Control and signalling units Ø 22

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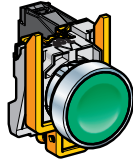Pushbuttons, switches and pilot lights, with chromium plated metal bezel
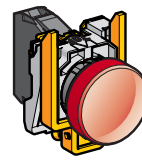
General

1

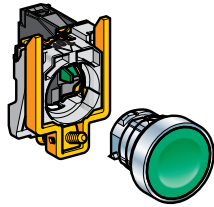| Description | The Ø 22, style 4 range of control and signalling units comprises : |

**Complete units
XB4-B**

Pushbuttons

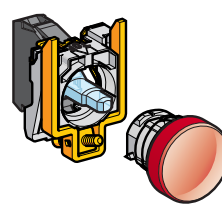
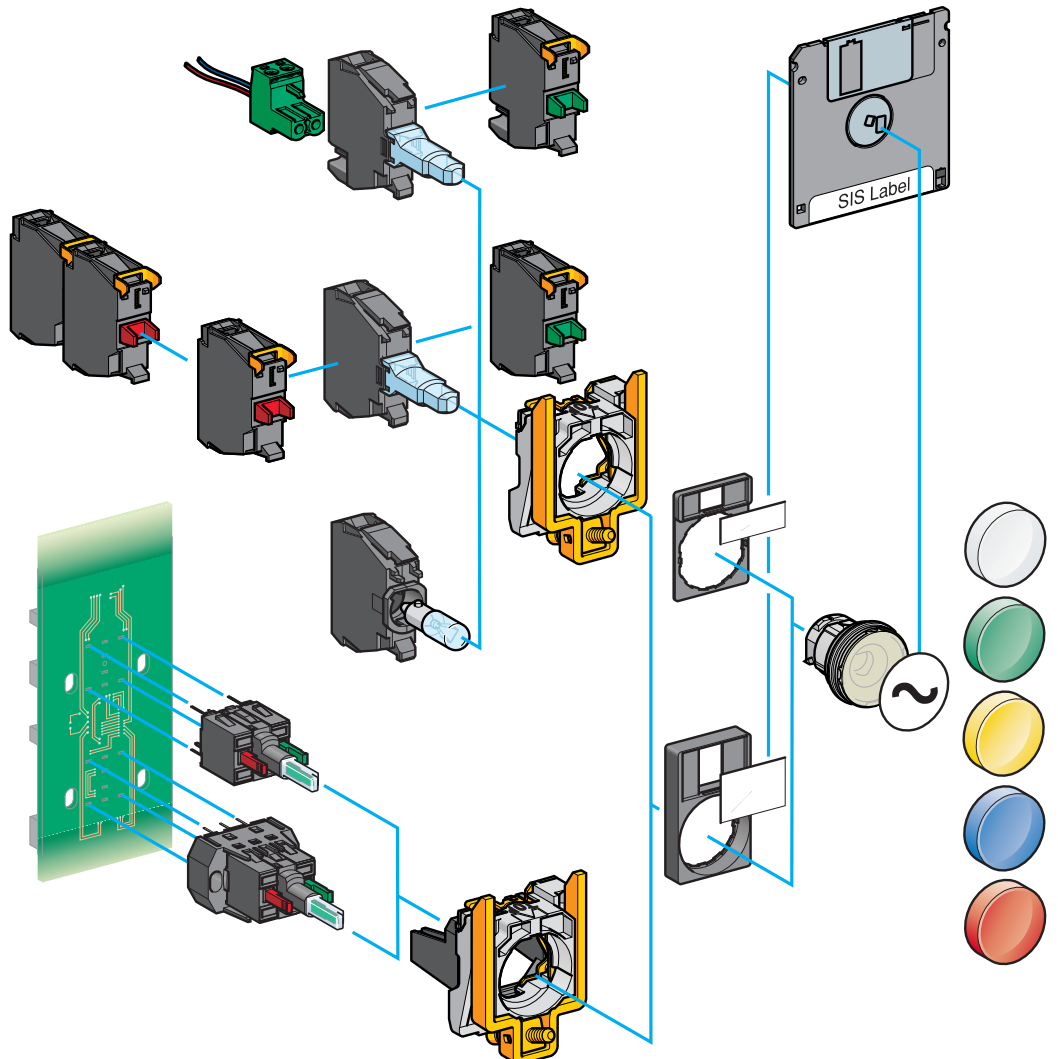
Pilot lights

**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**

SIS Label

Telemecanique

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

General (continued)

1

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

IN

**Pilot light with BA 9s
incandescent bulb**

DEL

LED pilot light

IN $\frac{230\ V \sim}{6\ V}$

**Pilot light with integral transformer, 110/120 V $\sim$ primary,
6 V secondary BA 9s incandescent bulb**

Illuminated pushbuttons and selector switches

IN
250 V max.

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

LED

**Illuminated pushbutton
LED
N/O + N/C contact**

IN $\frac{120\ V \sim}{6\ V}$

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

LED

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

LED

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

Joystick controllers

2 direction

Ⓐ ← 0 → Ⓑ

**Without
spring return**

Ⓐ ← 0 → Ⓑ

**With
spring return**

4 direction

Ⓓ
Ⓐ ← 0 → Ⓑ
Ⓒ

**Without
spring return**

Ⓓ
Ⓐ ← 0 → Ⓑ
Ⓒ

**With spring
return**

Control and signalling units Ø 22

Harmony style 4
Pushbuttons, switches and pilot lights, with chromium plated metal bezel
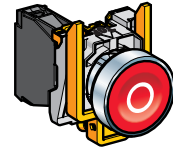Complete units, XB4-B

General

1

Complete units ready for mounting

Contact functions

Pushbuttons, spring return

Flush push		
XB4-BA●1/BA42	XB4-BA3311	XB4-BA4322
see page 1/14	see page 1/14	see page 1/14
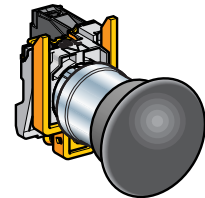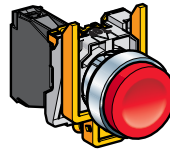
Booted flush push	Projecting push	Mushroom head
XB4-BP●1/BP42	XB4-BL42	XB4-BC21
see page 1/14	see page 1/14	see page 1/14

Double-headed pushbuttons, spring return
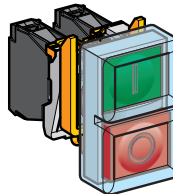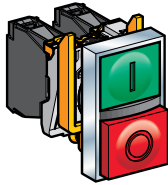
Flush push + projecting push	Booted flush push + projecting push
XB4-BL845	XB4-BL945
see page 1/14	see page 1/14

Ø 40 Emergency stop and mushroom head pushbuttons without/with trigger action
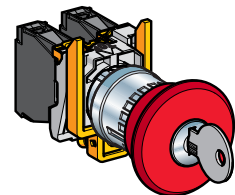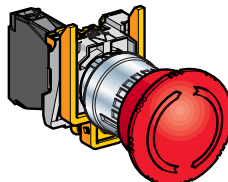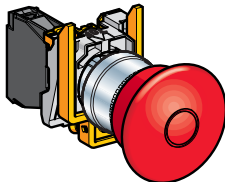
| Push-pull	Turn to release	Key release
XB4-BT42/BT845	XB4-BS542/BS8445	XB4-BS142/BS9445
see page 1/15	see page 1/15	see page 1/15

Selector switches and key switches
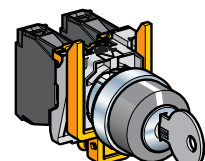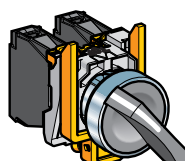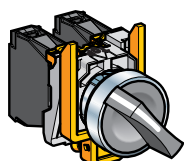
Standard black handle	Long black handle	Key switches
XB4-BD	XB4-BJ	XB4-BG
see page 1/15	see page 1/15	see page 1/15

Ⓣ Telemecanique

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

Signalling functions

Pilot lights
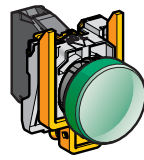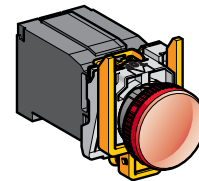
With integral LED	For BA 9s bulb Direct supply	Via integral transformer
XB4-BVB/BVG/BVM **see page 1/16**	**XB4-BV6** **see page 1/17**	**XB4-BV3/BV4** **see page 1/17**

Combined contact and signalling functions
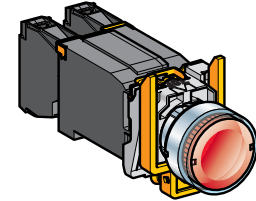
Illuminated pushbuttons, spring return, flush push
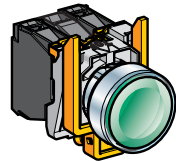
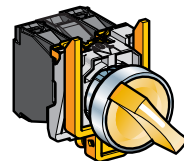| With integral LED	For BA 9s bulb Direct supply	Via integral transformer
XB4-BW3●B5/BW3●G5/BW3●M5 **see page 1/18**	**XB4-BW3●65** **see page 1/18**	**XB4-BW3●35/BW3●45** **see page 1/19**
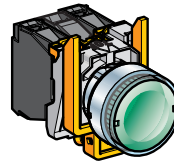
Double-headed pushbuttons, spring return, with pilot light
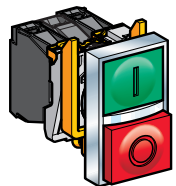
With integral LED
XB4-BW84●5
see page 1/19

Illuminated selector switches, standard handle

With integral LED
XB4-BK12●B5/BK12●G5/BK12●M5
see page 1/19

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

General

1

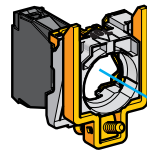| Non illuminated units for user assembly	Contact functions

Body sub-assemblies

Head sub-assemblies

Pushbuttons, spring return, without marking

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

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

Flush push without cap	Flush push with set of 6 colour caps	Flush push	Flush push for insertion of legend
ZB4-BA0 **see page 1/21**	**ZB4-BA9** **see page 1/21**	**ZB4-BA●** **see page 1/21**	**ZB4-BA●8** **see page 1/21**

Projecting push	Recessed push	Booted flush push	Booted flush push for insertion of legend
ZB4-BL● **see page 1/21**	**ZB4-BA●6** **see page 1/21**	**ZB4-BP●** **see page 1/21**	**ZB4-BP●8** **see page 1/21**
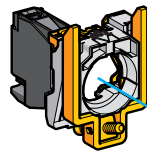
Pushbuttons, spring return, with marking

Flush push	Projecting push
ZB4-BA●3●/●4● **ZB4-BA334/335** **see page 1/22**	**ZB4-BL●3●** **see page 1/22**

"Push-push to release" pushbuttons

Flush push	Projecting push
ZB4-BH0● **see page 1/22**	**ZB4-BH●** **see page 1/22**

Double-headed pushbuttons, spring return

Flush pushes (IP 40/IP 66) Without/with markings		Flush push + projecting push (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**
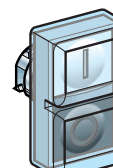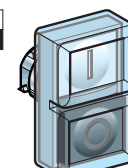
Ⓣ Telemecanique

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

General (continued)

1

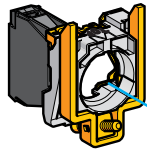## Non illuminated units for user assembly
(continued)

Contact functions

Mushroom head pushbuttons, spring return

Mushroom head pushbutons, latching with or without trigger action
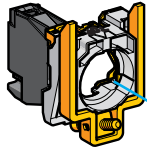
Selector switches and key switches

Toggle switches

Body sub-assemblies

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

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

Head sub-assemblies
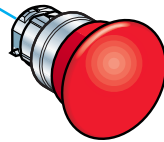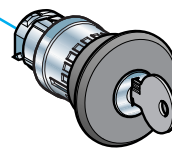
Ø 30
Ø 40
Ø 60

Spring return
ZB4-BC/BR
see page 1/24
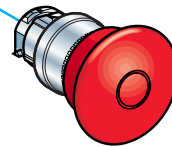
Ø 40
Ø 60

Push-pull
ZB4-BT84 ZB4-BT●/BX●
see page 1/25
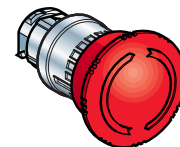
Ø 30
Ø 40
Ø 60

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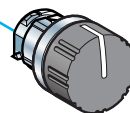**ZB4-BS8●4 ZB4-BS4●/BS5●/BS6●**
see page 1/25

Ø 30
Ø 40
Ø 60

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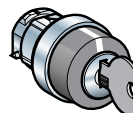**ZB4-BS9●4/BS7●/BS1●/BS2●**
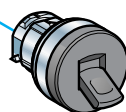**see page 1/25**

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

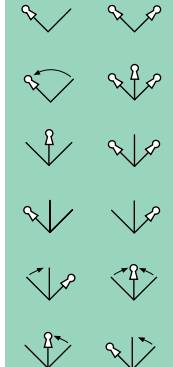Key switches (2)
ZB4-BG
see page 1/27

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

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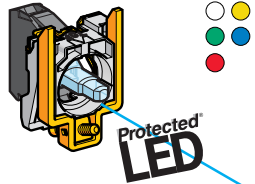
Screw clamp terminals
**ZB4-BVB/BVG/BVM
see page 1/28**

With lens mounted
**ZB4-BV0●3
see page 1/29**
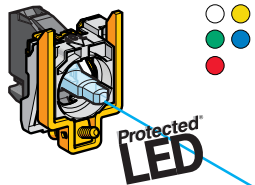
Plug-in connector
**ZB4-BVB●4/BVG●4/BVM●4
see page 1/28**
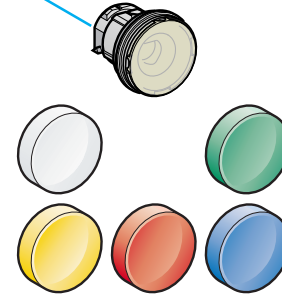
With 5 separate lenses not mounted
**ZB4-BV003
see page 1/29**

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

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

With lens mounted
**ZB4-BV0●
see page 1/29**
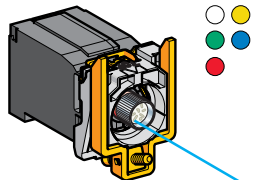
Via integral transformer
Screw clamp terminals
**ZB4-BV●/BV3D● /BV5D●
see page 1/29**

Telemecanique

Control and signalling units Ø 22

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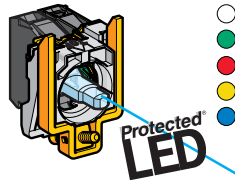
General (continued)

1

Illuminated pushbuttons and selector switches for user assembly

Combined contact and signalling functions

Body sub-assemblies Integral LED

Head sub-assemblies

Illuminated pushbuttons, spring return

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

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

Double headed pushbuttons, spring return, with pilot light
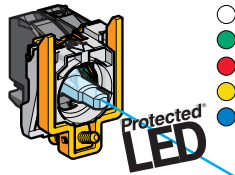
Plug-in connector
ZB4-BW0B●●4/ BW0G●●4/BW0M●●4
see pages 1/32 et 5

Flush pushes
Without/with markings
ZB4-BW81●●●3, see page 1/36
ZB4-BW82●●●3 see page 1/36
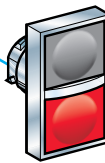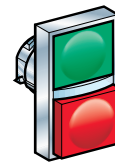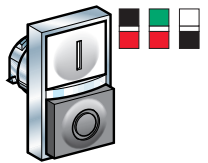
Flush push + projecting push
Without/with markings
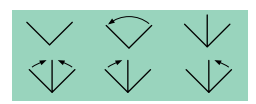**ZB4-BW83●●●3, see page 1/36**
ZB4-BW84●●●3 see page 1/36

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

Flush or projecting push
"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

Body sub-assemblies For BA 9s bulb

Head sub-assemblies

Illuminated pushbuttons, spring return

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

Flush push
ZB4-BW3
see page 1/35

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

Projecting push
ZB4-BW1
see page 1/35