

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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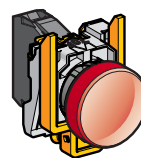
Description

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

Complete units XB4-B

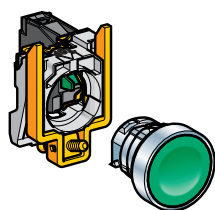


Pushbuttons

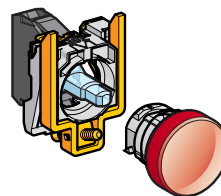


Pilot lights

Sub-assemblies for user assembly ZB4-B

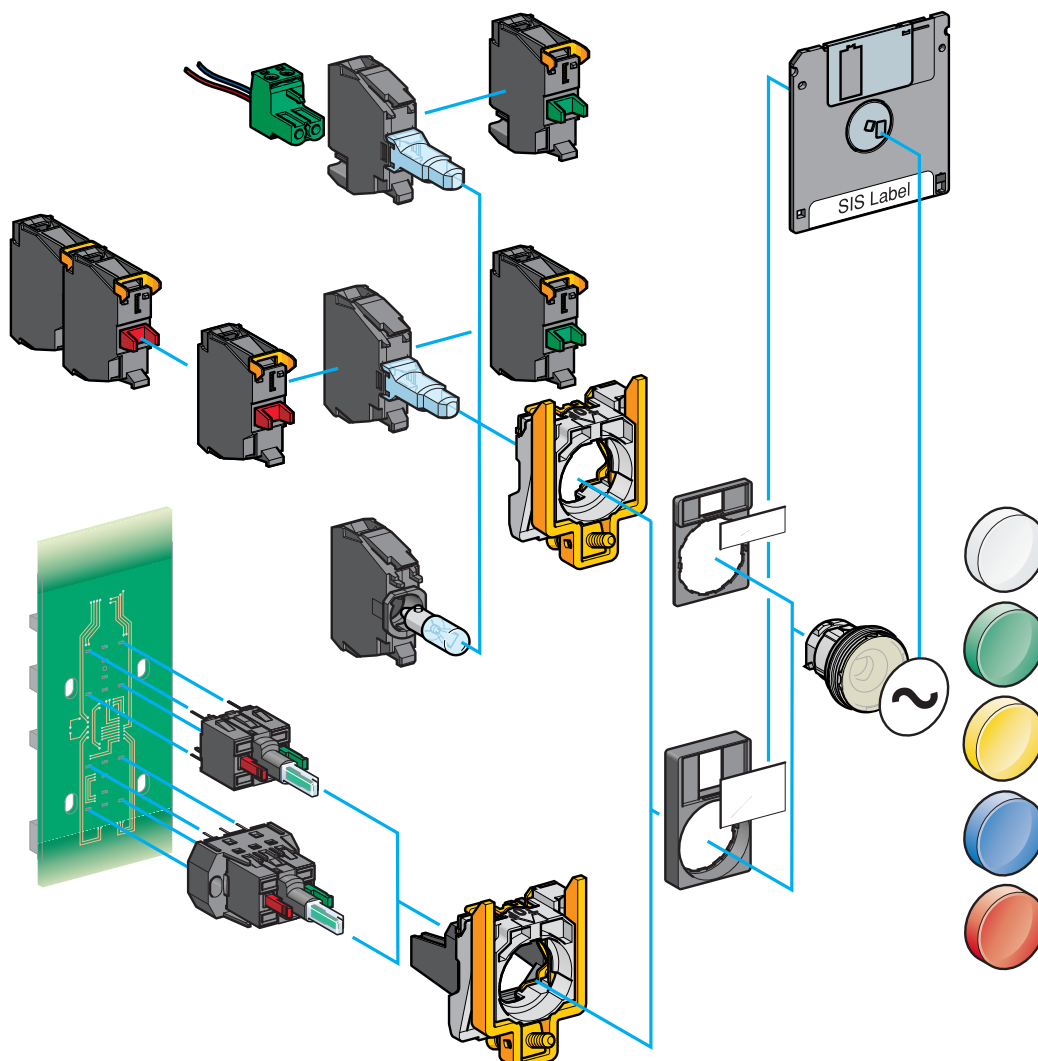


Pushbuttons:
Head and body sub-assemblies



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



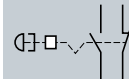
Pushbutton
N/C contact



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



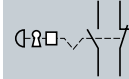
Emergency stop trigger
action mushroom head
Turn to release - N/C contact



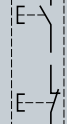
Emergency stop trigger
action mushroom head
Key release - N/C contact



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



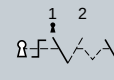
Selector switch - 2 position,
stay put
N/O contact



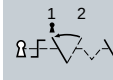
Selector switch - 3 position,
stay put
N/O + N/O contact



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

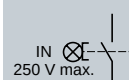


LED pilot light

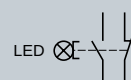


Pilot light with integral transformer, 110/120 V ~ primary,
6 V secondary BA 9s incandescent bulb

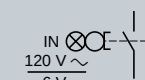
Illuminated pushbuttons and selector switches



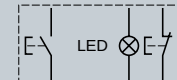
Illuminated pushbutton
BA 9s incandescent bulb
N/O + N/C contact



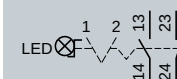
Illuminated pushbutton
LED
N/O + N/C contact



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



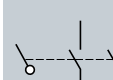
Double-headed pushbutton
with LED pilot light
N/O + N/C contact



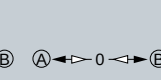
Illuminated selector switch
LED - 2 position stay put
N/O + N/C contact

Joystick controllers

2 direction



Without
spring return

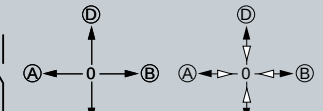


With
spring return

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

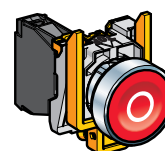
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Complete units ready for mounting

Pushbuttons,
spring return

Contact functions

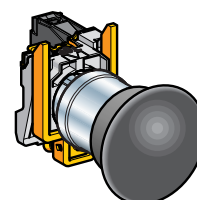
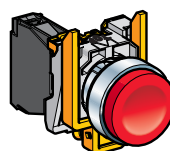


Flush push

[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](#)

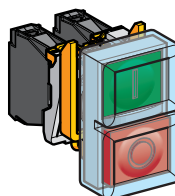
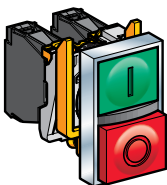
Projecting push

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

Mushroom head

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

Double-headed pushbuttons,
spring return



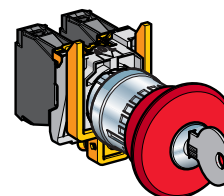
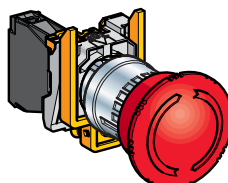
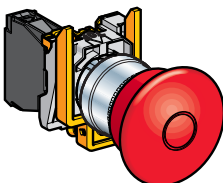
Flush push + projecting push

[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](#)

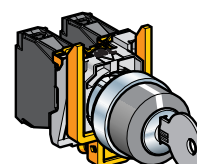
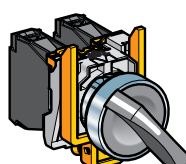
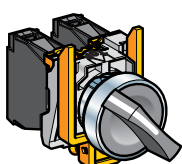
Turn to release

[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

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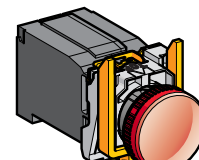
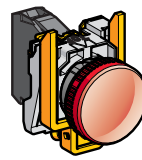
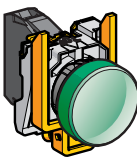
Harmony style 4

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

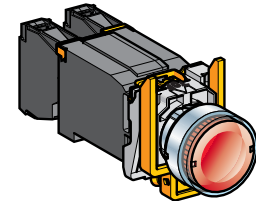
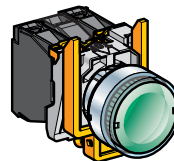
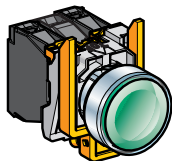
XB4-BV6
see page 1/17

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

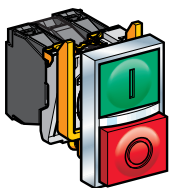
For BA 9s bulb
Direct supply

XB4-BW3•65
see page 1/18

Via integral transformer

XB4-BW3•35/BW3•45
see page 1/19

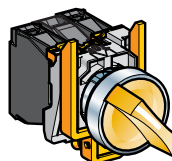
Double-headed pushbuttons, spring return, with pilot light



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

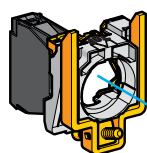
Characteristics :
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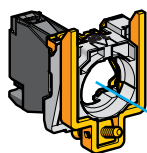
Non illuminated units for user assembly

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



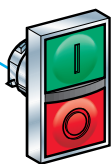
Flush push

ZB4-BH0●
see page 1/22



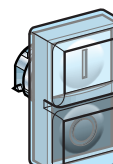
Projecting push

ZB4-BH●
see page 1/22



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

ZB4-BA81
ZB4-BA82
see page 1/23

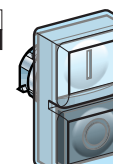


ZB4-BA91
ZB4-BA92
see page 1/23



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

ZB4-BL83
ZB4-BL84
see page 1/23



ZB4-BL93
ZB4-BL94
see page 1/23

Control and signalling units Ø 22

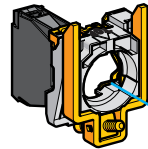
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Harmony style 4
Pushbuttons, switches and pilot lights, with chromium plated metal bezel
Sub-assemblies, ZB4-B

General (continued)

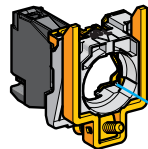
Non illuminated units for user assembly (continued)

Mushroom head pushbuttons, spring return



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

Mushroom head pushbuttons, latching with or without trigger action



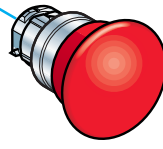
Plug-in connector
ZB4-BZ10●4/BZ1414
see page 1/20

Selector switches and key switches

Contact functions

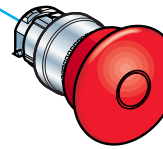
Body sub-assemblies

Head sub-assemblies



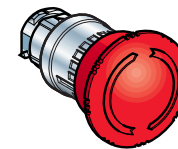
Ø 30
Ø 40
Ø 60

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



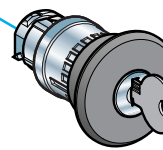
Ø 40
Ø 60

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

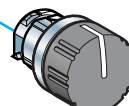
Key release
ZB4-BS9●4/BS7●/BS1●/BS2●
see page 1/25



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



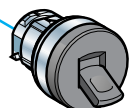
Long blk. handle (1)
ZB4-BJ
see page 1/26



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



Key switches (2)
ZB4-BG
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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)

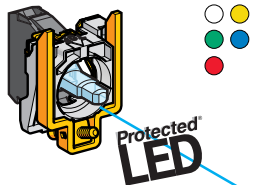
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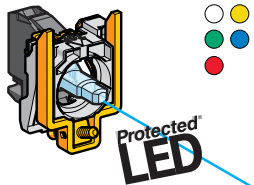
Pilot lights for user assembly

Signalling units

Body sub-assemblies Integral LED



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

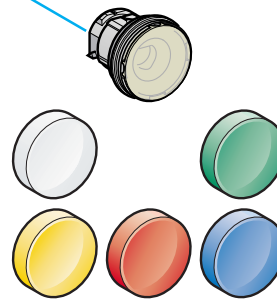


Plug-in connector
ZB4-BVB•4/BVG•4/BVM•4
see page 1/28

Head sub-assemblies



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

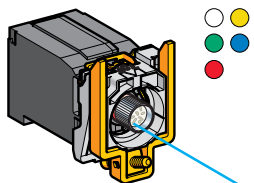


With 5 separate lenses not mounted
ZB4-BV003
see page 1/29

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)

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Illuminated pushbuttons and selector switches for user assembly

Illuminated pushbuttons, spring return

Double headed pushbuttons, spring return, with pilot light

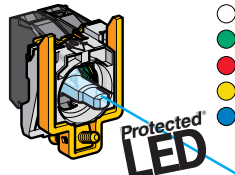
Illuminated "push-push to release" pushbuttons and illuminated selector switches with standard handle

Illuminated pushbuttons, spring return

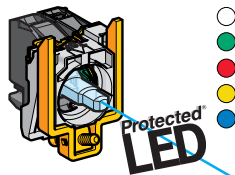
Combined contact and signalling functions

Body sub-assemblies

Integral LED



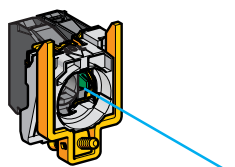
Screw clamp terminals
ZB4-BW0B/BW0G/
BW0M
see pages 1/30 et 3



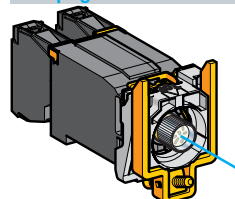
Plug-in connector
ZB4-BW0B●●4/
BW0G●●4/BW0M●●4
see pages 1/32 et 5

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



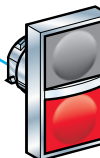
Booted
flush push

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



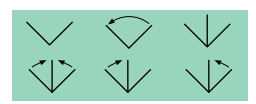
ZB4-BW84●●3
see page 1/36



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



Flush push

ZB4-BW3
see page 1/35



Projecting push

ZB4-BW1
see page 1/35

