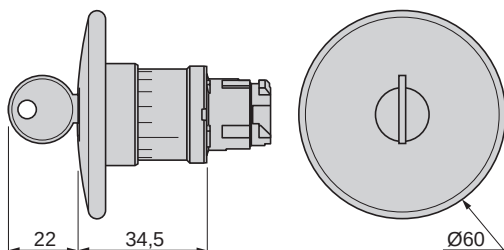
ZB4 BS74



ZB4 BS14



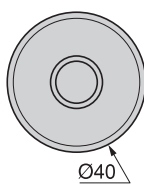
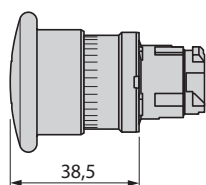
ZB4 BS24



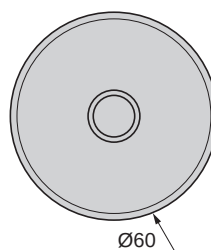
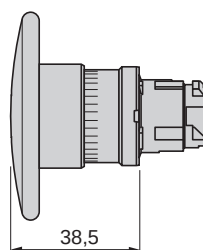
Mushroom heads for latching pushbuttons (1)

Push-pull

ZB4 BT2

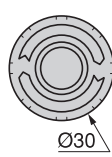
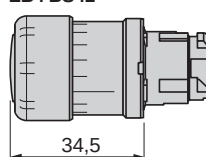


ZB4 BX2

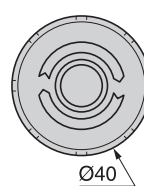
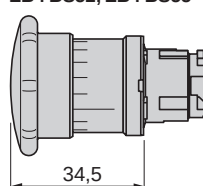


Turn to release

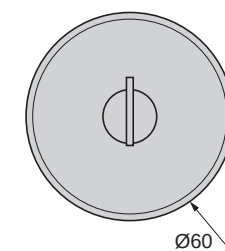
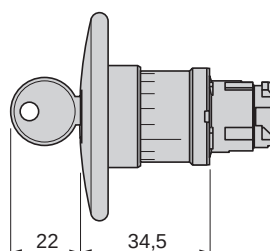
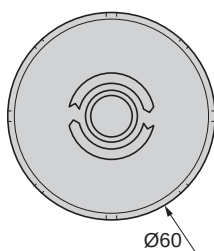
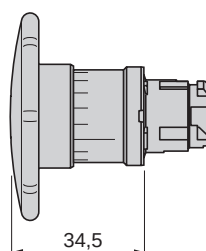
ZB4 BS42



ZB4 BS52, ZB4 BS55

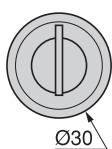
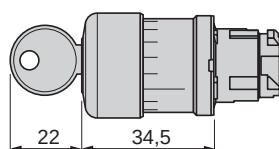


ZB4 BS62

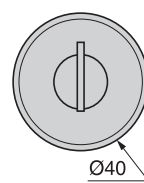
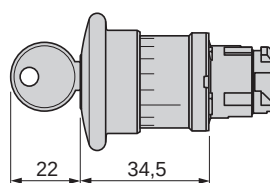


Key release

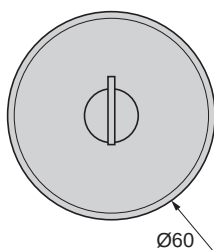
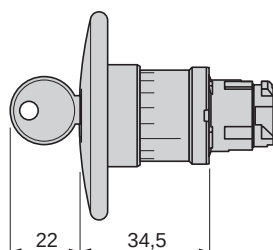
ZB4 BS72



ZB4 BS12



ZB4 BS22

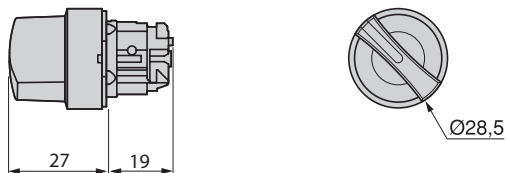


(1) Red mushroom heads for Emergency stop and Emergency switching off, latching pushbuttons: see pages 72 and 73.

Heads for selector switches

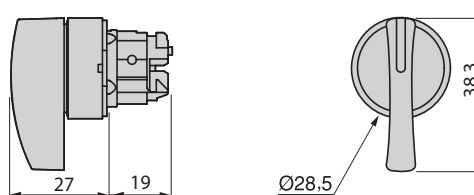
Standard handle operator

ZB4 BD●, ZB4 BD0●M



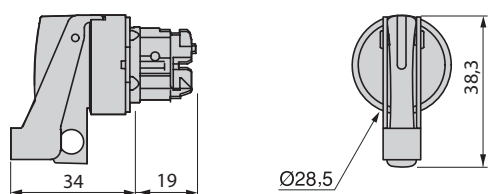
Long handle operator

ZB4 BJ●, ZB4 BD0●M



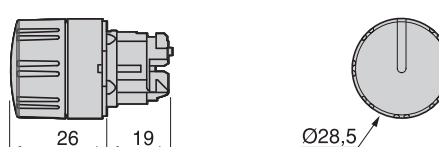
Padlockable long handle operator (6.35 mm shank max.)

ZB4 BJ●9●



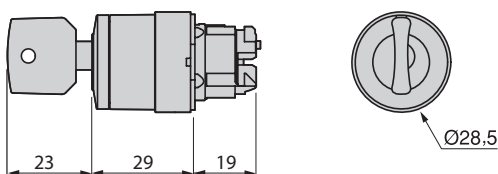
Black knurled knob

ZB4 BD●9



Key switches

ZB4 BG●, ZB4 BG0●, ZB4 BG0●M



Heads for toggle switches

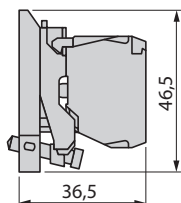
ZB4 BD●8



Bodies for pushbuttons and switches

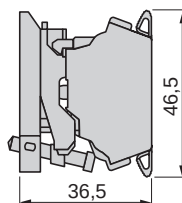
Screw clamp terminal connections

ZB4 BZ10●, ZB4 BZ141



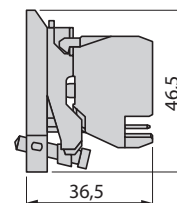
Spring terminal connections

ZB4 BZ10●5



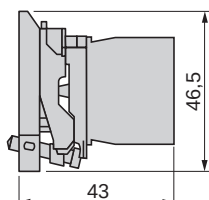
Plug-in connector

ZB4 BZ10●4, ZB4 BZ1414



High power switching with screw clamp terminal connections

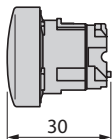
ZBE 50● block + ZB4 BZ009 body



Heads for pilot lights, with light source

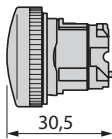
Integral LED

ZB4 BV0●3, ZB4 BV0●3S

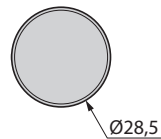


Incandescent, neon or LED

ZB4 BV0●, ZB4 BV0●S



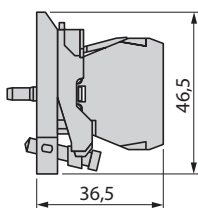
Common face view



Bodies for pilot lights, screw clamp terminal connections

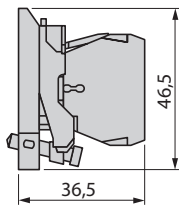
Integral LED

ZB4 BV●●



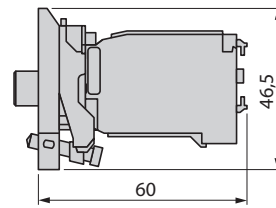
Direct supply, for BA 9s bulb

ZB4 BV6



Via integral transformer, for BA 9s bulb

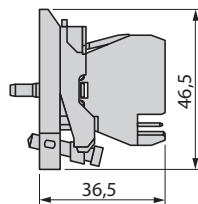
ZB4 BV●, ZB4 BV●D●



Bodies for pilot lights, plug-in connector

Integral LED

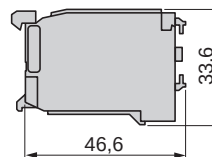
ZB4 BV●●4



Transformer blocks

For 24 V light blocks with integral LED

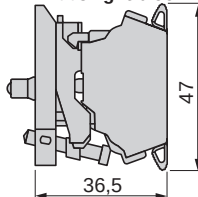
ZBV 5B, ZBV 8B, ZBV 9B



Light blocks + body for pilot lights, spring terminal connections

Integral LED

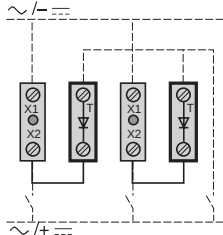
ZBV ●●5 light block + ZB4 BZ009 body



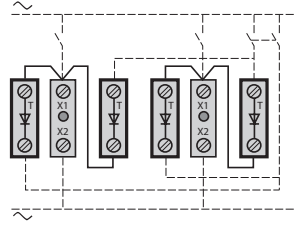
Connections

Blocks for "test light" function

ZBZ G156



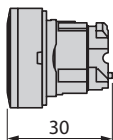
ZBZ M156



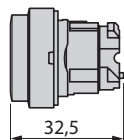
Heads for spring return illuminated pushbuttons, for light source types

LED

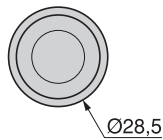
ZB4 BW3●3, ZB4 BW3●3S
ZB4 BW5●3, ZB4 BA●8



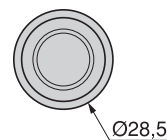
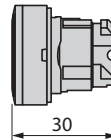
ZB4 BW1●3, ZB4 BL●8



Common face view

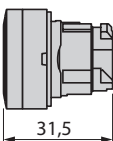


ZB4 BW9●3

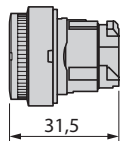


Incandescent or neon

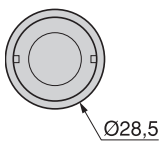
ZB4 BW3●3, ZB4 BW3●S



ZB4 BW1●

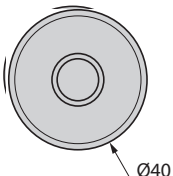
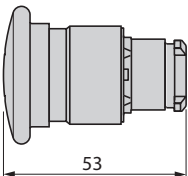


Common face view



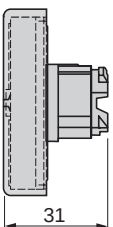
Heads for Ø 40 mm mushroom head illuminated pushbuttons with LED

ZB4 BW4●3, ZB4 BW6●3

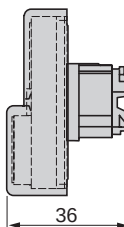


Heads for double-headed pushbuttons + pilot light

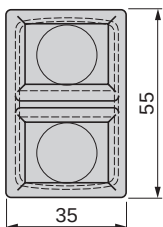
ZB4 BW7A374●,
ZB4 BW7A17●●,
ZB4 BW7A9



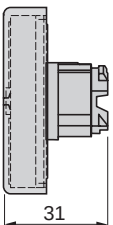
ZB4 BW7L374●



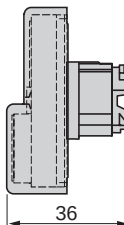
Common face view



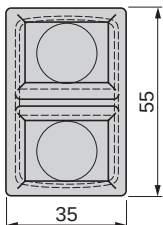
ZB4 BW7A374●,
ZB4 BW7A17●●,
ZB4 BW7A9
+ boot ZBA 708



ZB4 BW7L374●
+ boot ZBA 710

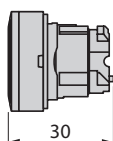


Common face view

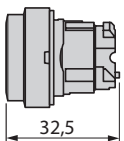


Heads for illuminated "push-push to release" pushbuttons

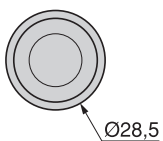
ZB4 BH0●3



ZB4 BH●3

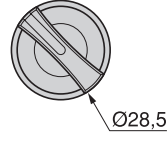
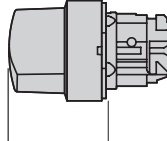


Common face view



Heads for illuminated selector switches with standard handle

ZB4 BK1●●●3

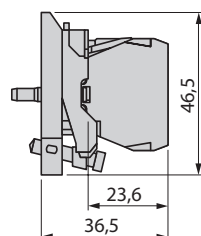


Bodies for illuminated pushbuttons and switches

Screw clamp terminal connections

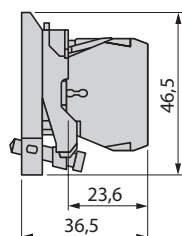
Integral LED

ZB4 BW0●●●



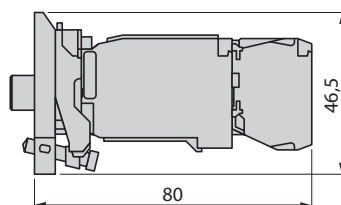
Direct supply, BA 9s bulb

ZB4 BW06●



Via integral transformer, BA 9s bulb

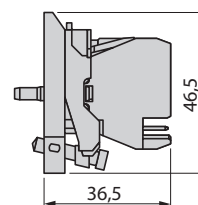
ZB4 BW0●●, BW0●D●●



Plug-in connector

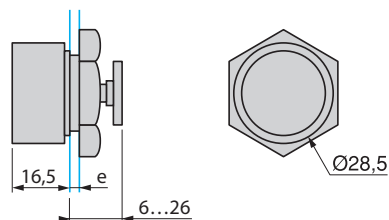
Integral LED

ZB4 BW0●●●4

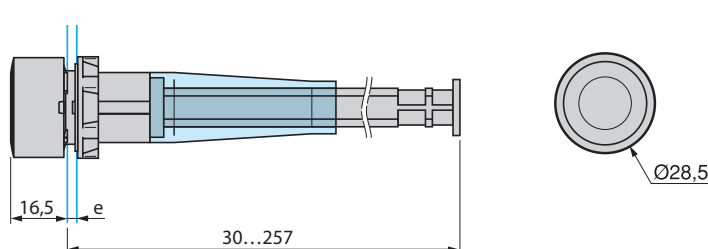


Manual overload reset buttons

XB4 BA8●●



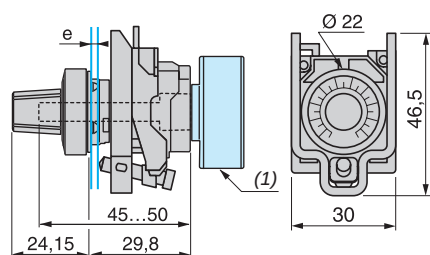
XB4 BA9●●



e: panel thickness 1 to 6 mm

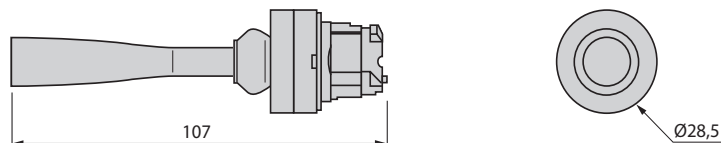
Heads + mounting base for potentiometer

ZB4 BD9●2



Wobblestick head

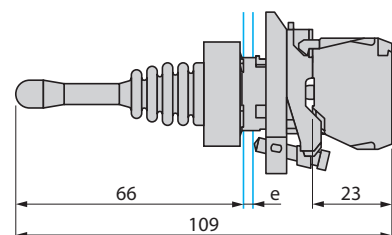
ZB4 BB●



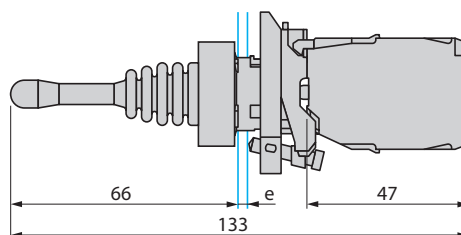
(1) Potentiometer not included.

Joystick controllers

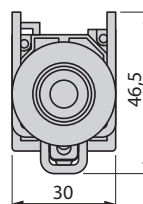
XD4 PA●2



XD4 PA●4



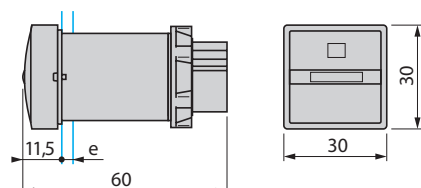
Common face view



e: panel thickness 1 to 6 mm

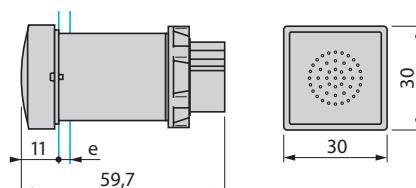
Hour counters

XB5 DS●



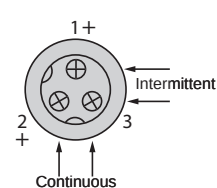
Annunciators

XB5 KS●



Cabling

XB5 KS●



e: panel thickness 1 to 6 mm

Control and signalling units Ø 22

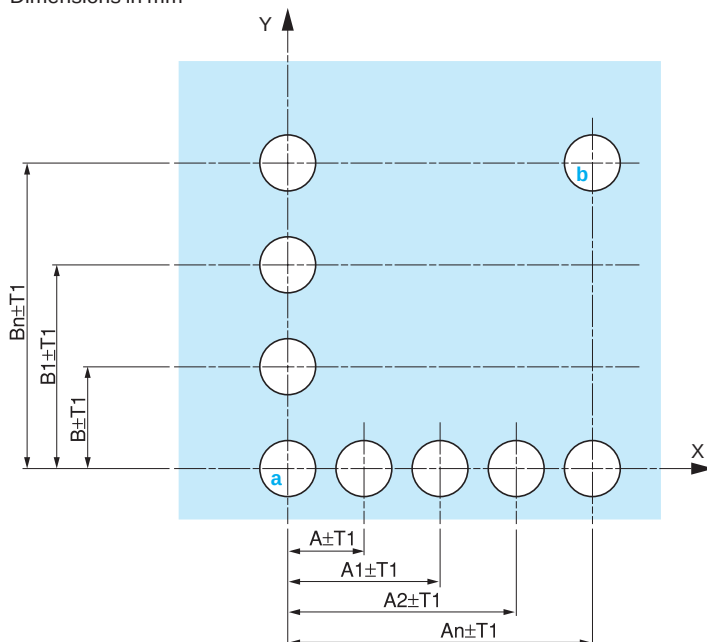
Harmony® XB4 metal

Pushbuttons, switches and pilot lights
for printed circuit board connection

Pushbuttons, switches and pilot lights for printed circuit board connection

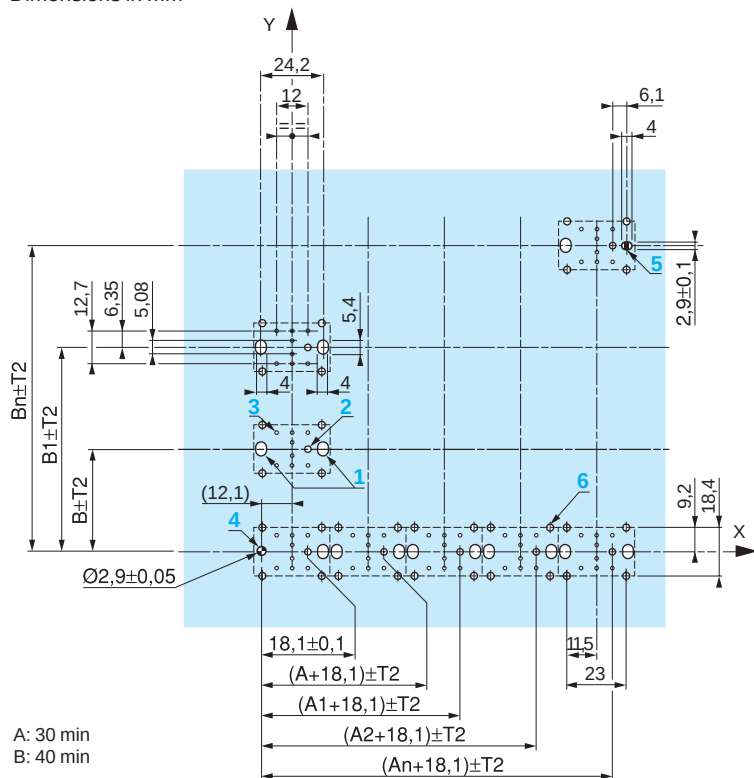
Panel cut-outs (viewed from installer's side)

Dimensions in mm



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

Dimensions in mm



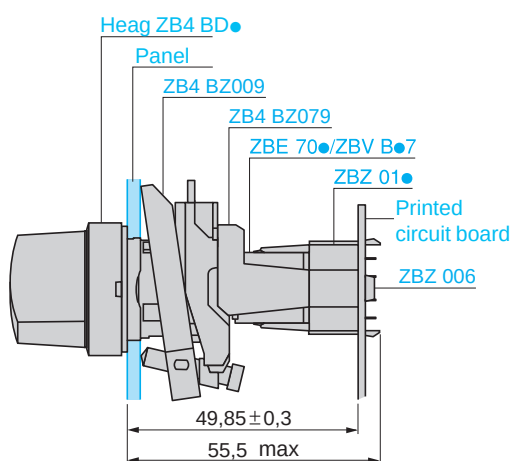
General tolerances of the panel and printed circuit board

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 mm ± 0.1 mm.
- Orientation of body/fixing collar ZB4 BZ009: ± 2° 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 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●.

Control and signalling units Ø 22

Harmony® XB5, plastic

Pushbuttons, switches and pilot lights

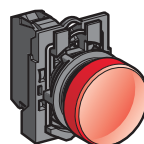
Description

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

Complete units, XB5 A

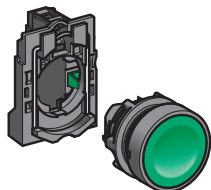


Pushbuttons and switches

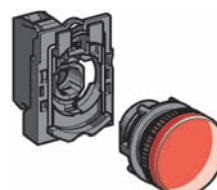


Pilot lights

Sub-assemblies, ZB5 A

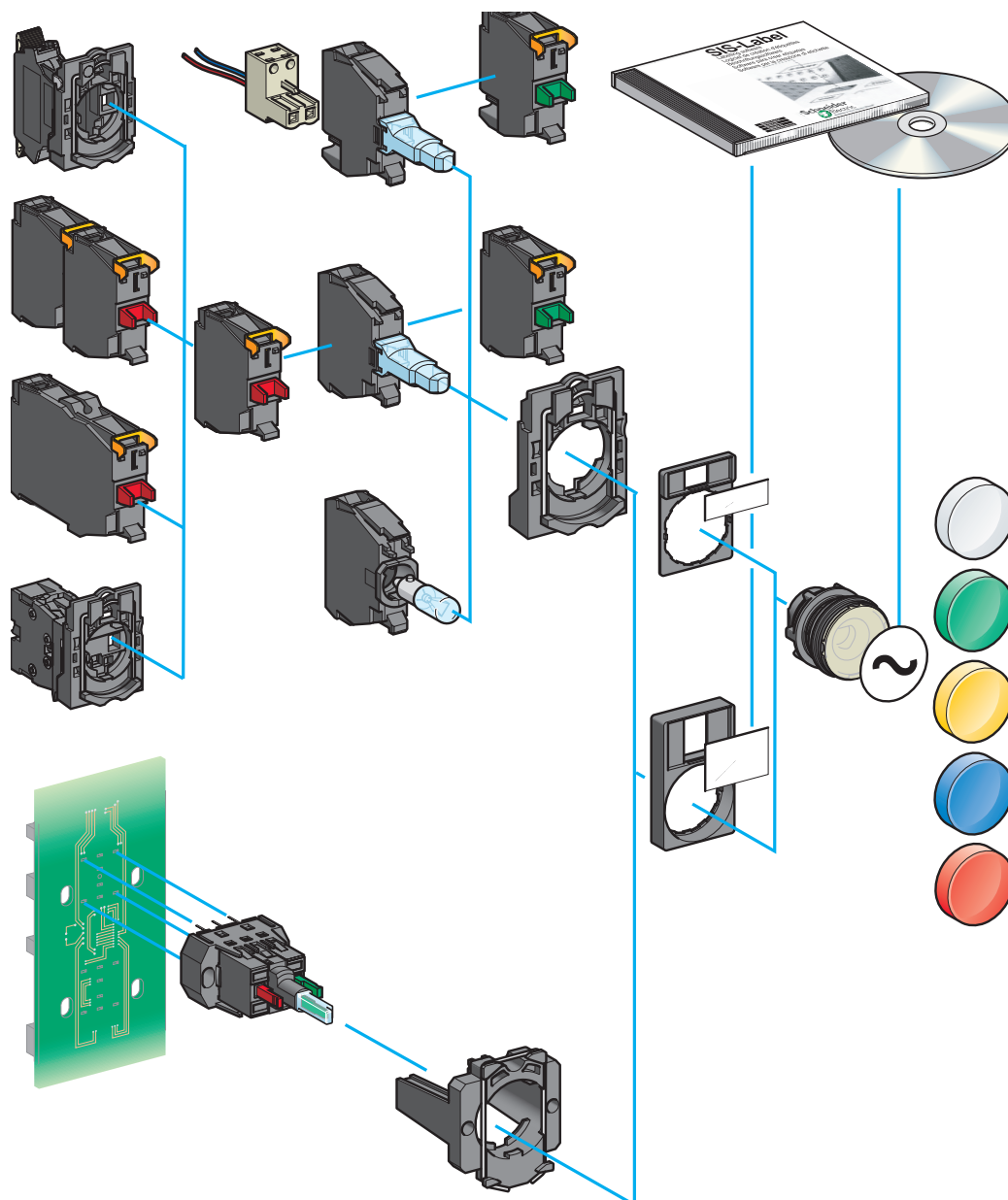


Pushbuttons and switches:
body + head sub-assemblies



Pilot lights:
body + head sub-assemblies

ZB component parts and accessories



Schematic library

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

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

Contact functions (selector switches)

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

Signalling functions

Pilot light with BA 9s incandescent bulb	LED pilot light	Pilot light with integral transformer 230 V primary, 6 V secondary BA 9s bulb, incandescent or LED

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

Illuminated pushbutton, BA 9s incandescent bulb N/O+N/C contacts	Illuminated pushbutton LED - N/O+ N/C contacts	Illuminated pushbutton with integral transformer 230 V ~ 50/60 Hz primary, 6 V secondary 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 N/O + N/C contacts

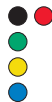
Joystick controller functions

2 direction	4 direction
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



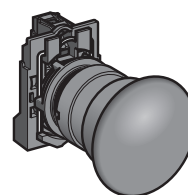
Projecting push, with marking
XB5 AL4322
see page 98



Booted flush push
XB5 AP1/AP42
see page 97



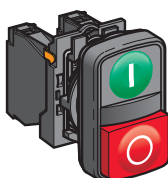
Projecting push, unmarked
XB5 AL42
see page 96



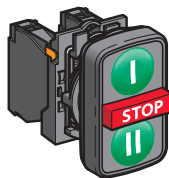
Ø 40

Mushroom head
XB5 AC21
see page 104

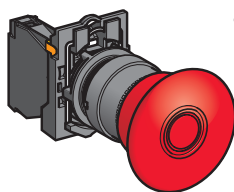
Multiple-headed pushbuttons, spring return



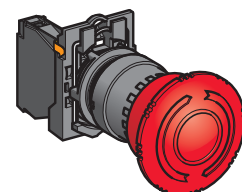
Double-headed
XB5 AL73415
see page 102



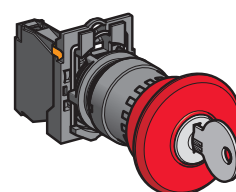
Triple-headed
XB5 AA731327/XB5 AA711237
see page 103

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

Ø 40



Ø 40



Ø 40

Emergency stop trigger
action and mechanical
latching

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

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

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

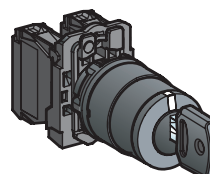
Key release (IEC 60364-5-53)
XB5 AS142
see page 107

Selector switches
and key switches

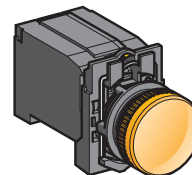
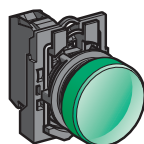
Standard handle, black
XB5 AD
see page 110



Long handle, black
XB5 AJ
see page 111



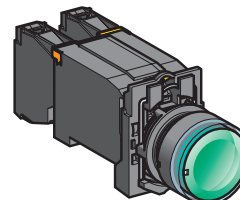
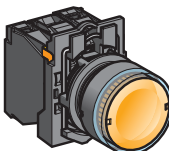
Key switch
XB5 AG
see page 112

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

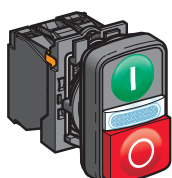
Via integral transformer

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

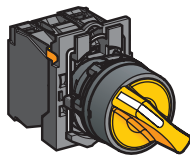
Integral LED

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

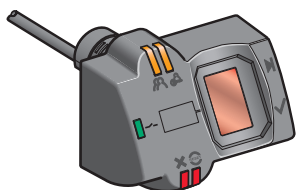
Via integral transformer

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

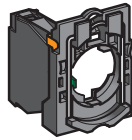
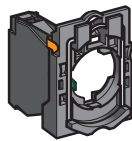
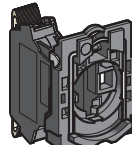
XB5 AK1●●3
see page 115**Fingerprint reader biometric
switches**

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, unmarkedScrew clamp terminals
ZB5 AZ10●/AZ141
page 120Faston
ZB5 AZ10●3
page 124For pushbuttons,
spring return, with markingSpring clamp
terminals
ZBE 10●5
ZB5 AZ10●5
page 122For multiple-headed
pushbuttons, spring returnFor "push-push to release"
pushbuttonsFor "push-turn to release"
pushbuttons

Contact functions

Body
sub-assemblies

Head sub-assemblies

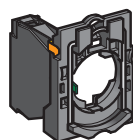
Flush push without
cap/with set of 6 caps
ZB5 AA0/AA9
page 94Flush push
ZB5 AA●
page 94Flush push for
insertion of legend
ZB5 AA●8
page 94Flush push, cap
mounted/not mounted
ZB5 CA0/CA●
page 94Projecting
ZB5 AL●
page 96Recessed push
ZB5 AA●
page 95Booted flush push,
for insertion of legend
ZB5 AP●●/AP●S
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



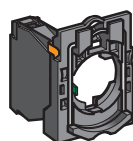
Non illuminated units for user assembly (continued)

For mushroom head
pushbuttons



Screw clamp terminals
ZB5 AZ10●/AZ141
page 120

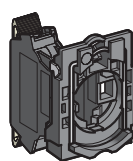
For Emergency Stop or
Emergency switching off
mushroom head pushbuttons



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)

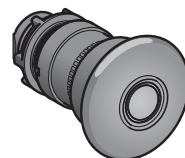
Body sub-assemblies

Head sub-assemblies



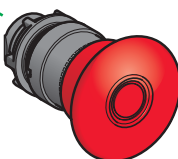
Ø 30
Ø 40
Ø 60

Spring
ZB5 AC●/AR●
see page 104



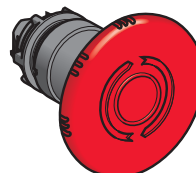
Ø 30
Ø 40
Ø 60

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

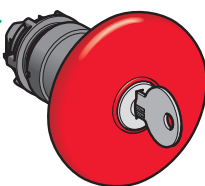


Ø 30
Ø 40
Ø 60

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

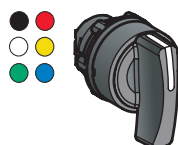
Turn to release (IEC 60364-5-53)
ZB5 AS44/AS54/AS64
see page 107



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

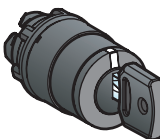


Standard handle (1)
ZB5 AD●
page 110

Long black handle (1)
ZB5 AJ●
page 111

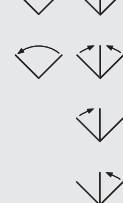


Knurled black knob (1)
ZB5 AD●9
page 113

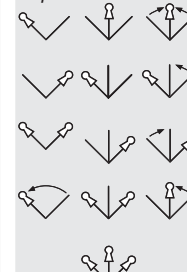


Key switch (2)
ZB5 AG●●
page 113

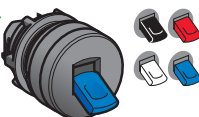
(1) Switch handle
and knob
positions



(2) Key switch
positions
Key withdrawal
positions



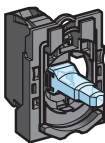
(3) Lever positions



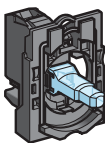
2-position lever (3)
ZB5 AD●8
see page 113

Pilot lights
for user assembly

Signalling functions

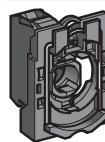
Body sub-assemblies
with integral LED

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

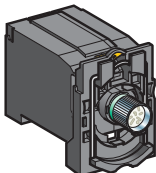


Connection: plug-in connector
Please consult your Regional
Sales Office

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

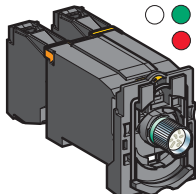
Illuminated
pushbuttons
for user assembly

Combined functions (contact + signalling)

Body sub-assemblies for BA 9s bulb



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

Head sub-assemblies

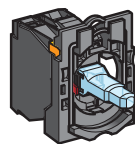
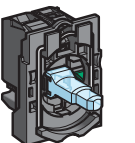
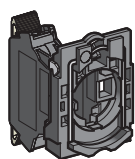


Flush
ZB5 AW3●/AW3●S, see page 100



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

For illuminated pushbuttons,
spring return

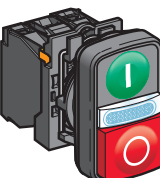
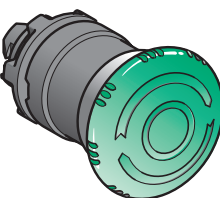
Illuminated
pushbuttons
for user assemblyFor illuminated
pushbuttons, spring returnBody sub-assemblies
with integral LEDConnection: screw clamp
terminals
ZB5 AW0B/AW0G/AW0M
see page 126Connection: plug-in
connectorPlease consult your
Regional Sales OfficeFor double-headed
pushbuttons, spring return,
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)

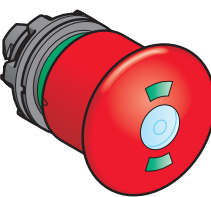
Head sub-assemblies

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 lightZB5 AW7A17●●, ZB5 AW7A374●, ZB5 AW7A9, ZB5 AW7L374●, see page 102
ZB5 AA7313●, ZB5 AA71●●●, ZB5 AA72124, ZB5 AA791, see page 103

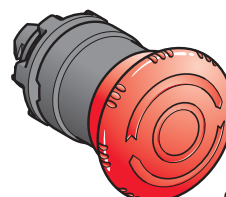
Ø 40

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 - 25... + 55: incandescent bulb version
Electric shock protection	Conforming to IEC 61140		Class II
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switches and multiple-headed pushbuttons) 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 ⁵ (70 bar); distance: 0.1 m Temperature: 55 °C
Mechanical shock protection	Conforming to IEC 50102		Non illuminated heads: IK 03 Illuminated heads: IK 05 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) IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons, see page 106) EN 81-1 (Emergency stop illuminated, trigger action and mechanical latching pushbuttons with mechanical state indicator, see page 106) 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 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD5 PA/ZD5 PA: A600; R300 Special contact blocks: □ ZBE 201: A300; Q300 □ ZBE 202: A600; Q600 Single contacts for high power switching: □ ZBE 501 and ZBE 502: A300; P300
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 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 Changing N/O state: 2.6 Total travel: 4.3
Operating force	Pushbutton	N	Changing N/C state: 3.5 Changing N/O state: 3.8
	Additional contact only (extra to change state)	N	Single N/C contact: 2 Single N/O contact: 2.3
		N	Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6
	Emergency stop or Emergency switching off with N/C + N/O	N	Standard push-pull: 45 Trigger action push-pull: 50
		N	Standard turn to release and key release: 40 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 (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 (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 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: □ half sine wave acceleration 11 ms: 50 gn □ half sine wave acceleration 18 ms: 30 gn
				Spring return mushroom head pushbutton: □ 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: Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screws (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (maxi 1.2 N.m) Contact blocks for high power switching: Min: 1 x 0.5 without cable end 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 Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)			Low power switching contact blocks with screw clamp terminals 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) Blocks for plug-in connector 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 Blocks for plug-in connector: 10 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: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston connectors Standard blocks for printed circuit board connection Contact blocks for high-power switching: 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 Blocks for plug-in connector Standard blocks for printed circuit board connection 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

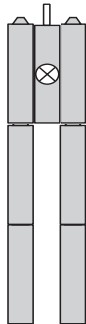
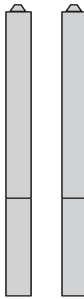
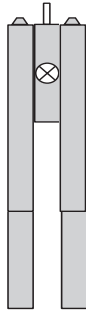
Standard blocks:
- at 17 V and 5 mA, $\lambda < 10^{-8}$
- at 5 V and 1 mA, $\lambda < 10^{-6}$
Special blocks with gold flashed contacts, for low power switching:
- at 5 V and 1 mA, $\lambda < 10^{-7}$

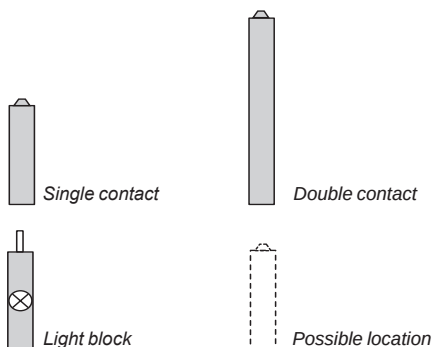
In dusty environment

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 Half sine wave acceleration 18 ms: 30 gn
Electrical characteristics			
Cabling capacity	Conforming to EN/IEC 60947-1	mm ²	Screw clamp and spring terminals Min: 1 x 0.2 without cable end (1 x 0.34 for linking) 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): U _i = 250 degree of pollution 3 Pilot light blocks with integral LED: U _i = 250 degree of pollution 3 Pilot light blocks with transformer: U _i = 600 degree of pollution 3
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	kV	Direct supply pilot light blocks (BA 9s bulb): U _{imp} = 4 Pilot light blocks with integral LED: U _{imp} = 4 Pilot light blocks with transformer: U _{imp} = 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 ~ 24 V: 19.2 to 15 ~; 21.6 to 13.8 ~ 24 to 120 V: 19.2 to 132 ~; 21.6 to 132 ~ 48 to 120 V: 40 to 132 ~ 230/240 V: 195 to 264 ~
Current consumption	Applicable to all colours	mA	Blocks with ~ 12 V supply: 18 Blocks with ~ 24 V supply: 18 Blocks with ~ 120 V supply: 14 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 6: on contact, on metal parts
Direct parallel connection across inductive load 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 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 XB5 DSG: 8 XB5 DSM: 8
	Annunciator	mA	5

Maximum recommended configurations guaranteeing achievement of catalogue characteristics

Unit type (complete units XB5 B, heads ZB5 B)	Pushbuttons, spring return XB5 AA●, ZB5 AA●, (except ZB5 AA●8) XB5 AC●, ZB5 AC●, XB5 AL●, ZB5 AL●, XB5 AP●, ZB5 AP●, ZB5 AR● Triple-headed pushbuttons XB5 AA731327, XB5 AA711137, ZB5 AA7313●, ZB5 AA7111●, ZB5 AA72124, ZB5 AA791	Double-headed pushbuttons XB5 AL73415, ZB5 AA712●, ZB5 A●734●, ZB5 AA79	Illuminated pushbuttons, spring return XB5 AW●, ZB5 AW●, ZB5 AA●8 Double-headed pushbuttons + pilot light block 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 Double contacts + Single contacts Light block	9 3 + 3 –	6 2 + 2 –	6 2 + 2 1

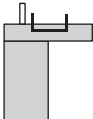
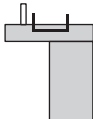
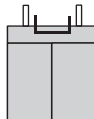
Possible configurations for high power switching contacts ^{(1) (2)}

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 1 N/O + N/O 1 N/C + N/C

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

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

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	XB5 AA11 (ZB5 AZ101 + ZB5 AA1)	0.037
				Black	XB5 AA21 (ZB5 AZ101 + ZB5 AA2)	0.037
				Green	XB5 AA31 (ZB5 AZ101 + ZB5 AA3)	0.037
				Yellow	XB5 AA51 (ZB5 AZ101 + ZB5 AA5)	0.037
				Blue	XB5 AA61 (ZB5 AZ101 + ZB5 AA6)	0.037
		—	1	Red	XB5 AA42 (ZB5 AZ102 + ZB5 AA4)	0.037

Heads only, circular

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

Heads only, square

	Without cap (2)	—	ZB5 CA0	0.022
	Flush	White	ZB5 CA1	0.019
		Black	ZB5 CA2	0.019
		Green	ZB5 CA3	0.019
		Red	ZB5 CA4	0.019
		Yellow	ZB5 CA5	0.019
		Blue	ZB5 CA6	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.



XB5 AA31



ZB5 AA0



ZB5 AA5



ZB5 AA68



ZB5 CA5

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



ZB5 AA16

Pushbuttons with recessed push ⁽¹⁾				
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

563458



XB5 AL42

814418



ZB5 AL3

110280



ZB5 CL1

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	XB5 AL42 (ZB5 AZ102 + ZB5 AL4)	0.038
Heads only, circular						
	Projecting			White	ZB5 AL1	0.019
				Black	ZB5 AL2	0.019
				Green	ZB5 AL3	0.019
				Red	ZB5 AL4	0.019
				Yellow	ZB5 AL5	0.019
				Blue	ZB5 AL6	0.019
Heads only, square						
	Projecting			White	ZB5 CL1	0.021
				Black	ZB5 CL2	0.021
				Green	ZB5 CL3	0.021
				Red	ZB5 CL4	0.021
				Yellow	ZB5 CL5	0.021
				Blue	ZB5 CL6	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 (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						
	Booted, clear silicone (colour of push unobscured)	1	—	Black	XB5 AP21 (ZB5 AZ101 + ZB5 AP2)	0.039
				Green	XB5 AP31 (ZB5 AZ101 + ZB5 AP3)	0.039
				Yellow	XB5 AP51 (ZB5 AZ101 + ZB5 AP5)	0.039
				Blue	XB5 AP61 (ZB5 AZ101 + ZB5 AP6)	0.039
		—	1	Red	XB5 AP42 (ZB5 AZ102 + ZB5 AP4)	0.039
Silicone booted heads only, with increased protection (IP 69K)						
	Flush Clear boot (2) For insertion of protected legend within head (3)			White	ZB5 AP18	0.023
				Green	ZB5 AP38	0.023
				Red	ZB5 AP48	0.023
				Yellow	ZB5 AP58	0.023
				Blue	ZB5 AP68	0.023
	Projecting Clear boot (2)			White	ZB5 AP1	0.014
				Black	ZB5 AP2	0.014
				Green	ZB5 AP3	0.014
				Red	ZB5 AP4	0.014
				Yellow	ZB5 AP5	0.014
				Blue	ZB5 AP6	0.014
Silicone booted heads only, standard for mouting with legend holder (IP 66)						
	Flush Coloured boot (4)			White	ZB5 AP1S	0.021
				Black	ZB5 AP2S	0.021
				Green	ZB5 AP3S	0.021
				Red	ZB5 AP4S	0.021
				Yellow	ZB5 AP5S	0.021
				Blue	ZB5 AP6S	0.021
	Clear membrane (4) For insertion of protected legend within head (3)			White	ZB5 AP183	0.010
				Green	ZB5 AP383	0.010
				Red	ZB5 AP483	0.010
				Yellow	ZB5 AP583	0.010
				Blue	ZB5 AP683	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 Text (colour)	Colour of push	Reference	Weight kg
		N/O	N/C				
Complete units							
	Flush	1	–	"I" (white)	Green	XB5 AA3311 (ZB5 AZ101 + ZB5 AA331)	0.037
	Flush	–	1	"O" (white)	Red	XB5 AA4322 (ZB5 AZ102 + ZB5 AA432)	0.037
	Projecting	–	1	"O" (white)	Red	XB5 AL4322 (ZB5 AZ102 + ZB5 AL432)	0.037
	Flush (2)	1	–	↑ (black)	White	XB5 AA3341 (ZB5 AZ101 + ZB5 AA334)	0.037
	Flush (2)	1	–	↓ (white)	Black	XB5 AA3351 (ZB5 AZ101 + ZB5 AA335)	0.037
Heads only, circular							
	Flush			"I" (white)	Green	ZB5 AA331	0.018
				"I" (black)	White	ZB5 AA131	0.018
				"II" (white)	Green	ZB5 AA336	0.018
				"II" (black)	White	ZB5 AA136	0.018
				"START" (white)	Green	ZB5 AA333	0.018
				"START" (black)	White	ZB5 AA133	0.018
				"ON" (white)	Green	ZB5 AA341	0.018
				"ON" (black)	White	ZB5 AA141	0.018
				"MARCHE" (white)	Green	ZB5 AA342	0.018
				"MARCHE" (black)	White	ZB5 AA142	0.018
				(white)	Black	ZB5 AA245	0.018
				(black)	White	ZB5 AA145	0.018
				"O" (white)	Red	ZB5 AA432	0.018
					Black	ZB5 AA232	0.018
				"ARRET" (white)	Red	ZB5 AA433	0.018
					Black	ZB5 AA233	0.018
				"STOP" (white)	Red	ZB5 AA434	0.018
					Black	ZB5 AA234	0.018
				"OFF" (white)	Red	ZB5 AA435	0.018
					Black	ZB5 AA235	0.018
				UP (black)	White	ZB5 AA343	0.018
				Down (white)	Black	ZB5 AA344	0.018
				↑ (black) (2)	White	ZB5 AA334	0.018
				↓ (white) (2)	Black	ZB5 AA335	0.018

Heads only, square

	Flush (2)			"I" (white)	Green	ZB5 CA331	0.019
				"O" (white)	Red	ZB5 CA432	0.019
				"+" (white)	Black	ZB5 CA2934	0.019
				↑ (white)	Black	ZB5 CA2912	0.019
				"R" (white)	Blue	ZB5 CA6939	0.019

Heads only, circular

	Projecting (2)			"O" (white)	Red	ZB5 AL432	0.019
					Black	ZB5 AL232	0.019
				"ARRET" (white)	Red	ZB5 AL433	0.019
					Black	ZB5 AL233	0.019
				"STOP" (white)	Red	ZB5 AL434	0.019
					Black	ZB5 AL234	0.019
				"OFF" (white)	Red	ZB5 AL435	0.019
					Black	ZB5 AL235	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				
Complete units - With plain lens							
 	Integral LED	1	1	~ 24 50/60 Hz	White	XB5 AW31B5 (ZB5 AW0B15 + ZB5 AW313)	0.056
					Green	XB5 AW33B5 (ZB5 AW0B35 + ZB5 AW333)	0.056
					Red	XB5 AW34B5 (ZB5 AW0B45 + ZB5 AW343)	0.056
					Orange	XB5 AW35B5 (ZB5 AW0B55 + ZB5 AW353)	0.056
					Blue	XB5 AW36B5 (ZB5 AW0B65 + ZB5 AW363)	0.056
				~ 110...120 50/60 Hz	White	XB5 AW31G5 (ZB5 AW0G15 + ZB5 AW313)	0.056
					Green	XB5 AW33G5 (ZB5 AW0G35 + ZB5 AW333)	0.056
					Red	XB5 AW34G5 (ZB5 AW0G45 + ZB5 AW343)	0.056
					Orange	XB5 AW35G5 (ZB5 AW0G55 + ZB5 AW353)	0.056
					Blue	XB5 AW36G5 (ZB5 AW0G65 + ZB5 AW363)	0.056
~ 230...240 50/60 Hz	White	XB5 AW31M5 (ZB5 AW0M15 + ZB5 AW313)	0.056				
	Green	XB5 AW33M5 (ZB5 AW0M35 + ZB5 AW333)	0.056				
	Red	XB5 AW34M5 (ZB5 AW0M45 + ZB5 AW343)	0.056				
	Orange	XB5 AW35M5 (ZB5 AW0M55 + ZB5 AW353)	0.056				
	Blue	XB5 AW36M5 (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				
	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
	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
	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
	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)

	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)

	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
	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				
 Protected LED	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)				
 Protected LED	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)				
 Protected LED	Projecting (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 (1)								
Screw clamp terminal connections (Schneider Electric anti-retightening system)								
Shape of head	Description	Type of contact		Supply voltage	Colour of push	Reference	Weight	
								V
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	XB5 AW3165 (ZB5 AW065 + ZB5 AW31)	0.057	
					Green	XB5 AW3365 (ZB5 AW065 + ZB5 AW33)	0.057	
					Red	XB5 AW3465 (ZB5 AW065 + ZB5 AW34)	0.057	
					Orange	XB5 AW3565 (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 50/60 Hz	White	XB5 AW3135 (ZB5 AW035 + ZB5 AW31)	0.128	
					Green	XB5 AW3335 (ZB5 AW035 + ZB5 AW33)	0.128	
					Red	XB5 AW3435 (ZB5 AW035 + ZB5 AW34)	0.128	
					Orange	XB5 AW3535 (ZB5 AW035 + ZB5 AW35)	0.128	
				~ 230 50 Hz ~ 220...240 60 Hz	White	XB5 AW3145 (ZB5 AW045 + ZB5 AW31)	0.129	
					Green	XB5 AW3345 (ZB5 AW045 + ZB5 AW33)	0.129	
					Red	XB5 AW3445 (ZB5 AW045 + ZB5 AW34)	0.129	
					Orange	XB5 AW3545 (ZB5 AW045 + ZB5 AW35)	0.129	
	Heads only (2) - With plain lens							
		Flush				White	ZB5 AW31	0,018
						Green	ZB5 AW33	0,018
						Red	ZB5 AW34	0,018
					Orange	ZB5 AW35	0,018	
					Blue	ZB5 AW36	0,018	
					Clear	ZB5 AW37	0,018	
Heads only (2) - With grooved lens (3)								
	Flush				White	ZB5 AW31S	0.018	
					Green	ZB5 AW33S	0.018	
					Red	ZB5 AW34S	0.018	
					Orange	ZB5 AW35S	0.018	
					Blue	ZB5 AW36S	0.018	
					Clear	ZB5 AW37S	0.018	
Illuminated pushbuttons with projecting push (1)								
Heads only (2) - With plain lens								
	Projecting				White	ZB5 AW11	0.017	
					Green	ZB5 AW13	0.017	
					Red	ZB5 AW14	0.017	
					Orange	ZB5 AW15	0.017	
					Blue	ZB5 AW16	0.017	
					Clear	ZB5 AW17	0.017	
Heads only (2) - With grooved lens (3)								
	Projecting				White	ZB5 AW11S	0.018	
					Green	ZB5 AW13S	0.018	
					Red	ZB5 AW14S	0.018	
					Orange	ZB5 AW15S	0.018	
					Blue	ZB5 AW16S	0.018	
					Clear	ZB5 AW17S	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 (1 flush black + 1 projecting red)	1	1	White "I" on green background White "O" on red background	XB5 AL73415	0.053
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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 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 1 projecting red push 1 white central pilot light block	1	1	White "I" on green background 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 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 1 projecting red push 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 :
page 80

Characteristics :
page 88

Dimensions :
page 146

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 White "II" on green background	XB5 AA731327	0.063
					Black "→" on white background 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 White "II" on green background	ZB5 AA73132	0.023
					White "←" on green background White "→" on green background	ZB5 AA73133	0.023
					White "↑" on green background White "↓" on green background	ZB5 AA73134	0.023
					White "+" on green background White "-" on green background	ZB5 AA73135	0.023
					Black "+" on white background Black "-" on white background	ZB5 AA71115	0.023
					Black "→" on white background White "←" on black background	ZB5 AA71123	0.023
					Black "↑" on white background White "↓" on black background	ZB5 AA71124	0.023
					White "↑" on black background 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
	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
Clear silicone boots (6)	Yellow	Unmarked	10	ZBA 75	0.010
	Blue	Unmarked	10	ZBA 76	0.010
	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 :
page 80

Characteristics :
page 88

Dimensions :
page 146

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	XB5 AC21 (ZB5 AZ101 + ZB5 AC2)	0.062
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Heads only

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

Mushroom head pushbuttons (1) (2)

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
Heads only					
 ZB5 AT2		30	Black	ZB5 AT24	0.044
			Black	ZB5 AT2	0.049
			Black	ZB5 AX2	0.067
 ZB5 AS62		30	Black	ZB5 AS42	0.040
			Black	ZB5 AS52	0.044
		40	Yellow	ZB5 AS55	0.044
		60	Black	ZB5 AS62	0.064
 ZB5 AS72		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
Heads only (6)					
 ZB5 AW733	 Protected LED	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

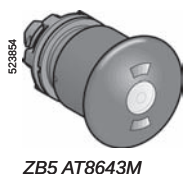
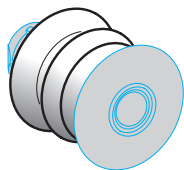
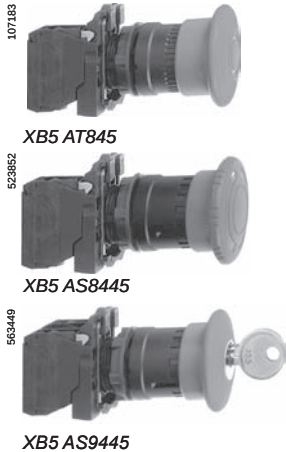
Harmony® XB5, plastic

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 (1) (2)

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	XB5 AT845 (ZB5 AZ105 + ZB5 AT84)	0.076
	Turn to release	1	1	40	Red	XB5 AS8445 (ZB5 AZ105 + ZB5 AS844)	0.072
		—	2	40	Red	XB5 AS8444 (ZB5 AZ104 + ZB5 AS844)	0.072
	Key release (key n° 455) 	1	1	40	Red	XB5 AS9445 (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	ZB5 AT844 ▲	0.050
		40	Red	ZB5 AT84	0.050
		60	Red	ZB5 AX84	0.050
	Turn to release	30	Red	ZB5 AS834	0.042
		40	Red	ZB5 AS844	0.046
	Key release (key n° 455) 2 keys included with head (5) 	30	Red	ZB5 AS934	0.068
		40	Red	ZB5 AS944 (4)	0.071
		60	Red	ZB5 AS964	0.092
	Key release (key n° 4A185) (5)	40	Red	ZB5 AS944D	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	ZBZ 48	0.009
	EPDM	Black	2	ZBZ 28	0.009
		Yellow	2	ZBZ 58	0.009

Illuminated Emergency stop trigger action and mechanical latching pushbuttons with mechanical state indicator (1)

For elevator inspection box applications

Heads only (7)

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
	Push-pull (6)	40	Red	ZB5 AT8643M	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.

▲ 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 ⁽¹⁾ ⁽²⁾

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

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

Illuminated Emergency switching off, mechanical latching pushbuttons ⁽¹⁾

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

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
Heads only ⁽⁶⁾					
	Turn to release	40	Red	ZB5 AW743	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 ⁽¹⁾

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only, circular				
	Without cap (2)	–	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 (2)	–	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 ⁽¹⁾

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 ⁽¹⁾

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only, circular (3)				
 	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 (3)				
 	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



ZB5 CH343

Illuminated pushbuttons with projecting push ⁽¹⁾

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only, circular ⁽³⁾				
	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

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

⁽²⁾ Caps to be ordered separately, see page 132.

⁽³⁾ 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 (1)					
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 ⁽¹⁾				
Shape of head	Type of push	Marking	Reference	Weight kg
Heads only				
	Knurled without cap ⁽²⁾	—	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 (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		

Complete units

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

Heads only

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

Heads only with other coloured handles

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

(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

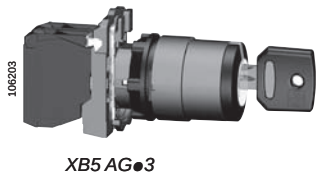
Key n° 455, 8D1, 421E, 458A, 520E or 3131A

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

Heads only



Key switch
with key n° 455 (3) (4)

2-position 90°	Stay put		ZB5 AG2	0.057
			ZB5 AG02	0.057
			ZB5 AG4	0.057
	Spring return from right to left		ZB5 AG6	0.061
3-position ± 45°	Stay put		ZB5 AG0	0.057
			ZB5 AG3	0.057
			ZB5 AG5	0.057
			ZB5 AG9	0.057
			ZB5 AG09	0.057
			ZB5 AG1	0.057
			ZB5 AG7	0.057
			ZB5 AG8	0.057
	Spring return from left to centre		ZB5 AG1	0.057
	Spring return to centre		ZB5 AG7	0.057
	Spring return from right to centre		ZB5 AG8	0.057
			ZB5 AG05	0.057
			ZB5 AG08	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 ⁽¹⁾

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											
 	Standard handle	1	1	2-position Stay put  90°	~ 24 (50/60 Hz)	Green	XB5 AK123B5 (ZB5 AW0B35 + ZB5 AK1233)	0.516			
						Red	XB5 AK124B5 (ZB5 AW0B45 + ZB5 AK1243)	0.516			
						Orange	XB5 AK125B5 (ZB5 AW0B55 + ZB5 AK1253)	0.516			
					~ 110...120 (50/60 Hz)	Green	XB5 AK123G5 (ZB5 AW0G35 + ZB5 AK1233)	0.516			
						Red	XB5 AK124G5 (ZB5 AW0G45 + ZB5 AK1243)	0.516			
						Orange	XB5 AK125G5 (ZB5 AW0G55 + ZB5 AK1253)	0.516			
					~ 230...240 (50/60 Hz)	Green	XB5 AK123M5 (ZB5 AW0M35 + ZB5 AK1233)	0.516			
						Red	XB5 AK124M5 (ZB5 AW0M45 + ZB5 AK1243)	0.516			
						Orange	XB5 AK125M5 (ZB5 AW0M55 + ZB5 AK1253)	0.516			
					1	1	3-position Stay put  ± 45°	~ 24 (50/60 Hz)	Green	XB5 AK133B5 (ZB5 AW0B35 + ZB5 AK1333)	0.516
									Red	XB5 AK134B5 (ZB5 AW0B45 + ZB5 AK1343)	0.516
									Orange	XB5 AK135B5 (ZB5 AW0B55 + ZB5 AK1353)	0.516
~ 110...120 (50/60 Hz)	Green	XB5 AK133G5 (ZB5 AW0G35 + ZB5 AK1333)	0.516								
	Red	XB5 AK134G5 (ZB5 AW0G45 + ZB5 AK1343)	0.516								
	Orange	XB5 AK135G5 (ZB5 AW0G55 + ZB5 AK1353)	0.516								
1	1		~ 230...240 (50/60 Hz)	Green	XB5 AK133M5 (ZB5 AW0M35 + ZB5 AK1333)	0.516					
				Red	XB5 AK134M5 (ZB5 AW0M45 + ZB5 AK1343)	0.516					
				Orange	XB5 AK135M5 (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				
Heads only (2)							
 ZB5 AK1263	Standard handle	2-position 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
 ZB5 AK1463	Standard handle	2-position 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 ± 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 ± 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 ± 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 ± 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 V	Colour	Reference	Weight kg
Complete units				
■ With plain lens				
 Protected LED	~ 24 (50/60 Hz)	White	XB5 AVB1 (ZB5 AVB1 + ZB5 AV013)	0.038
		Green	XB5 AVB3 (ZB5 AVB3 + ZB5 AV033)	0.038
		Red	XB5 AVB4 (ZB5 AVB4 + ZB5 AV043)	0.038
		Orange	XB5 AVB5 (ZB5 AVB5 + ZB5 AV053)	0.038
		Blue	XB5 AVB6 (ZB5 AVB6 + ZB5 AV063)	0.038
	~ 110...120 (50/60 Hz)	White	XB5 AVG1 (ZB5 AVG1 + ZB5 AV013)	0.038
		Green	XB5 AVG3 (ZB5 AVG3 + ZB5 AV033)	0.038
		Red	XB5 AVG4 (ZB5 AVG4 + ZB5 AV043)	0.038
		Orange	XB5 AVG5 (ZB5 AVG5 + ZB5 AV053)	0.038
		Blue	XB5 AVG6 (ZB5 AVG6 + ZB5 AV063)	0.038
	~ 230...240 (50/60 Hz)	White	XB5 AVM1 (ZB5 AVM1 + ZB5 AV013)	0.038
		Green	XB5 AVM3 (ZB5 AVM3 + ZB5 AV033)	0.038
		Red	XB5 AVM4 (ZB5 AVM4 + ZB5 AV043)	0.038
		Orange	XB5 AVM5 (ZB5 AVM5 + ZB5 AV053)	0.038
		Blue	XB5 AVM6 (ZB5 AVM6 + ZB5 AV063)	0.038

Heads only, circular (1)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
■ With plain lens				
	Integral LED only 	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 	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 	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				
 Protected LED	Integral LED only	White	ZB5 CV013	0.020
		Green	ZB5 CV033	0.020
		Red	ZB5 CV043	0.020
		Orange	ZB5 CV053	0.020
		Blue	ZB5 CV063	0.020
		5 colours (2)	ZB5 CV003	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 V	Colour	Reference (1)	Weight kg
Complete units - With plain lens				
	~ 400 - 50 Hz (1)	White	XB5 AV5B1 	0.133
		Green	XB5 AV5B3 	0.133
		Red	XB5 AV5B4 	0.133
		Orange	XB5 AV5B5 	0.133
		Blue	XB5 AV5B6 	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 V	Colour	Reference	Weight kg
Complete units - With plain lens				
■ Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W max (bulb not included)				
	≤ 250	White	XB5 AV61 (ZB5 AV6 + ZB5 AV01)	0.037
		Green	XB5 AV63 (ZB5 AV6 + ZB5 AV03)	0.037
		Red	XB5 AV64 (ZB5 AV6 + ZB5 AV04)	0.037
		Orange	XB5 AV65 (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	XB5 AV31 (ZB5 AV3 + ZB5 AV01)	0.109
		Green	XB5 AV33 (ZB5 AV3 + ZB5 AV03)	0.109
		Red	XB5 AV34 (ZB5 AV3 + ZB5 AV04)	0.109
		Orange	XB5 AV35 (ZB5 AV3 + ZB5 AV05)	0.109
	~ 230 - 50 Hz ~ 220...240 - 60 Hz	White	XB5 AV41 (ZB5 AV4 + ZB5 AV01)	0.110
		Green	XB5 AV43 (ZB5 AV4 + ZB5 AV03)	0.110
		Red	XB5 AV44 (ZB5 AV4 + ZB5 AV04)	0.110
		Orange	XB5 AV45 (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



XB5 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 (1)					
	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	XB5 AA84101	0.027
			R	XB5 AA86102	0.027
	120...257	Without	Green	XB5 AA832	0.040
			Red	XB5 AA842	0.040
			Blue	XB5 AA862	0.040
			O	XB5 AA84201	0.040
			R	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●



XB5 KS●

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

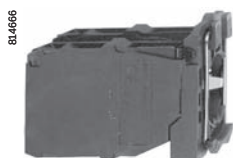
(2) Potentiometer not included.



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
Complete products				
2-direction	1 notch 1 N/O contact per direction	Without	XD5 PA12	0.060
		With	XD5 PA22	0.060
4-direction	1 notch 1 N/O contact per direction	Without	XD5 PA14	0.077
		With	XD5 PA24	0.077

Sub-assemblies for joystick controllers

Sub-assemblies for joystick controllers				
Description	For use with		Reference	Weight 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 Red reverse	ZBG 2201	0.001
		White one side Yellow reverse	ZBG 2401	0.001
Legends 48 x 48 mm for engraving	4-direction	Black one side Red reverse	ZBG 4201	0.002
		White one side 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



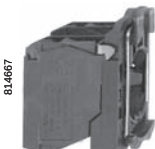
ZBE 203



ZB5 AZ101



ZBE 201



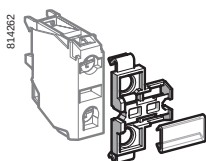
ZB5 AZ106



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) (IP5X, 50 µm dust)	1	—	5	ZBE 1016P	0.012
			—	1	5	ZBE 1026P	0.012
Staggered contacts	Single	Early make N/O	1	—	5	ZBE 201	0.011
		Late break N/C	—	1	5	ZBE 202	0.011
	Single with body/fixing collar	Overlapping N/O+N/C	1	1	5	ZB5 AZ106	0.030
		Staggered 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) (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.

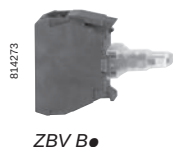
(2) It is not possible to fit an additional contact block on the back of these contact blocks.

(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 V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED) Protected LED	~ 12 (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 (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 (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 (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 (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 (to combine with heads for integral LED) Protected LED	~ 24 (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 (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 (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 V	Description	Référence	Weight 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 ~ 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 V	Level of protection	Reference	Weight kg
Light blocks with integral LED fitted with screw clamp 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 (to combine with heads for integral LED)	≈ 12 (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 (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 (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 (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 ⁽¹⁾

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) ⁽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 157

To combine with heads, see pages 94 to 118



ZBE 1023



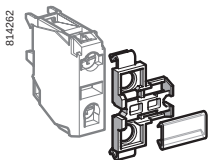
ZBE 2043



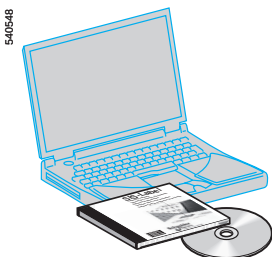
ZB5 AZ1013



ZB5 AZ1023



ZBZ 001



XBY 2U

Contact functions ⁽¹⁾**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 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 ⁽²⁾	0.021
		–	1	1	ZB5 AZ1023 ⁽²⁾	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 kg
Low power switching	Single	Standard	1	–	5	ZBE 10163 ⁽²⁾	0.012
			–	1	5	ZBE 10263 ⁽²⁾	0.012
		Dusty environments ⁽³⁾ (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 ⁽⁵⁾	0,021
			–	1	1	ZBE 5023 ⁽⁵⁾	0,021
			2	–	1	ZBE 5033 ⁽⁵⁾	0,033
			–	2	1	ZBE 5043 ⁽⁵⁾	0,033
			1	1	1	ZBE 5053 ⁽⁵⁾	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 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
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“SIS Label” labelling software (for legends ZBY 001)

For legend design for English, French, German, Italian, Spanish	1	XBY 2U	0.100
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⁽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 contacts.

To combine with heads, see pages 94 to 118



ZB5 AZ009



ZBE 1014



ZBE 1024



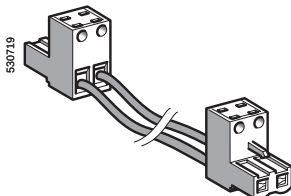
ZB5 AZ1014



ZB5 AZ1024



ZBV B•4



APE 1C2250

Body/fixing collar

For use with	Sold in lots of	Unit reference	Weight 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 kg
Contact blocks	Single	1	–	5	ZBE 1014	0.011
		–	1	5	ZBE 1024	0.011
	Single with 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**

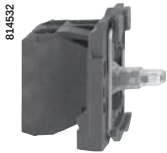
Description	Supply voltage (V)	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	~ 24 (50/60 Hz)	White	5	ZBV B14	0.016
		Green	5	ZBV B34	0.016
		Red	5	ZBV B44	0.016
		Orange	5	ZBV B54	0.016
		Blue	5	ZBV B64	0.016
	~ 110...120 (50/60 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 (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**

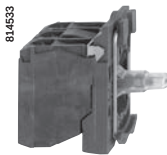
Description	Number of connectors	Wire c.s.a. mm ²	Length mm	Sold in lots of	Unit reference	Weight kg
Cables with connectors 2-pin, 5.08 mm pitch	1	0.75	500	8	APE 1C2150	0.120
	2	0.75	500	8	APE 1C2250	0.180
Spring terminal connector 2-pin, 5.08 mm pitch	–	0.2 to 2.5	–	10	APE 1PRE21	0.003

(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

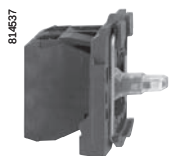
Complete body/contact assemblies and light blocks (1)						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
	V	N/O	N/C			kg
Direct supply						
Integral LED 	~ 24 (50/60 Hz)	1	—	White	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 (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.

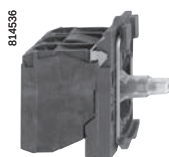
Other versions

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)						
Integral LED Protected LED ~ 230...240 (50/60 Hz)	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	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	–	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	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 V	Colour of light source	Reference	Weight kg
Integral LED protected LED	~ 12 (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) (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 (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) (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) (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 V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	$\sim$ 24 (1) (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 V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	$\sim$ 24 (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 (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 (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	
							
	V	N/O	N/C			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 50/60 Hz	1	–	–	ZB5 AW031	0.110	
		1	1	–	ZB5 AW035	0.119	
	~ 230 50 Hz	1	–	–	ZB5 AW041	0.110	
		1	1	–	ZB5 AW045	0.119	
	~ 220...240 60 Hz	1	–	–	ZB5 AW051	0.110	
		1	1	–	ZB5 AW055	0.119	
	BA9s base fitting LED, included	~ 110...120 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 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 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 V	Sold in lots of	Unit reference	Weight kg
Direct supply for BA 9s base fitting bulb, 2.4 W max., 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 V	Colour of light source	Reference	Weight kg
Direct supply				
BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB5 AV6	0.022
Supply via integral transformer (1.2 VA, 6 V secondary)				
BA 9s base fitting incandescent bulb, 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, 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 ~ 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 V	Reference	Weight kg
Direct supply			
BA 9s base fitting bulb, 2.4 W max, 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



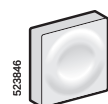
ZB5 AV156



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 Text	Colour	Colour of cap	Unit reference	Weight 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
		⚠ (1)	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 (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

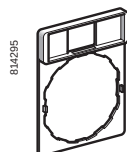
(1) Boots for multiple-headed pushbuttons: see page 103.



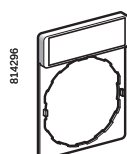
ZBV 01•3

Lens caps				
For use with	Colour	Sold in lots of	Unit reference	Weight kg
Circular 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 (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
Square lens caps for light sources with integral LED				
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
Circular 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
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

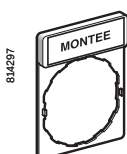
(1) Clear, green, red, orange, blue.



ZBZ 32



ZBY 101



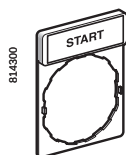
ZBY 2107

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends ⁽¹⁾

Description	Legend		Sold in lots of	Unit reference	Weight kg
	Colour	Marking			
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	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
With 8 x 27 mm legend (with French language marking)	Black or red background (2)	ARRIERE	1	ZBY 2106	0.002
		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).

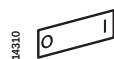


ZBY 2303

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

Description	Legend	Marking	Reference	Weight kg
With legend (with English language marking)	Black or red 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
		EMERGENCY STOP	ZBY 2330	0.002
With legend (with German language marking)	Black or red 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 0●104

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

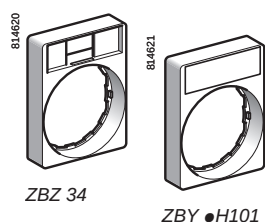
Colour	Marking	Reference	Weight kg
Black or red background (1)	International	O (black background)	ZBY 02146 0.001
		O (red background)	ZBY 02931 0.001
		I	ZBY 02147 0.001
		II	ZBY 02148 0.001
		O-I	ZBY 02178 0.001
		I-II	ZBY 02179 0.001
		I-O-II	ZBY 02186 0.001
		AUTO	ZBY 02115 0.001
		STOP	ZBY 02304 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).

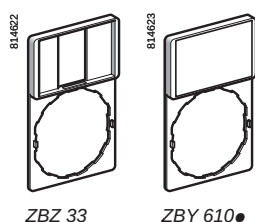
8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34) (continued)

Colour	Marking	Reference	Weight 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

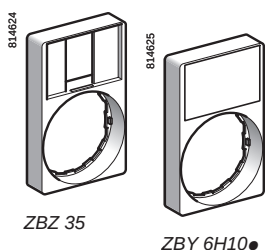
(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

**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**

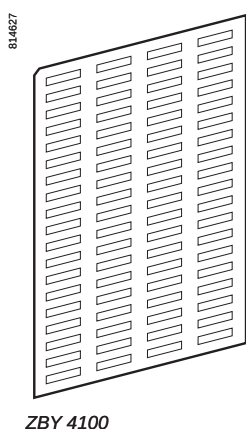
Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular heads	—	10	ZBZ 35	0.003
	Square heads	—	10	ZBC Z35	0.002
With blank legend	Circular heads	Black or red background	10	ZBY 6H101	0.004
		White or yellow background	10	ZBY 6H102	0.004
	Square heads	Black or red background	10	ZBC Y6H101	0.003
		White or yellow background	10	ZBC Y6H102	0.003

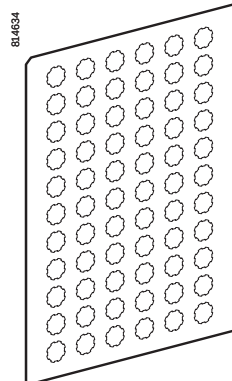
Legends for engraving

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

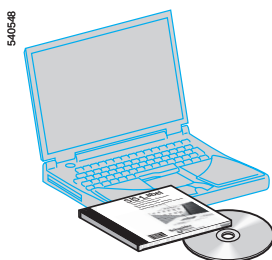
Sheets of peel-off legends (with backing board and protective transparent cover)

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





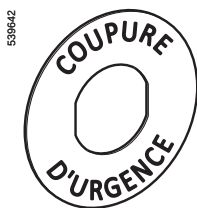
ZBY 1101



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	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
	French	↑	10	ZBY 1912	0.017
		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
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 ZBY 0101 and ZBY 0102 ZBY 5101 and ZBY 5102	XBY 2U	0.100

Circular yellow legends for mushroom head pushbuttons

Used for "Emergency stop" function

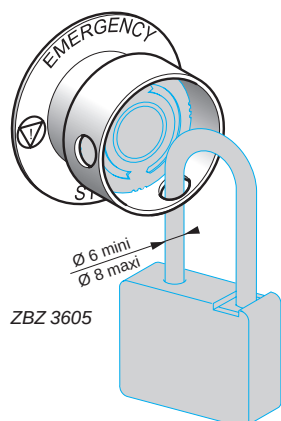
Diameter mm	Conforming to standards	Marking on yellow background	Reference	Weight kg
60	EN/IEC 60204-1 and EN/ISO 13850:2006	–	ZBY 9140	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		NOT-HALT	ZBY 9230	0.004
		PARADA DE EMERGENCIA	ZBY 9430	0.004
		ARRESTO DE EMERGENZA	ZBY 9630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



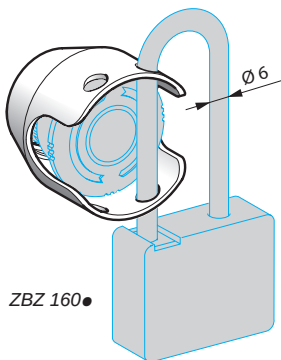
ZBZ 3605



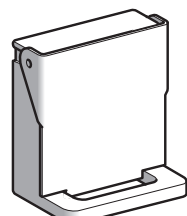
ZBY 9130T



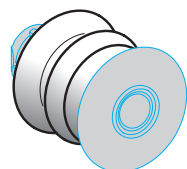
ZBY 9160T



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
Padlocking kit (3) (4) (padlockable)	Emergency stop (1) and Emergency switching off function (2), only with the following Ø 40 trigger action pushbuttons: XB5 AS844●, XB5 AS944●, ZB5 AS844, ZB5 AS944●.	Yellow	ZBZ 3605	0.045

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

Metal guards Padlockable (4)	Emergency stop function (1) only with the following Ø 40 trigger action pushbuttons: XB5 AT845, XB5 AS844 XB5 AS9445, ZB5 AT84, ZB5 AS844, ZB5 AS944.	Chromium plated	ZBZ 1600	0.046
		Black	ZBZ 1602	0.046
		Red	ZBZ 1604	0.046
		Blue	ZBZ 1606	0.046

Other accessories

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

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

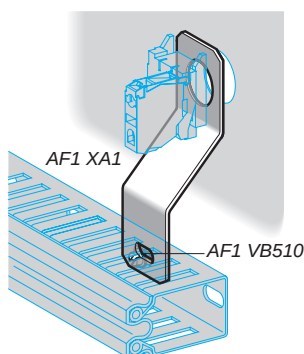
(5) Only when mounted on control stations. Use legends ZBY 9●●●T.



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.



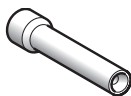
DL1 CJO●●●



DL1 CE●●●



DL1 CF●●●



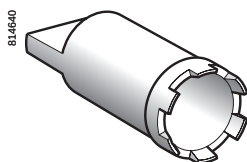
XBF X13



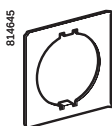
ZBZ 8



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 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 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
Description	Application		Sold in lots of	Unit reference	Weight kg
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 kg
For latching mushroom head pushbuttons and selector switches			
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, one of which supplied booted (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 kg
Keyhole cover (rubber boot)	Protection of lock barrel when no key inserted in lock	ZBG P	0.005

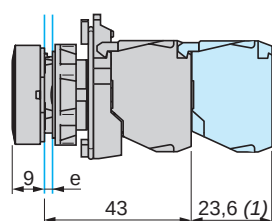
(1) Not compatible with products with key TEC10.



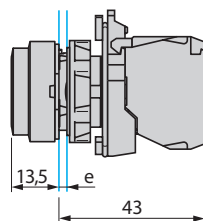
ZBG 455P

Pushbuttons, spring return

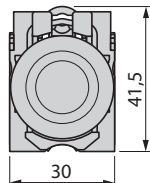
XB5 AA●●



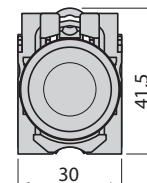
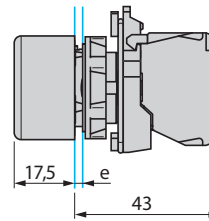
XB5 AL●●



Common face view



XB5 AP●●



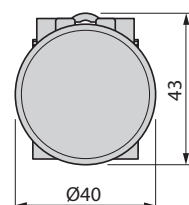
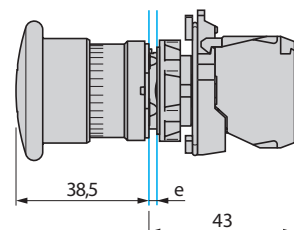
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Mushroom head pushbuttons, spring return

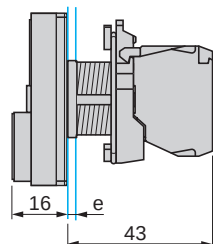
XB5 AC21



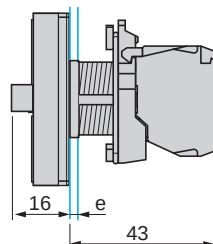
e: clamping thickness: 1 to 6 mm

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

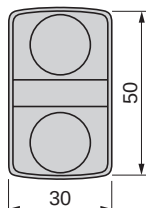
XB5 AL73415, XB5 AW73731●5



XB5 AA731327, XB5 AA711237



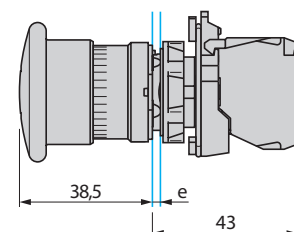
Common face view



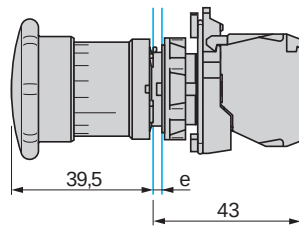
e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head pushbuttons, trigger action and mechanical latching

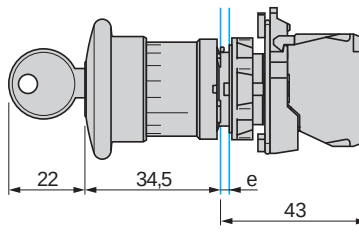
XB5 AT845



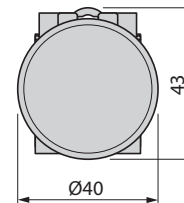
XB5 AS8445



XB5 AS9445



Common face view

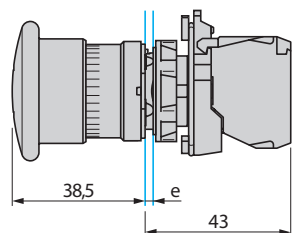


e: clamping thickness: 1 to 6 mm

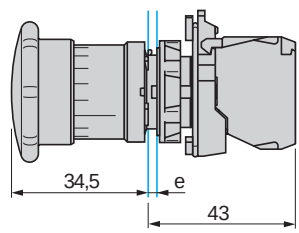
e: clamping thickness: 1 to 6 mm

Emergency switching off mushroom head pushbuttons, mechanical latching

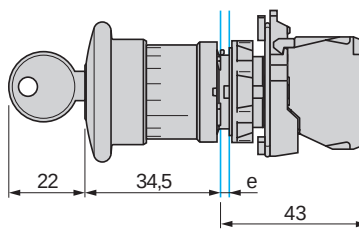
XB5 AT42



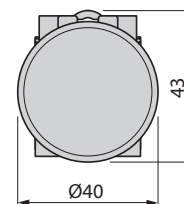
XB5 AS542



XB5 AS142



Common face view



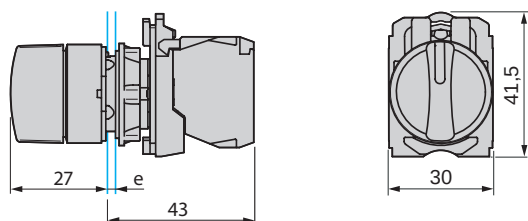
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Selector switches

Standard handle operator

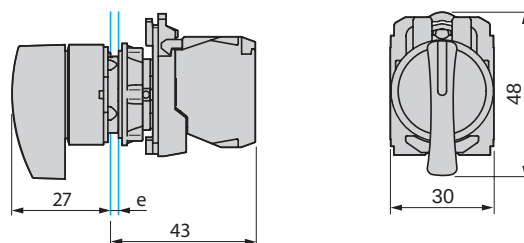
XB5 AD●●



e: clamping thickness: 1 to 6 mm

Long handle operator

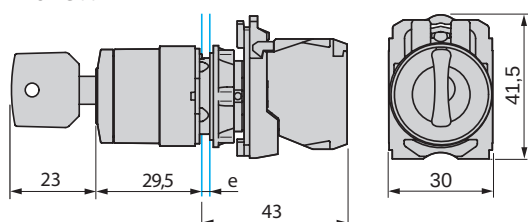
XB5 AJ●●



e: clamping thickness: 1 to 6 mm

Key switches

XB5 AG●●

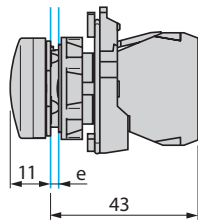


e: clamping thickness: 1 to 6 mm

Pilot lights

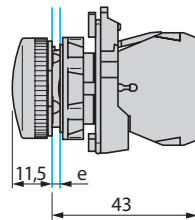
Integral LED

XB5 AVB●, AVG●, AVM●



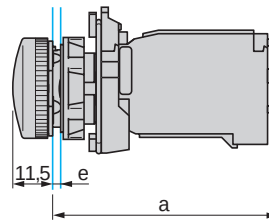
Direct supply

XB5 AV6●

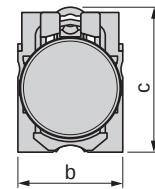


Via integral transformer

XB5 AV3●, AV4●



Common face view



	a	b	c
XB5 AV●●	43	30	41.5
XB5 AV5B●	89,6	40	45

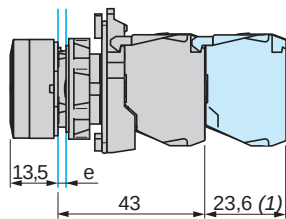
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Illuminated pushbuttons

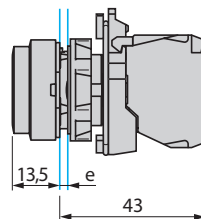
Integral LED

XB5 AW3●●5



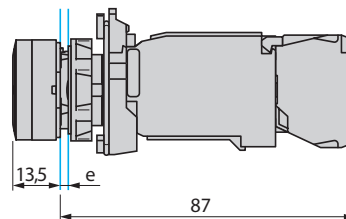
Direct supply

XB5 AW3●65

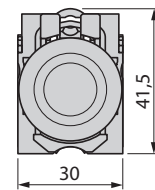


Via integral transformer

XB5 AW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

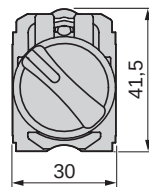
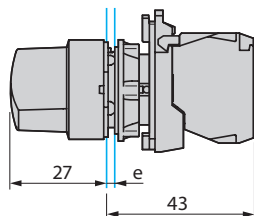
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

Illuminated selector switches

Integral LED

XB5 AK12●●5

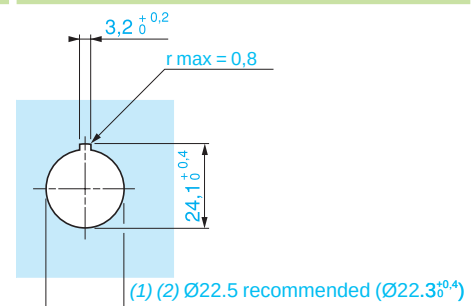
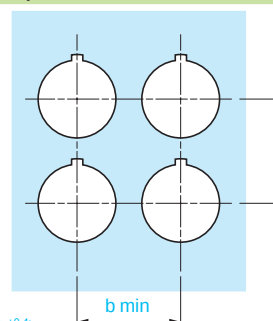
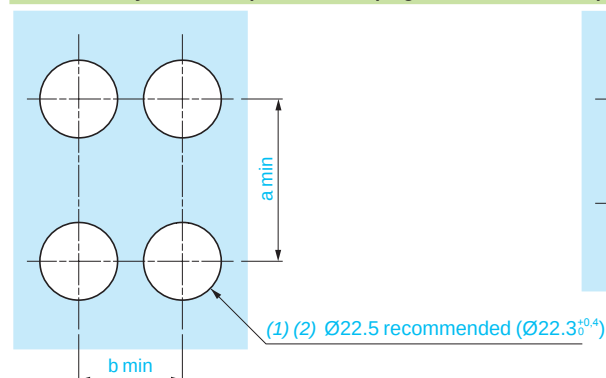


e: clamping thickness: 1 to 6 mm

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



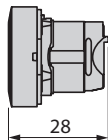
(1) Diameter on finished panel or support.

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended, see page 144.

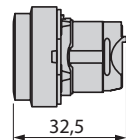
Connections	a	b
By screw clamp terminals or plug-in connector	40	30
By Faston connectors	45	32
On printed circuit board	30	30

Heads for spring return pushbuttons

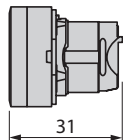
ZB5 AA●●, AA●●●, ZB5 AA●8



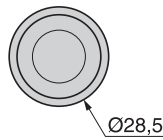
ZB5 AL●, ZB5 AL●●



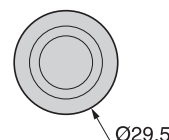
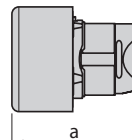
ZB5 AA●4, ZB5 AA●6



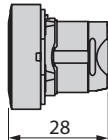
Common face view



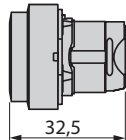
ZB5 AP●●, ZB5 AP●S, ZB5 AP●83, ZB5 AP●



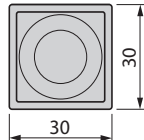
ZB5 CA●, ZB5 CA0



ZB5 CL●



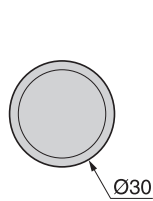
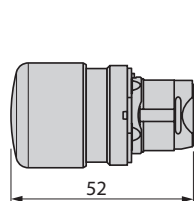
Vue de face commune



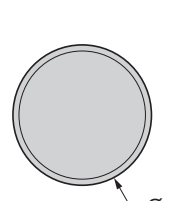
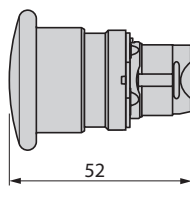
ZB5	a
AP●●	36.5
AP●S	33
AP●83	32
AP●	35

Mushroom heads for spring return pushbuttons

ZB5 AC●4

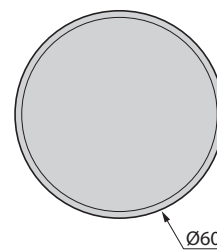
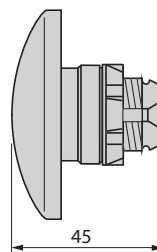


ZB5 AC●, AR●



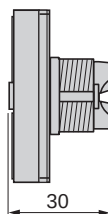
ZB5	Ø
AC●	40
AR●	60

ZB5 AR●16

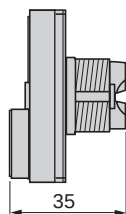


Heads for double-headed, spring return pushbuttons

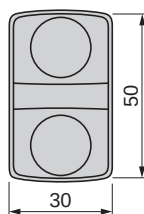
ZB5 AA712●, ZB5 AA734●, ZB5 AA79



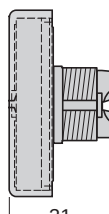
ZB5 AL734●



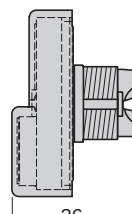
Common face view



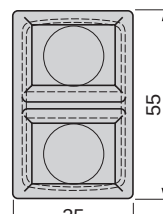
ZB5 AA712●, ZB5 AA734●, ZB5 AA79, + boot ZBA 708



ZB5 AL734● + boot ZBA 710

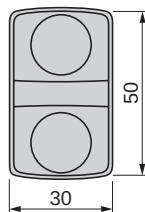
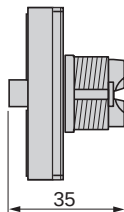


Common face view

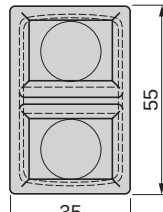
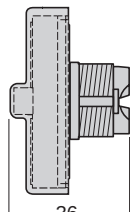


Heads for triple-headed, spring return pushbuttons

ZB5 AA7313●, ZB5 AA711●●, ZB5 AA72124, ZB5 AA791

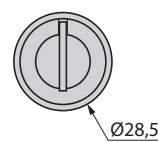
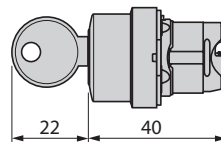


ZB5 AA7313●, ZB5 AA711●●, ZB5 AA72124, ZB5 AA791 + boot ZBA 709



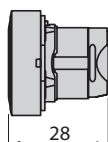
Heads for lockable, Push-turn pushbuttons

ZB5 AFD

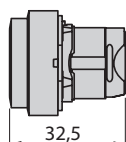


Heads for Push-push to release pushbuttons

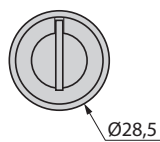
ZB5 AH0●



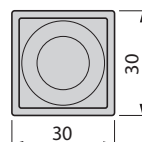
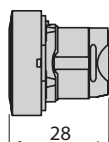
ZB5 AH●



Common face view



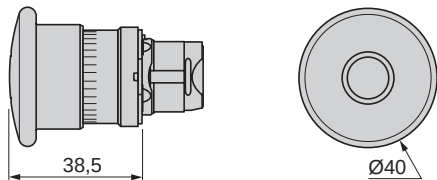
ZB5 CH0●



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

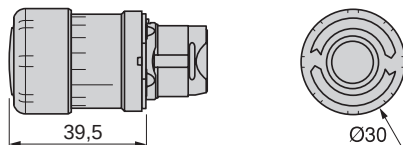
Push-pull

ZB5 AT84

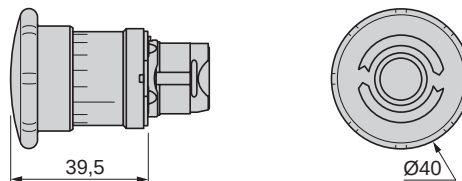


Turn to release

ZB5 AS834

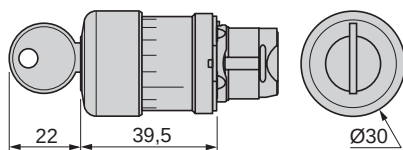


ZB5 AS844

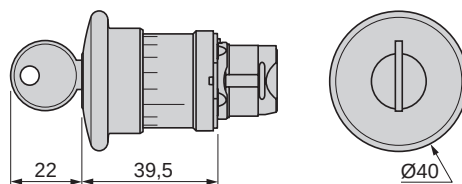


Key release

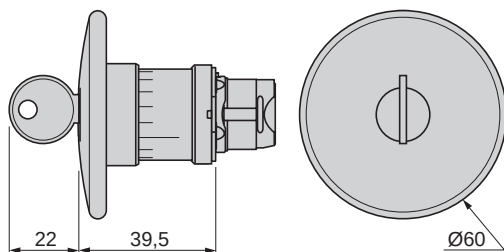
ZB5 AS934



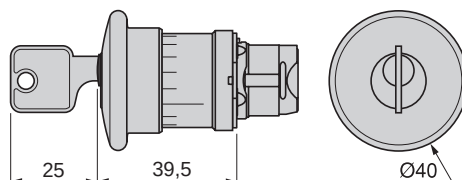
ZB5 AS944



ZB5 AS964



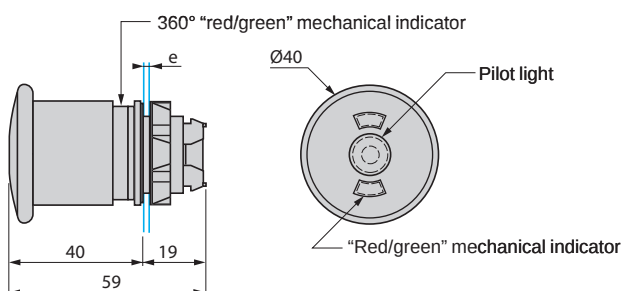
ZB5 AS944D



Illuminated mushroom heads for Emergency stop, trigger action and mechanical latching pushbuttons

Push-pull with pilot light and mechanical state indicator

ZB5 AT8643M

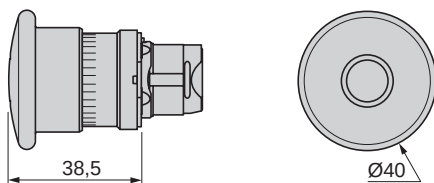


e: panel thickness 1 to 6 mm

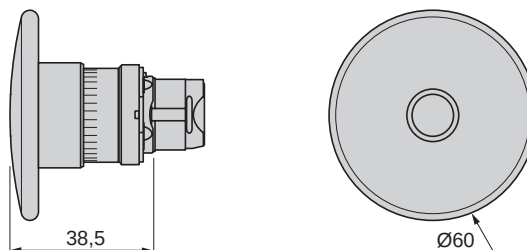
Mushroom heads for Emergency switching off, mechanical latching pushbuttons

Push-pull

ZB5 AT4

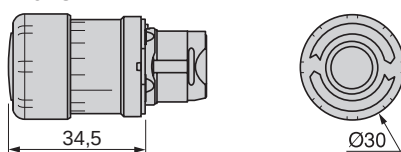


ZB5 AX4

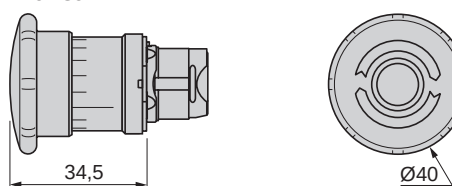


Turn to release

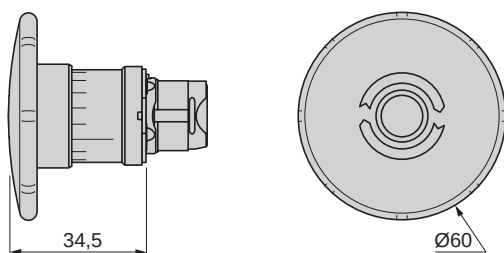
ZB5 AS44



ZB5 AS54

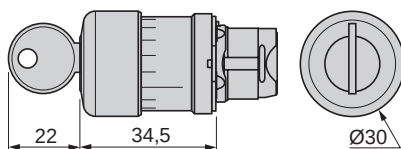


ZB5 AS64

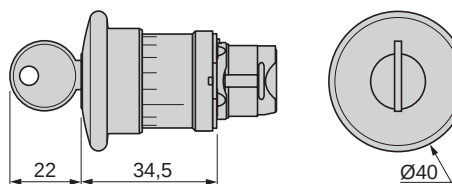


Key release

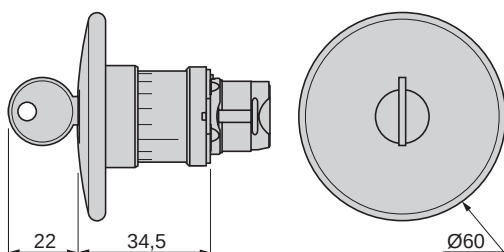
ZB5 AS74



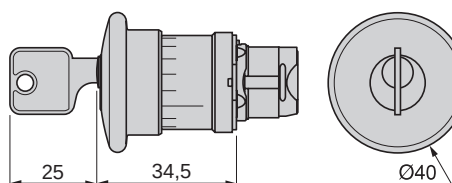
ZB5 AS14



ZB5 AS24



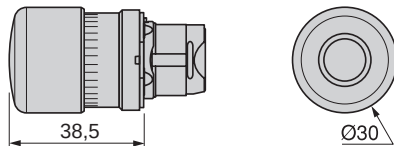
ZB5 AS14D



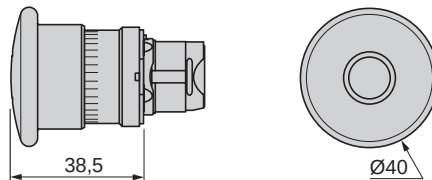
Mushroom heads for latching pushbuttons (1)

Push-pull

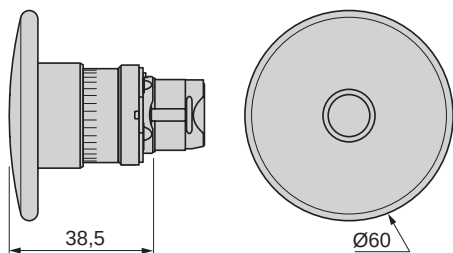
ZB5 AT24



ZB5 AT2

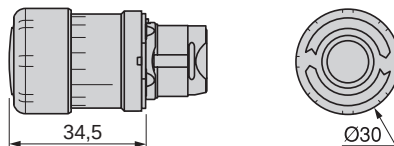


ZB5 AX2

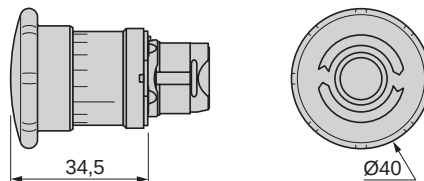


Turn to release

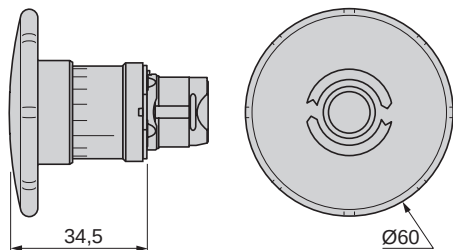
ZB5 AS42



ZB5 AS52, ZB5 AS55

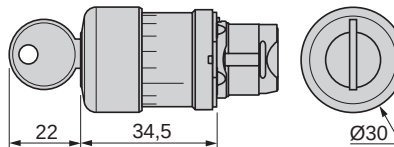


ZB5 AS62

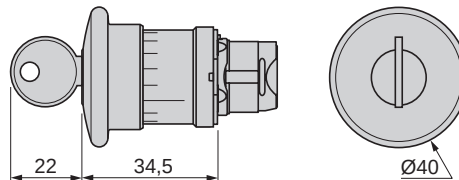


Key release

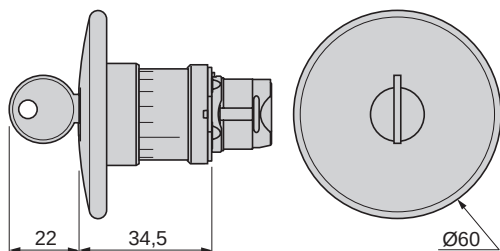
ZB5 AS72



ZB5 AS12



ZB5 AS22

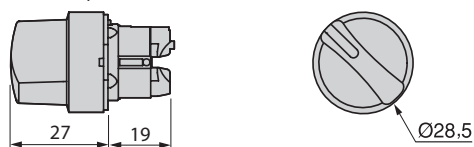


(1) Red mushroom heads for Emergency stop and Emergency switching off, latching pushbuttons: see pages 150 and 151.

Heads for selector switches

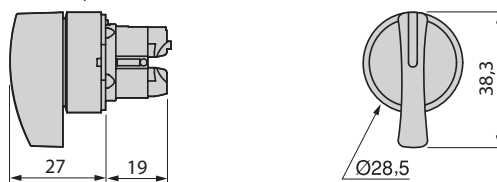
Standard handle operator

ZB5 AD●, ZB5 AD●M



Long handle operator

ZB5 AJ●, ZB5 AJ●M



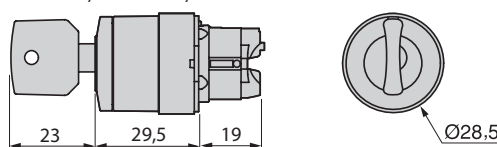
Black knurled knob

ZB5 AD●9



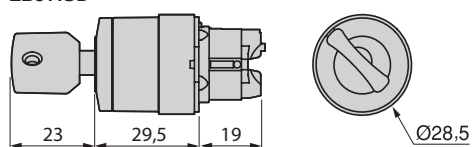
Key switch (Ronis n° 455)

ZB5 AG●, ZB5 AG0●, ZB5 AG●M



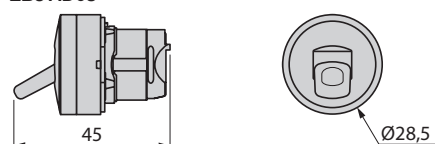
Key switch (DOM n° 8D1)

ZB5 AGD



Heads for toggle switches

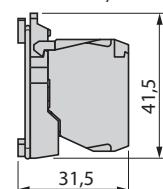
ZB5 AD●8



Bodies for pushbuttons and switches

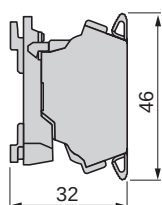
Screw clamp terminal connections

ZB5 AZ10●, ZB5 AZ141



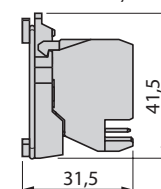
Spring terminal connections

ZB5 AZ10●5



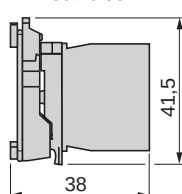
Plug-in connector

ZB5 AZ10●4, ZB5 AZ1414



High power switching with screw clamp terminal connections

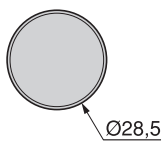
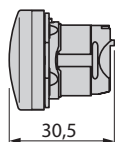
ZBE 50● block + ZB5 AZ009 body



Heads for pilot lights, with light source

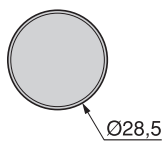
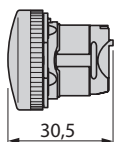
Integral LED

ZB5 AV0●3

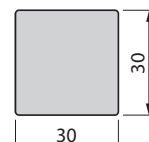
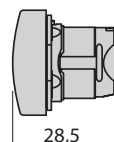


Incandescent, neon or LED

ZB5 AV0●, AV0●S



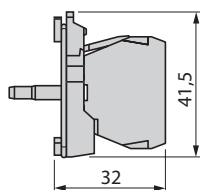
ZB5 CV0●3, CH3●3



Bodies for pilot lights, screw clamp terminal connections

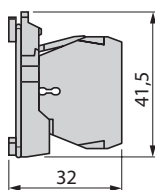
Integral LED

ZB5 AV●●



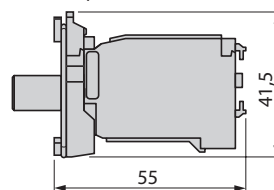
Direct supply, for BA 9s bulb

ZB5 AV6



With integral transformer, for BA9s bulb

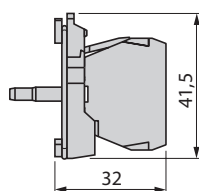
ZB5 AV●, AV●D●



Bodies for pilot lights, plug-in connector

Integral LED

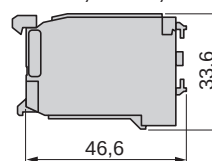
ZB5 AV●●4



Transformer blocks

For 24 V light blocks with integral LED

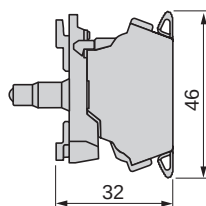
ZBV 5B, ZBV 8B, ZBV 9B



Light blocks + body for pilot lights, spring terminal connections

Integral LED

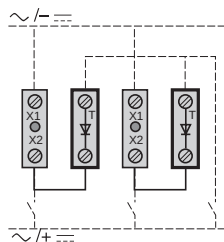
ZBV ●●5 light block + ZB5 AZ009 body



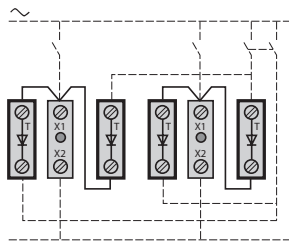
Blocks for "test light" function

Connections

ZBZ G156



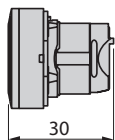
ZBZ M156



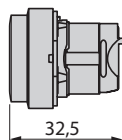
Heads for spring return illuminated pushbuttons, for light source types:

LED

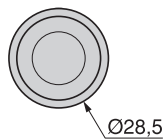
ZB5 AW3●3, AW3●3S,
ZB5 AA●8



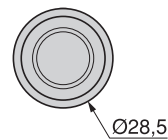
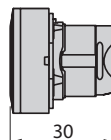
ZB5 AW1●3, ZB5 AW1●3S,
ZB5 AL●8



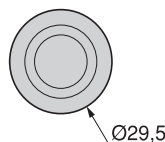
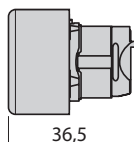
Common face view



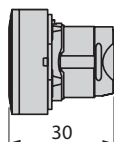
ZB5 AW9●3



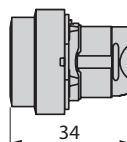
ZB5 AW5●3



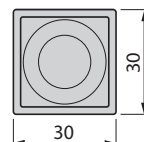
ZB5 CW3●3



ZB5 CW1●3

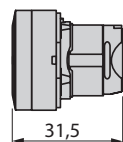


Common face view

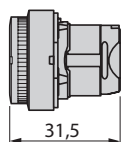


Bulb with BA9s base fitting

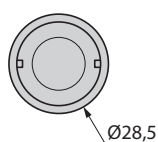
ZB5 AW3●, AW3●S



ZB5 AW1●, ZB5 AW1●S

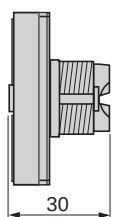


Common face view

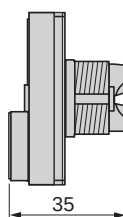


Heads for double-headed pushbuttons + pilot light

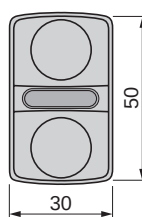
ZB5 AW7A374●, ZB5 AW7A17●●, ZB5 AW7A9



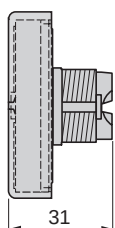
ZB5 AW7L374●



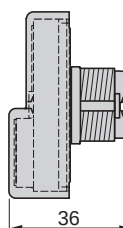
Common face view



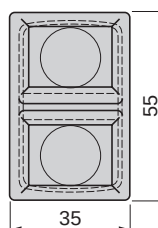
ZB5 AW7A374●, ZB5 AW7A17●●, ZB5 AW7A9
+ boot ZBA 708



ZB5 AW7L374●
+ boot ZBA 710

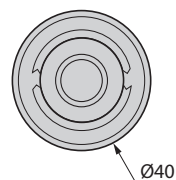
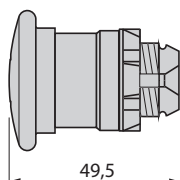


Common face view

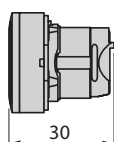


Heads for illuminated, latching, mushroom head pushbuttons

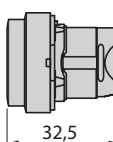
ZB5 AW7●3



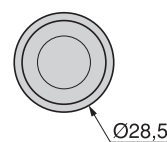
ZB5 AH0●3



ZB5 AH●3

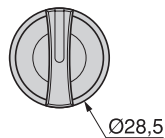
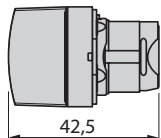


Common face view



Heads for illuminated selector switches with standard handle

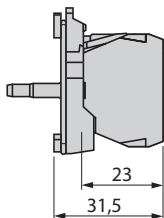
ZB5 AK1●●●3



Bodies for illuminated pushbuttons and selector switches, screw clamp terminal connections

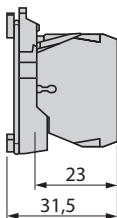
Integral LED

ZB5 AW0●●●



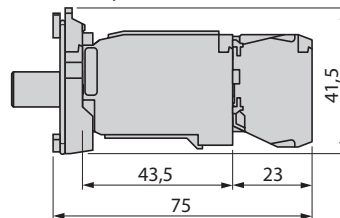
Direct supply for BA9s bulb

ZB5 AW0●●



With integral transformer for BA9s bulb

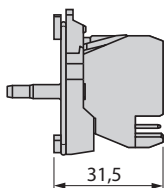
ZB5 AW0●●, ZB5 AW0●D●●



Bodies for illuminated pushbuttons and selector switches, plug-in connector

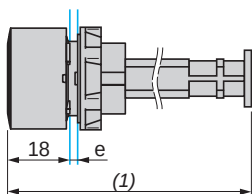
Integral LED

ZB5 AW0●●●4



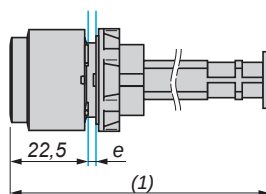
Manual overload reset buttons

XB5 A8●●●



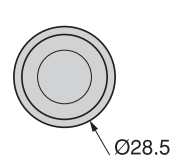
e: panel thickness 1 to 6 mm

XB5 AL8●●●



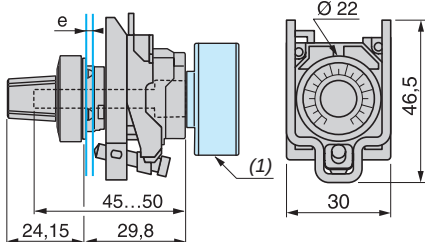
(1) Value not yet communicated

Common face view



Head + mounting base for potentiometer

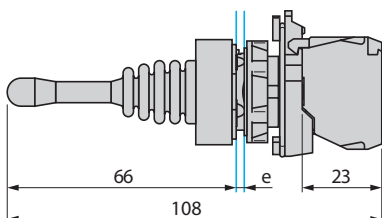
ZB5 AD9●2



(1) Potentiometer not included.

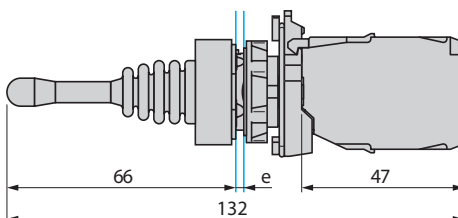
Joystick controllers

XD5 PA●2

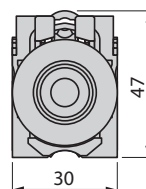


e: panel thickness 1 to 6 mm

XD5 PA●4

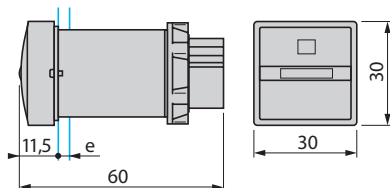


Common face view



Hour counters

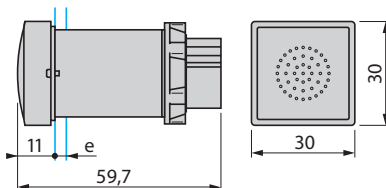
XB5 DS●



e: panel thickness 1 to 6 mm

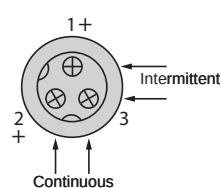
Annunciators

XB5 KS●



Cabling

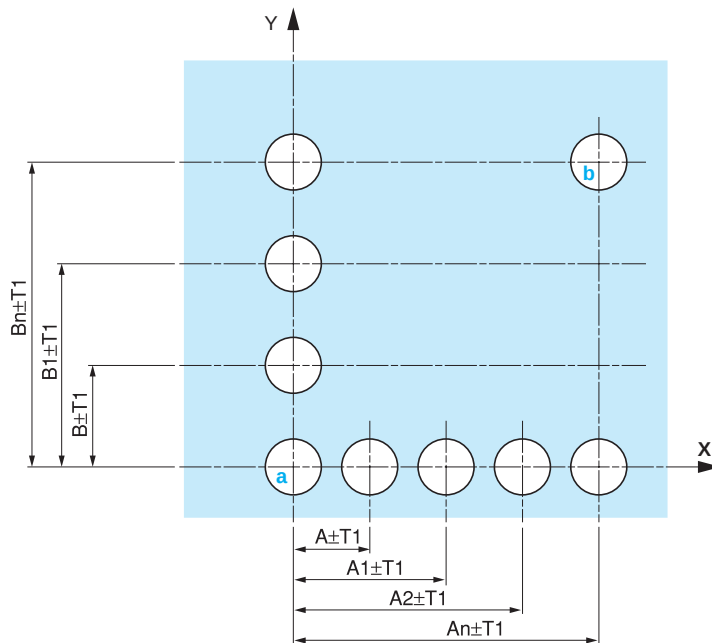
XB5 KS●



Pushbuttons, switches and pilot lights for printed circuit board connection

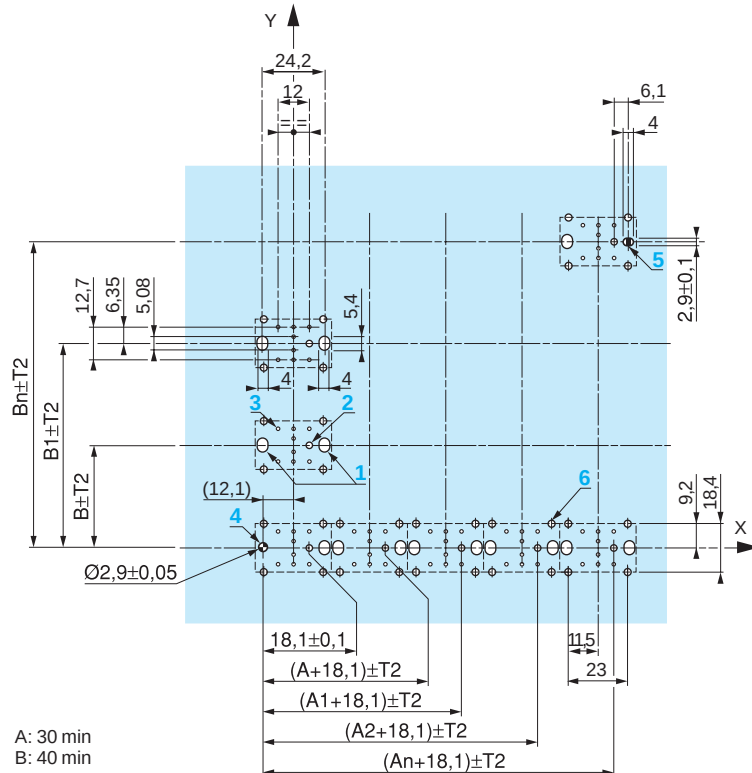
Panel cut-outs (viewed from installer's side)

Dimensions in mm



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

Dimensions in mm



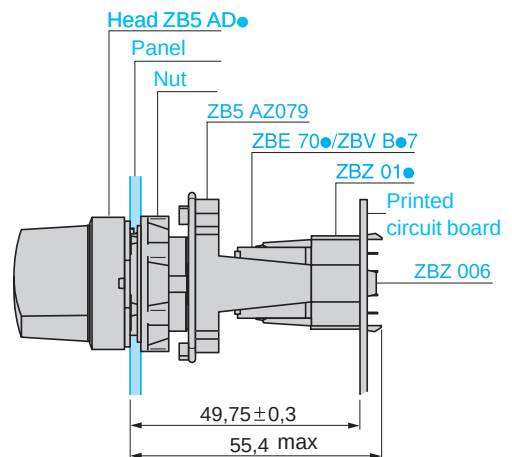
General tolerances of the panel and printed circuit board

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●.