

# Control and signalling units Ø 22

Harmony style 4

Pushbuttons, switches and pilot lights, with chromium plated metal bezel

General

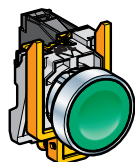
Characteristics :  
pages 1/10 to 1/13  
References :  
pages 1/14 to 1/53  
Dimensions :  
pages 1/54 to 1/61

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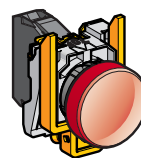
## Description

The Ø 22, style 4 range of control and signalling units comprises :

### Complete units XB4-B

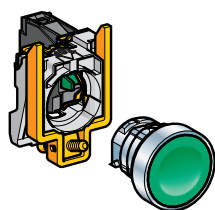


Pushbuttons

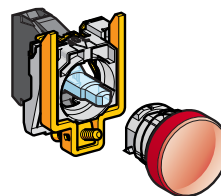


Pilot lights

### Sub-assemblies for user assembly ZB4-B

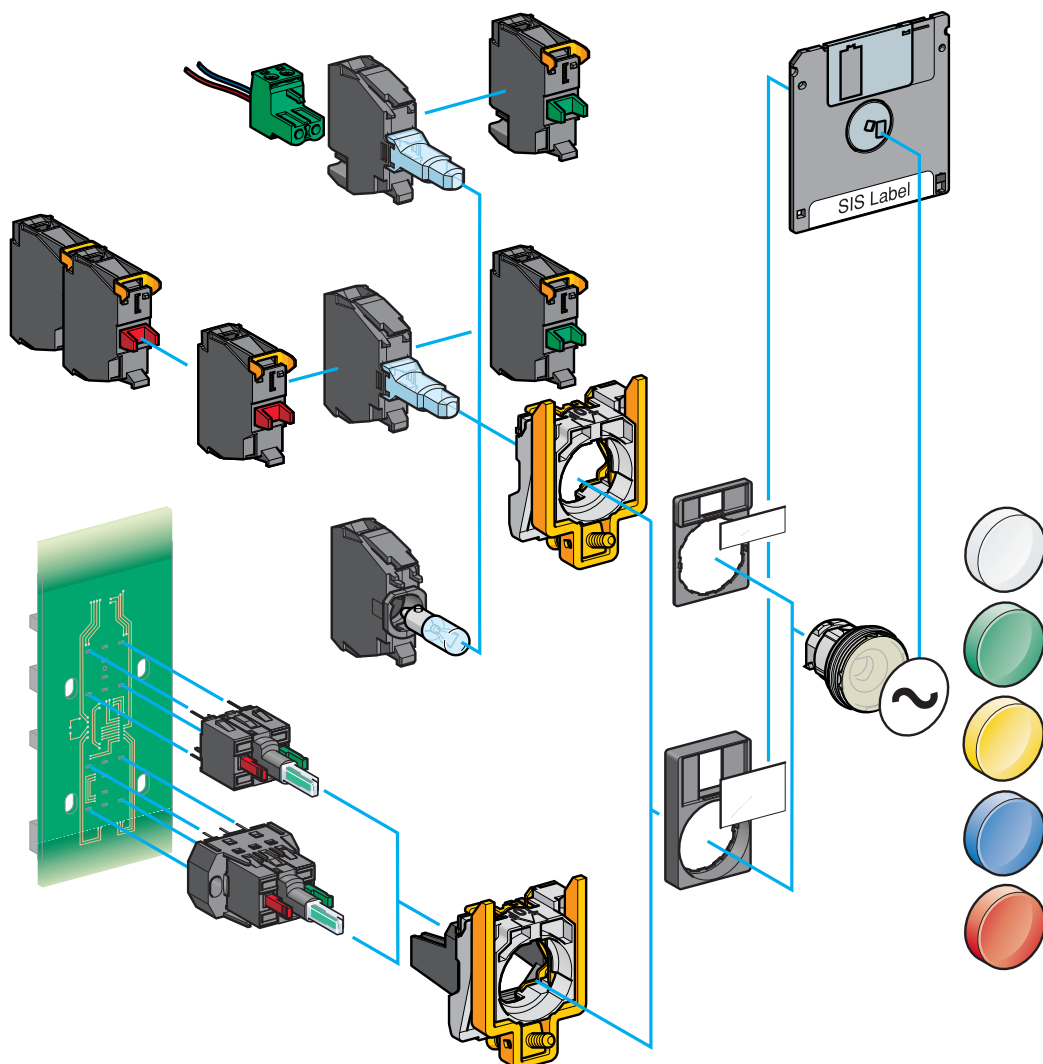


Pushbuttons:  
Head and body sub-assemblies



Pilot lights :  
Head and body sub-assemblies

### Component parts and accessories ZB



# Control and signalling units Ø 22

## Harmony style 4

Pushbuttons, switches and pilot lights, with chromium plated metal bezel

Characteristics :  
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### General (continued)

#### Schematic library

#### Pushbuttons and Emergency stop pushbuttons



Pushbutton  
N/O contact



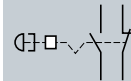
Pushbutton  
N/C contact



Mushroom head,  
spring return  
N/O contact



Emergency stop latching  
mushroom head. Push-pull  
N/C contact



Emergency stop trigger  
action mushroom head  
Push-pull  
N/O + N/C contact



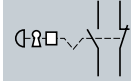
Emergency stop trigger  
action mushroom head  
Turn to release - N/C contact



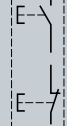
Emergency stop trigger  
action mushroom head  
Key release - N/C contact



Emergency stop trigger  
action mushroom head  
Turn to release  
N/O + N/C contact



Emergency stop trigger  
action mushroom head  
Key release  
N/O + N/C contact



Double headed pushbutton  
N/O + N/C contact

#### Selector switches



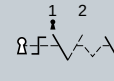
Selector switch - 2 position,  
stay put  
N/O contact



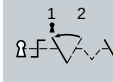
Selector switch - 3 position,  
stay put  
N/O + N/O contact



Selector switch - 3 position,  
2 spring return to centre  
N/O + N/O contact



Selector switch - 2 position,  
stay put, key withdrawal LH  
position - N/O contact



Selector switch - 2 position,  
spring return from right to left,  
key withdrawal LH position  
N/O contact

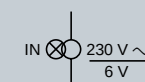
#### Pilot lights



Pilot light with BA 9s  
incandescent bulb

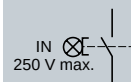


LED pilot light

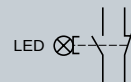


Pilot light with integral transformer, 110/120 V ~ primary,  
6 V secondary BA 9s incandescent bulb

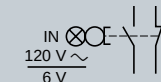
#### Illuminated pushbuttons and selector switches



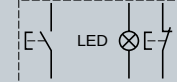
Illuminated pushbutton  
BA 9s incandescent bulb  
N/O + N/C contact



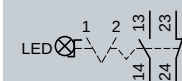
Illuminated pushbutton  
LED  
N/O + N/C contact



Illuminated pushbutton  
with integral transformer,  
110/120 ~ 50/60 Hz primary,  
6 V secondary.  
BA 9s incandescent bulb  
N/O + N/C contact



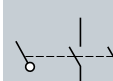
Double-headed pushbutton  
with LED pilot light  
N/O + N/C contact



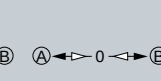
Illuminated selector switch  
LED - 2 position stay put  
N/O + N/C contact

#### Joystick controllers

2 direction

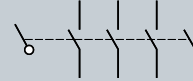


Without  
spring return

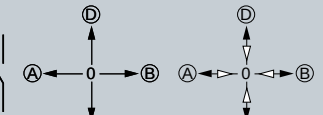


With  
spring return

4 direction



Without  
spring return



With spring  
return

# Control and signalling units Ø 22

Harmony style 4

Pushbuttons, switches and pilot lights, with chromium plated metal bezel  
Complete units, XB4-B

General

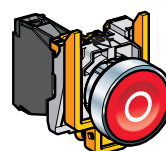
Characteristics :  
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References :  
pages 1/14 to 1/53  
Dimensions :  
pages 1/54 to 1/61

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## Complete units ready for mounting

Pushbuttons,  
spring return

## Contact functions

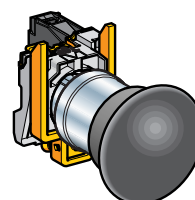
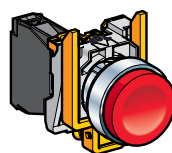


Flush push

**XB4-BA●1/BA42**  
see page 1/14

**XB4-BA3311**  
see page 1/14

**XB4-BA4322**  
see page 1/14



Booted flush push

**XB4-BP●1/BP42**  
see page 1/14

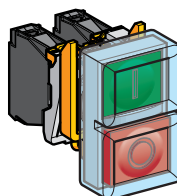
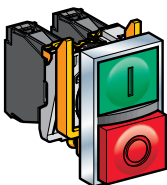
Projecting push

**XB4-BL42**  
see page 1/14

Mushroom head

**XB4-BC21**  
see page 1/14

Double-headed pushbuttons,  
spring return



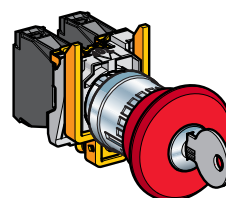
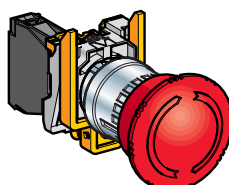
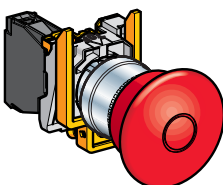
Flush push + projecting push

**XB4-BL845**  
see page 1/14

Booted  
flush push + projecting push

**XB4-BL945**  
see page 1/14

Ø 40 Emergency stop and  
mushroom head pushbuttons  
without/with trigger action



Push-pull

**XB4-BT42/BT845**  
see page 1/15

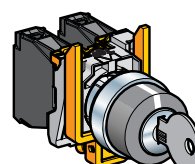
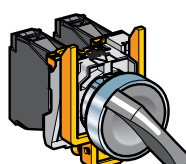
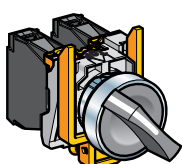
Turn to release

**XB4-BS542/BS8445**  
see page 1/15

Key release

**XB4-BS142/BS9445**  
see page 1/15

Selector switches  
and key switches



Standard black handle

**XB4-BD**  
see page 1/15

Long black handle

**XB4-BJ**  
see page 1/15

Key switches

**XB4-BG**  
see page 1/15

# Control and signalling units Ø 22

Characteristics :  
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Dimensions :  
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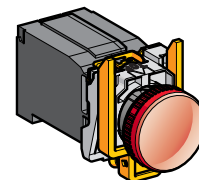
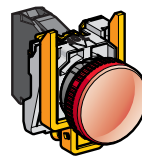
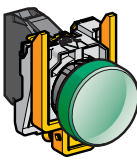
Harmony style 4

Pushbuttons, switches and pilot lights, with chromium plated metal bezel  
Complete units, XB4-B

General (continued)

## Complete units ready for mounting

### Pilot lights



With integral LED

**XB4-BVB/BVG/BVM**  
see page 1/16

For BA 9s bulb  
Direct supply

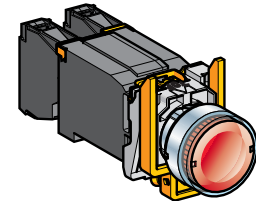
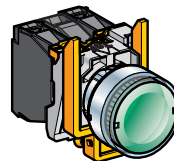
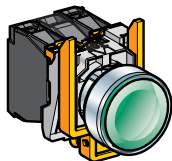
**XB4-BV6**  
see page 1/17

Via integral transformer

**XB4-BV3/BV4**  
see page 1/17

## Combined contact and signalling functions

### Illuminated pushbuttons, spring return, flush push



With integral LED

**XB4-BW3•B5/BW3•G5/BW3•M5**  
see page 1/18

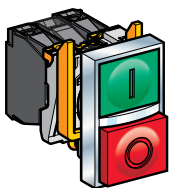
For BA 9s bulb  
Direct supply

**XB4-BW3•65**  
see page 1/18

Via integral transformer

**XB4-BW3•35/BW3•45**  
see page 1/19

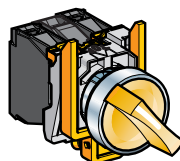
### Double-headed pushbuttons, spring return, with pilot light



With integral LED

**XB4-BW84•5**  
see page 1/19

### Illuminated selector switches, standard handle



With integral LED

**XB4-BK12•B5/BK12•G5/BK12•M5**  
see page 1/19

# Control and signalling units Ø 22

## Harmony style 4

Pushbuttons, switches and pilot lights, with chromium plated metal bezel  
Sub-assemblies, ZB4-B

### General

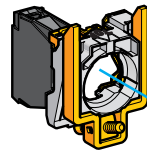
Characteristics :  
pages 1/10 to 1/13  
References :  
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Dimensions :  
pages 1/54 to 1/61

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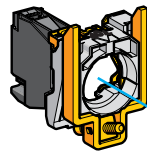
#### Non illuminated units for user assembly

Pushbuttons, spring return, without marking

##### Body sub-assemblies



Screw clamp terminals  
ZB4-BZ10●/BZ141  
see page 1/20



Plug-in connector  
ZB4-BZ10●4/BZ1414  
see page 1/20

Pushbuttons, spring return, with marking

“Push-push to release” pushbuttons

Double-headed pushbuttons, spring return

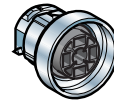
#### Contact functions

##### Head sub-assemblies



Flush push without cap

ZB4-BA0  
see page 1/21



Flush push with set of 6 colour caps

ZB4-BA9  
see page 1/21



Flush push

ZB4-BA●  
see page 1/21



Flush push for insertion of legend

ZB4-BA●8  
see page 1/21



Projecting push

ZB4-BL●  
see page 1/21



Recessed push

ZB4-BA●6  
see page 1/21



Booted flush push

ZB4-BP●  
see page 1/21



Booted flush push for insertion of legend

ZB4-BP●8  
see page 1/21



Flush push

ZB4-BA●3●/●4●  
ZB4-BA334/335  
see page 1/22



Projecting push

ZB4-BL●3●  
see page 1/22



Flush push

ZB4-BH0●  
see page 1/22



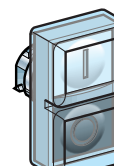
Projecting push

ZB4-BH●  
see page 1/22



Flush pushes (IP 40/IP 66)  
Without/with markings

ZB4-BA81  
ZB4-BA82  
see page 1/23

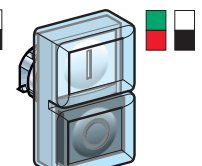


ZB4-BA91  
ZB4-BA92  
see page 1/23



Flush push + projecting push (IP 40/IP 66)  
Without/with markings

ZB4-BL83  
ZB4-BL84  
see page 1/23



ZB4-BL93  
ZB4-BL94  
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# Control and signalling units Ø 22

Characteristics :  
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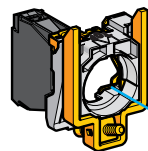
Harmony style 4  
Pushbuttons, switches and pilot lights, with chromium plated metal bezel  
Sub-assemblies, ZB4-B

General (continued)

## Non illuminated units for user assembly (continued)

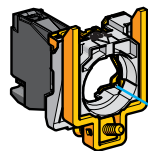
Mushroom head pushbuttons, spring return

### Body sub-assemblies



Screw clamp terminals  
ZB4-BZ10●/BZ141  
see page 1/20

Mushroom head pushbuttons, latching with or without trigger action



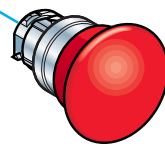
Plug-in connector  
ZB4-BZ10●4/BZ1414  
see page 1/20

Selector switches and key switches

Toggle switches

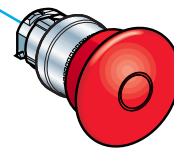
## Contact functions

### Head sub-assemblies



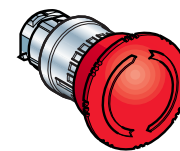
Ø 30  
Ø 40  
Ø 60

Spring return  
ZB4-BC/BR  
see page 1/24



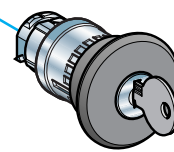
Ø 40  
Ø 60

Push-pull  
ZB4-BT84 ZB4-BT●/BX●  
see page 1/25



Ø 30  
Ø 40  
Ø 60

Turn to release  
ZB4-BS8●4 ZB4-BS4●/BS5●/BS6●  
see page 1/25



Ø 30  
Ø 40  
Ø 60

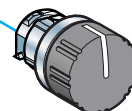
Key release  
ZB4-BS9●4/BS7●/BS1●/BS2●  
see page 1/25



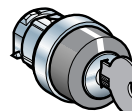
Std. black handle (1)  
ZB4-BD  
see page 1/26



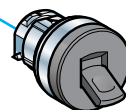
Long blk. handle (1)  
ZB4-BJ  
see page 1/26



Knurled blk. knob (1)  
ZB4-BD●9  
see page 1/26



Key switches (2)  
ZB4-BG  
see page 1/27

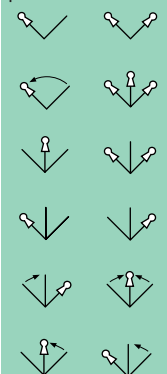


2 positions  
ZB4-BD●8  
see page 1/52

(1) Switch handle and knob positions



(2) Key withdrawal positions for key switches  
Key withdrawal positions



# Control and signalling units Ø 22

## Harmony style 4

Pushbuttons, switches and pilot lights, with chromium plated metal bezel  
Sub-assemblies, ZB4-B

General (continued)

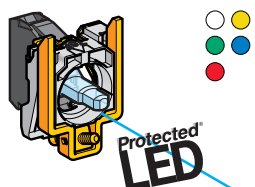
Characteristics :  
pages 1/10 to 1/13  
References :  
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Dimensions :  
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1

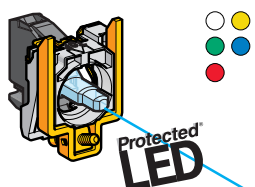
### Pilot lights for user assembly

### Signalling units

#### Body sub-assemblies Integral LED



Screw clamp terminals  
**ZB4-BVB/BVG/BVM**  
see page 1/28

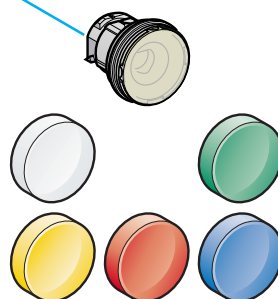


Plug-in connector  
**ZB4-BVB•4/BVG•4/BVM•4**  
see page 1/28

#### Head sub-assemblies



With lens mounted  
**ZB4-BV0•3**  
see page 1/29

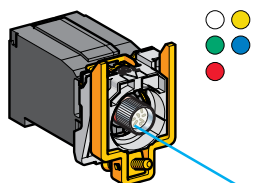


With 5 separate lenses not mounted  
**ZB4-BV003**  
see page 1/29

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



Direct supply  
Screw clamp terminals  
**ZB4-BV6**  
see page 1/29



Via integral transformer  
Screw clamp terminals  
**ZB4-BV•/BV3D•/BV5D•**  
see page 1/29

#### Head sub-assemblies



With lens mounted  
**ZB4-BV0•**  
see page 1/29



# Control and signalling units Ø 22

## Harmony style 4

Pushbuttons, switches and pilot lights, with chromium plated metal bezel  
Sub-assemblies, ZB4-B

General (continued)

Characteristics :  
pages 1/10 to 1/13  
References :  
pages 1/14 to 1/53  
Dimensions :  
pages 1/54 to 1/61

### Illuminated pushbuttons and selector switches for user assembly

Illuminated pushbuttons, spring return

Double headed pushbuttons, spring return, with pilot light

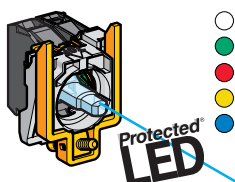
Illuminated "push-push to release" pushbuttons and illuminated selector switches with standard handle

Illuminated pushbuttons, spring return

### Combined contact and signalling functions

#### Body sub-assemblies

Integral LED



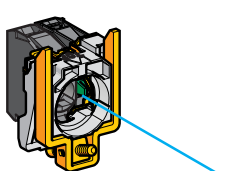
Screw clamp terminals  
ZB4-BW0B/BW0G/  
BW0M  
see pages 1/30 et 3



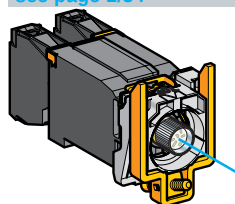
Plug-in connector  
ZB4-BW0B●●4/  
BW0G●●4/BW0M●●4  
see pages 1/32 et 5

#### Body sub-assemblies

For BA 9s bulb



Direct supply  
Screw clamp terminals  
ZB4-BW06  
see page 1/34



Via integral transformer  
Screw clamp terminals  
ZB4-BW03/4/5/3D/5D  
see page 1/34

#### Head sub-assemblies



Flush push  
ZB4-BW3●3  
see page 1/35



Flush push with  
illuminated ring  
ZB4-BW9●3  
see page 1/35



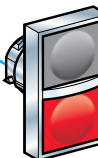
Flush push for insertion  
of legend  
ZB4-BA●8  
see page 1/35



Booted  
flush push  
ZB4-BW5●3  
see page 1/35



Projecting push  
ZB4-BW1●3  
see page 1/35



Flush pushes  
Without/with markings  
ZB4-BW81●●3,  
see page 1/36



ZB4-BW82●●3  
see page 1/36



Flush push + projecting push  
Without/with markings  
ZB4-BW83●●3,  
see page 1/36



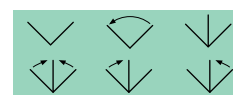
ZB4-BW84●●3  
see page 1/36



Flush or projecting  
"push-push to release"  
ZB4-BH0●3/BH●3  
see page 1/36



Selector switches with  
standard handle  
ZB4-BK1●3  
see page 1/37



#### Head sub-assemblies



Flush push  
ZB4-BW3  
see page 1/35



Projecting push  
ZB4-BW1  
see page 1/35