

Harmony style 4  
Pushbuttons, switches and pilot lights, with chromium plated metal bezel

## General

### Description

**Complete units  
XB4-B**



### Pilot lights : Head and body sub-assemblies

# Control and signalling units Ø 22

Harmony style 4

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

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

General (continued)

## Schematic library

1

### 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



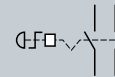
Emergency stop trigger  
action mushroom head  
Push-pull  
N/O + N/C contact



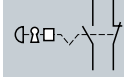
Emergency stop trigger  
action mushroom head  
Turn to release - N/C contact



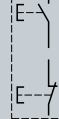
Emergency stop trigger  
action mushroom head  
Key release - N/C contact



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

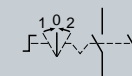
### Selector switches



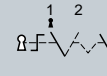
Selector switch - 2 position,  
stay put  
N/O contact



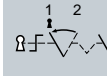
Selector switch - 3 position,  
stay put  
N/O + N/O contact



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

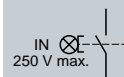


LED pilot light

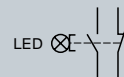


Pilot light with integral transformer, 110/120 V ~ primary,  
6 V secondary BA 9s incandescent bulb

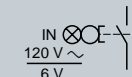
### Illuminated pushbuttons and selector switches



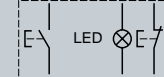
Illuminated pushbutton  
BA 9s incandescent bulb  
N/O + N/C contact



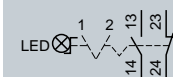
Illuminated pushbutton  
LED  
N/O + N/C contact



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



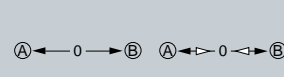
Double-headed pushbutton  
with LED pilot light  
N/O + N/C contact



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

### Joystick controllers

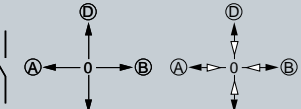
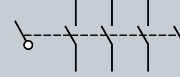
2 direction



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

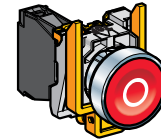
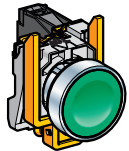
Characteristics :  
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References :  
pages 1/14 to 1/53  
Dimensions :  
pages 1/54 to 1/61

1

## Complete units ready for mounting

## Contact functions

### Pushbuttons, spring return

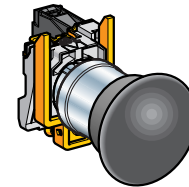
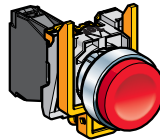


Flush push

[XB4-BA●1/BA42](#)  
[see page 1/14](#)

[XB4-BA3311](#)  
[see page 1/14](#)

[XB4-BA4322](#)  
[see page 1/14](#)

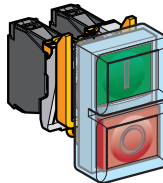
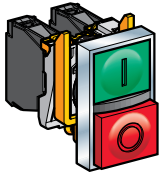


Booted flush push  
[XB4-BP●1/BP42](#)  
[see page 1/14](#)

Projecting push  
[XB4-BL42](#)  
[see page 1/14](#)

Mushroom head  
[XB4-BC21](#)  
[see page 1/14](#)

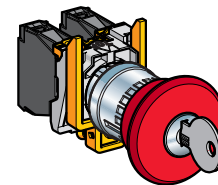
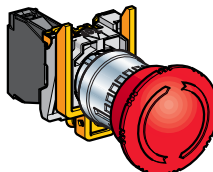
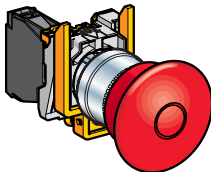
### Double-headed pushbuttons, spring return



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

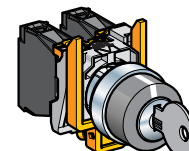
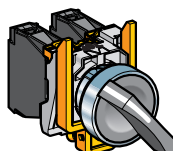
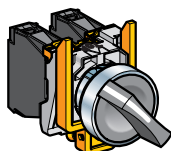


Push-pull  
[XB4-BT42/BT845](#)  
[see page 1/15](#)

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 :  
pages 1/54 to 1/61

Harmony style 4

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

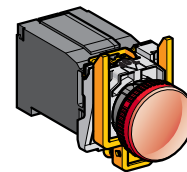
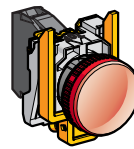
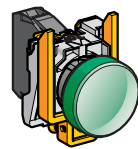
General (continued)

1

## Complete units ready for mounting

### Pilot lights

## Signalling functions



With integral LED

[XB4-BVB/BVG/BVM](#)  
[see page 1/16](#)

For BA 9s bulb  
Direct supply

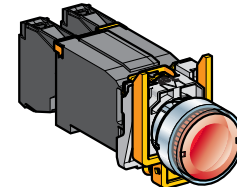
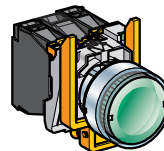
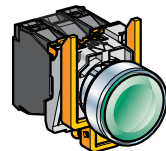
[XB4-BV6](#)  
[see page 1/17](#)

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](#)

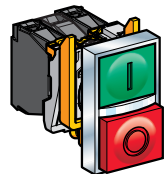
For BA 9s bulb  
Direct supply

[XB4-BW3•65](#)  
[see page 1/18](#)

Via integral transformer

[XB4-BW3•35/BW3•45](#)  
[see page 1/19](#)

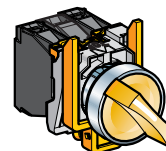
### Double-headed pushbuttons, spring return, with pilot light



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

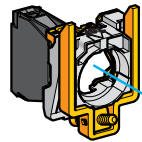
Characteristics :  
pages 1/10 to 1/13  
References :  
pages 1/14 to 1/53  
Dimensions :  
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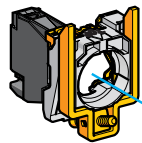
## Non illuminated units for user assembly

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



ZB4-BL83  
ZB4-BL84  
see page 1/23



ZB4-BL93  
ZB4-BL94  
see page 1/23

# Control and signalling units Ø 22

Harmony style 4

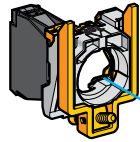
Pushbuttons, switches and pilot lights, with chromium plated metal bezel  
Sub-assemblies, ZB4-B

General (continued)

Characteristics :  
pages 1/10 à 1/13  
References :  
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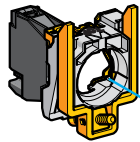
## Non illuminated units for user assembly (continued)

Mushroom head pushbuttons,  
spring return



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

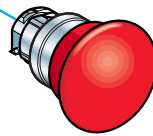
Selector switches  
and key switches

Toggle switches

## Contact functions

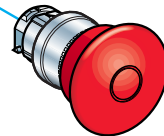
### Body sub-assemblies

### Head sub-assemblies



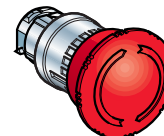
○ ●  
● ●  
● ●  
● ●  
Ø 30  
Ø 40  
Ø 60

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



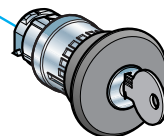
● ●  
● ●  
Ø 40  
Ø 60

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

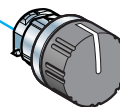
Key release  
**ZB4-BS9●4/BS7●/BS1●/BS2●**  
see page 1/25



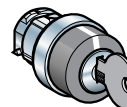
Std. black handle (1)  
**ZB4-BD**  
see page 1/26



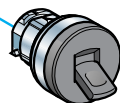
Long blk. handle (1)  
**ZB4-BJ**  
see page 1/26



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



1

# 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)

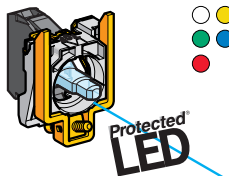
Characteristics :  
pages 1/10 to 1/13  
References :  
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Dimensions :  
pages 1/54 to 1/61

1

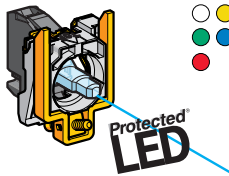
Pilot lights  
for user assembly

## Signalling units

### Body sub-assemblies Integral LED



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

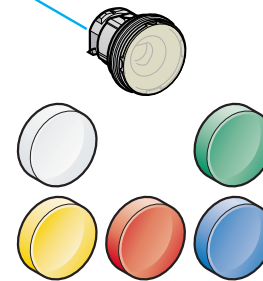


Plug-in connector  
ZB4-BVB•4/BVG•4/BVM•4  
see page 1/28

### Head sub-assemblies



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

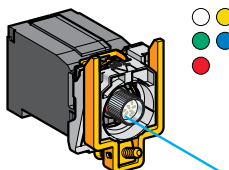


With 5 separate lenses not mounted  
ZB4-BV003  
see page 1/29

### 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

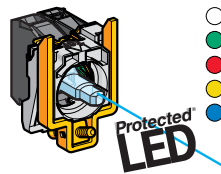
General (continued)

Characteristics :  
pages 1/10 to 1/13  
References :  
pages 1/14 to 1/53  
Dimensions :  
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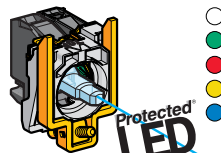
## Illuminated pushbuttons and selector switches for user assembly

Illuminated pushbuttons, spring return

### Body sub-assemblies Integral LED



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



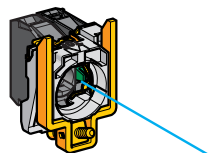
Plug-in connector  
ZB4-BW0B●●4/  
BW0G●●4/BW0M●●4  
see pages 1/32 et 5

Double headed pushbuttons, spring return, with pilot light

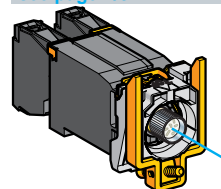
Illuminated "push-push to release" pushbuttons and illuminated selector switches with standard handle

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

Illuminated pushbuttons, spring return



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

## Combined contact and signalling functions

### Head sub-assemblies



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



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



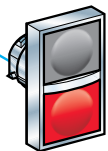
Flush push for insertion  
of legend  
ZB4-BA●8  
see page 1/35



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



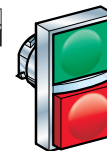
Projecting push  
ZB4-BW1●3  
see page 1/35



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



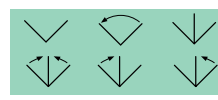
ZB4-BW84●●●3  
see page 1/36



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