

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

1

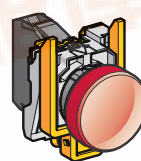
Description

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

Complete units XB4-B

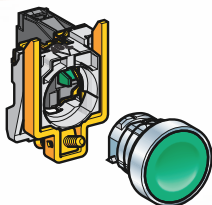


Pushbuttons

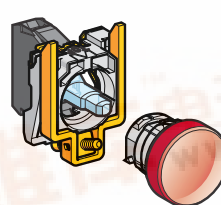


Pilot lights

Sub-assemblies for user assembly ZB4-B

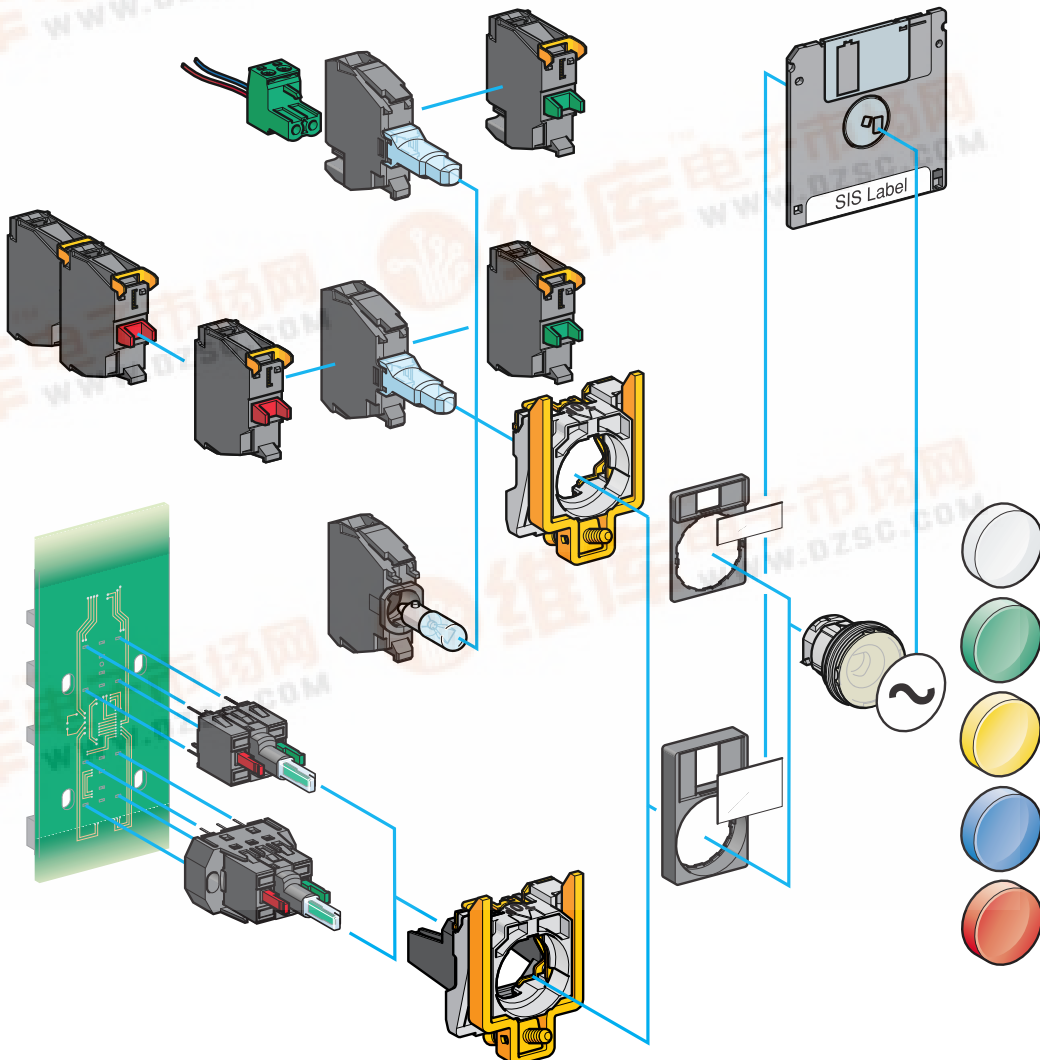


Pushbuttons:
Head and body sub-assemblies



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

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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



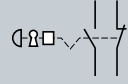
Emergency stop trigger
action mushroom head
Turn to release - N/C contact



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

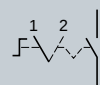


Emergency stop trigger
action mushroom head
Key release
N/O + N/C contact

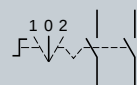


Double headed pushbutton
N/O + N/C contact

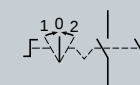
Selector switches



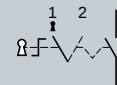
Selector switch - 2 position,
stay put
N/O contact



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



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

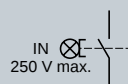


LED pilot light

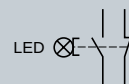


Pilot light with integral transformer, 110/120 V ~ primary,
6 V secondary BA 9s incandescent bulb

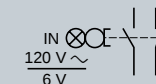
Illuminated pushbuttons and selector switches



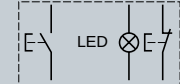
Illuminated pushbutton
BA 9s incandescent bulb
N/O + N/C contact



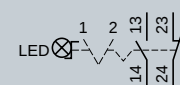
Illuminated pushbutton
LED
N/O + N/C contact



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



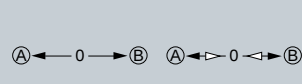
Illuminated selector switch
LED - 2 position stay put
N/O + N/C contact

Joystick controllers

2 direction



Without
spring return

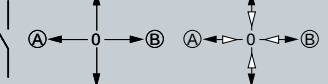


With
spring return

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

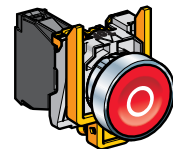
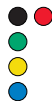
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Complete units
ready for mounting

Contact functions

Pushbuttons,
spring return

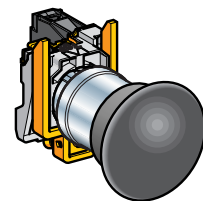
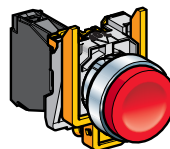


Flush push

[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

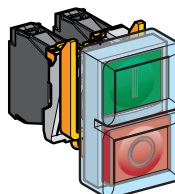
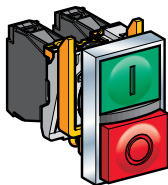
Projecting push

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

Mushroom head

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

Double-headed pushbuttons,
spring return



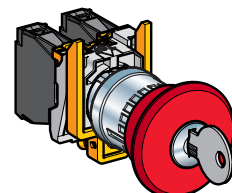
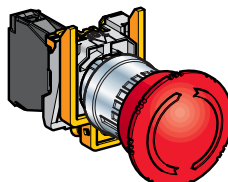
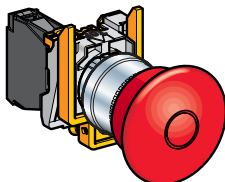
Flush push + projecting push

[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

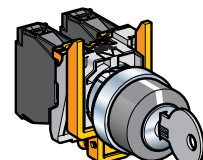
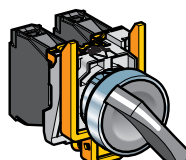
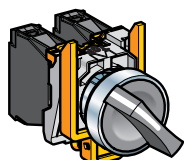
Turn to release

[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

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Harmony style 4

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

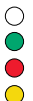
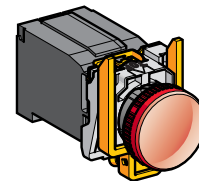
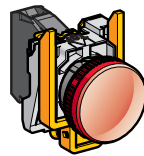
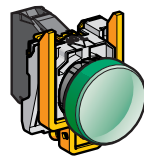
Complete units, XB4-B

General (continued)

Complete units ready for mounting

Pilot lights

Signalling functions



With integral LED

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

For BA 9s bulb
Direct supply

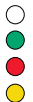
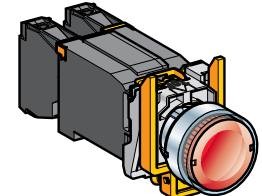
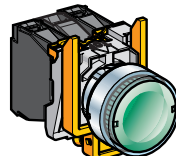
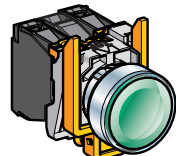
[XB4-BV6](#)
see page 1/17

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

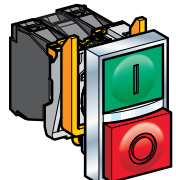
For BA 9s bulb
Direct supply

[XB4-BW3●65](#)
see page 1/18

Via integral transformer

[XB4-BW3●35/BW3●45](#)
see page 1/19

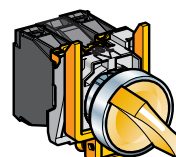
Double-headed pushbuttons, spring return, with pilot light



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

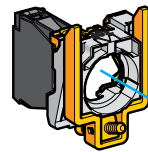
Characteristics :
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1

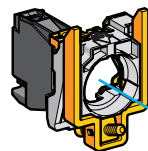
Non illuminated units for user assembly

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



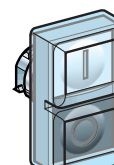
Projecting push

ZB4-BH●
see page 1/22



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

ZB4-BA81
ZB4-BA82
see page 1/23

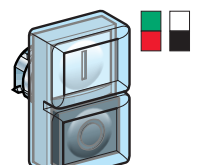


ZB4-BA91
ZB4-BA92
see page 1/23



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

Harmony style 4

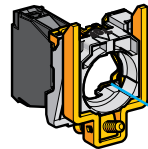
Pushbuttons, switches and pilot lights, with chromium plated metal bezel
Sub-assemblies, ZB4-B

Characteristics :
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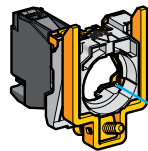
Non illuminated units for user assembly (continued)

Mushroom head pushbuttons,
spring return



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

Mushroom head pushbuttons,
latching
with or without trigger action



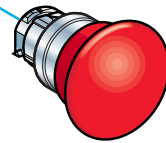
Plug-in connector
ZB4-BZ10●4/BZ1414
see page 1/20

Selector switches
and key switches

Contact functions

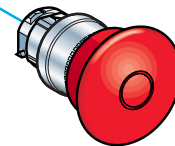
Body sub-assemblies

Head sub-assemblies



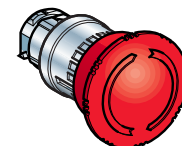
Ø 30
Ø 40
Ø 60

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



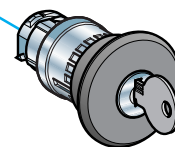
Ø 40
Ø 60

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

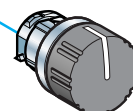
Key release
ZB4-BS9●4/BS7●/BS1●/BS2●
see page 1/25



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



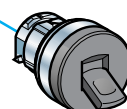
Long blk. handle (1)
ZB4-BJ
see page 1/26



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



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

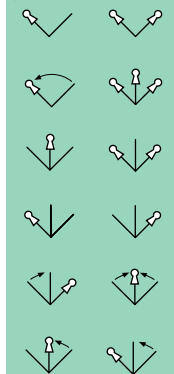


2 positions
ZB4-BD●8
see page 1/52

(1) Switch handle
and knob positions



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



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

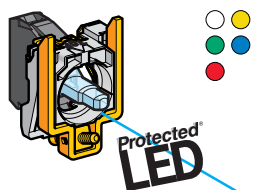
General (continued)

1

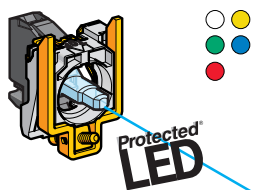
Pilot lights
for user assembly

Signalling units

Body sub-assemblies Integral LED



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

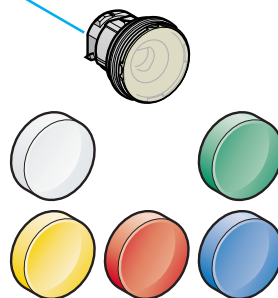


Plug-in connector
ZB4-BVB•4/BVG•4/BVM•4
see page 1/28

Head sub-assemblies



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

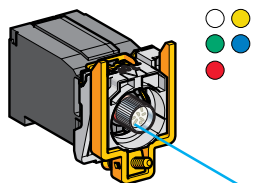


With 5 separate lenses not mounted
ZB4-BV003
see page 1/29

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)

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Illuminated pushbuttons and selector switches for user assembly

Illuminated pushbuttons, spring return

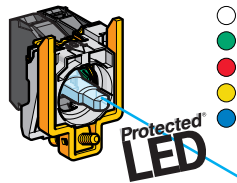
Double headed pushbuttons, spring return, with pilot light

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

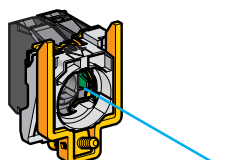


Screw clamp terminals
ZB4-BW0B/0W0G/
BW0M
see pages 1/30 et 3

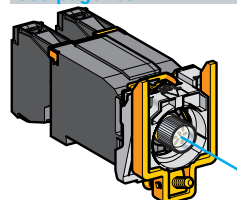


Plug-in connector
ZB4-BW0B/0W0G/
BW0M/0W0M/0W0M/0W0M
see pages 1/32 et 5

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



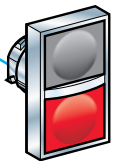
Flush push for insertion
of legend
ZB4-BA/8
see page 1/35



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



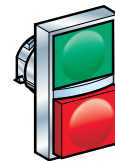
Projecting push
ZB4-BW1/3
see page 1/35



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



ZB4-BW82/3, 3
see page 1/36



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



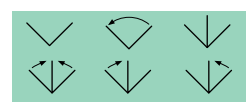
ZB4-BW84/3, 3
see page 1/36



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