

**Selection guide** ..... page 1/2

## Control and signalling units Ø 8 and 12

■ LED pilot lights, type XVL A ..... page 1/5

## Control and signalling units Ø 16, Harmony® XB6, plastic

■ Complete units and separate heads for :

- Illuminated pushbuttons, spring return, with integral LED ..... page 1/14
- Illuminated pushbuttons, latching, with integral LED ..... page 1/16
- Pilot lights with integral LED ..... page 1/17
- Pushbuttons, spring return ..... page 1/18
- Emergency stop devices ..... page 1/20
- Selector switches with standard handle ..... page 1/21
- Illuminated selector switches ..... page 1/23
- Key switches ..... page 1/25

■ Complete bodies, component parts, spare parts and accessories ..... page 1/28

## Control and signalling units Ø 22, Harmony® XB4, metal

■ Complete units and separate heads for:

- Spring return pushbuttons ..... page 1/62
- Illuminated pushbuttons, spring return:
  - with integral LED ..... page 1/65
  - with BA 9s base fitting ..... page 1/67
- Double-headed pushbuttons, spring return ..... page 1/68
- Mushroom head pushbuttons, spring return type or latching type ... page 1/70
- Emergency stop devices ..... page 1/72
- Emergency switching off devices ..... page 1/73
- Pushbuttons and illuminated pushbuttons, push-push ..... page 1/74
- Pushbuttons, push-turn to release ..... page 1/75
- Selector switches with standard handle or with long handle ..... page 1/76
- Key switches ..... page 1/78
- Illuminator selector switches, with standard handle,
  - with integral LED ..... page 1/80
- Pilot lights:
  - with integral LED ..... page 1/82
  - with BA 9s base fitting ..... page 1/83

■ Specific functions

- Manual overload reset buttons ..... page 1/84
- Heads for potentiometer, hour counters, buzzers and fuse carrier ... page 1/84
- Joystick controllers with screw clamp terminal connections ..... page 1/85

■ Contact functions and light blocks:

- With screw clamp terminal connections ..... page 1/86
- With spring terminal connections ..... page 1/88
- For printed circuit board ..... page 1/89
- With Faston or plug-in connectors ..... page 1/90

■ Complete body/contact assemblies and light blocks:

- With integral LED ..... page 1/92
- With BA 9s base fitting ..... page 1/96

■ Complete light bodies for pilot lights:

- with integral LED ..... page 1/94
- with BA 9s base fitting ..... page 1/97

■ Separate components, accessories and replacement parts. .... page 1/98

■ Joystick controllers with chromium plated metal bezel ..... page 1/123

## Control and signalling units Ø 22, Harmony® XB5, plastic

- Complete units and separate heads for:
  - Spring return pushbuttons ..... page 1/140
  - Illuminated pushbuttons, spring return:
    - with integral LED ..... page 1/145
    - with BA 9s base fitting ..... page 1/147
  - Double-headed pushbuttons, spring return ..... page 1/148
  - Mushroom head pushbuttons, spring return type or latching type .. page 1/150
  - Emergency stop devices ..... page 1/152
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  - Pushbuttons and illuminated pushbuttons, push-push ..... page 1/154
  - Pushbuttons, "push-turn to release" ..... page 1/155
  - Selector switches with standard handle or with long handle ..... page 1/156
  - Key switches ..... page 1/158
  - Illuminator selector switches, with standard handle,
    - with integral LED ..... page 1/160
  - Pilot lights:
    - with integral LED ..... page 1/162
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- Specific functions
  - Manual overload reset buttons ..... page 1/164
  - Heads for potentiometer, hour counters, buzzers and fuse carrier .. page 1/164
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- Contact functions and light blocks:
  - With screw clamp terminal connections ..... page 1/166
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  - For printed circuit board ..... page 1/169
  - With Faston or plug-in connectors ..... page 1/170
- Complete body/contact assemblies and light blocks:
  - With integral LED ..... page 1/172
  - With BA 9s base fitting ..... page 1/176
- Complete light bodies for pilot lights:
  - with integral LED ..... page 1/174
  - with BA 9s base fitting ..... page 1/177
- Separate components, accessories and replacement parts. .... page 1/178
- Joystick controllers with chromium plated metal bezel ..... page 1/123

## Digital display units Ø 22

- Digital display units (sub-assemblies), type ZA2 VA. .... page 1/205


## Control and signalling units Ø 22, Harmony® XB7

- Monolithic pushbuttons, switches and pilot lights, type XB7 E ..... page 1/208

## Control and signalling units Ø 30, Harmony® 9001 K & SK range

- Pushbuttons, switches and pilot lights with
  - chromium plated metal bezel and with screw clamp terminals ..... page 1/220
- Pushbuttons, switches and pilot lights with
  - double insulated bezel and with screw clamp terminals ..... page 1/228
- Separate components, accessories and spare parts ..... page 1/234



Applications		Pilot lights		Pushbuttons, selector switches and pilot lights			
							
Description of the range		<ul style="list-style-type: none"><li>■ LED pilot lights</li><li>■ Pushbuttons</li><li>■ Emergency Stop buttons</li><li>■ Emergency switching off pushbuttons</li><li>■ Selector switches and key switches</li><li>■ Illuminated pushbuttons</li><li>■ Pilot lights</li></ul>					
Features	Products	Monolithic, compact, low consumption			Complete units or sub-assemblies (body + head)		Monolithic
	Bezel	Double insulated			Metal, chromium plated or black	Double insulated	
	Shape of head	Circular	Circular, square or rectangular	Circular	Circular or square	Circular	
Drilling or cut-out for fixing		Ø 8 and Ø 12	Ø 16	Ø 22		Ø 22 and Ø 25	
Degree of protection		Conforming to IEC 60529 and NF C 20-010	IP 40 IP 65 with seal	IP 65	IP 66		IP 54
Cabling		Tags for 2.8 x 0.5 mm connectors, or threaded connector	Faston connectors Solder pins for printed circuit boards	Screw clamp terminal connections Faston connectors Connector With adaptor for printed circuit board			Screw clamp terminal connections
Mounting		Panel thickness	1...8 mm	1...6 mm			
Type references		XVL A	XB6	XB4	XB5	XB7 E	
Pages		1/5	1/14	1/62 to 1/85		1/140 to 1/165 1/208	

Joystick controllers		Digital display units		Pushbuttons, selector switches and pilot lights		Cam switches	
							
<ul style="list-style-type: none"><li>■ 2 or 4 direction</li><li>■ Stay put or spring return</li></ul>		<ul style="list-style-type: none"><li>■ LED display (7 segment + decimal point)</li></ul>		<ul style="list-style-type: none"><li>■ Pushbuttons</li><li>■ Emergency Stop buttons</li><li>■ Emergency switching off pushbuttons</li><li>■ Selector switches and key switches</li><li>■ Illuminated pushbuttons</li><li>■ Pilot lights</li></ul>		<ul style="list-style-type: none"><li>■ Switches</li><li>■ Stepping switches</li><li>■ Reversing and changeover switches</li><li>■ Ammeter switches</li><li>■ Voltmeter switches</li><li>■ Reversing switches</li><li>■ Star-delta and reversing star-delta switches</li><li>■ Pole change switches</li></ul>	
Complete units or sub-assemblies (body + head with lever)		Sub-assemblies (body + single-digit head)		Complete units or sub-assemblies (body + head)		Complete units or sub-assemblies (body + front panel + head)	
Chromium plated metal	Double insulated, black	Double insulated		Chromium plated metal or double insulated		Metal, chromium plated or black Double insulated	
Circular				Hexagonal		Square	
Ø 22				Ø 30		Ø 16 or Ø 22: series K10 Ø 22 and multifixing: series K1/K2 4 holes, 48 or 68 centres: series K30...K150	
IP 65	IP 66	IP 65	IP 65			IP 65: series K10 IP 40, IP 65 with seal: series K1/K2 IP 40: series K30...K150	
Screw and captive cable clamp connections		Connector		Screw and captive cable clamp connections			
1...6 mm		1...5 mm		1...6 mm		0.5...6 mm (depending on model)	
XD4 PA	XD2 GA	XD5 PA	ZA2 VA		9001 K, 9001 SK		K10, K1, K2, K30, K50, K63, K115, K150
1/85	1/123	1/165	1/205		1/220 to 1/233		3/2

#### Presentation

This range of LED pilot lights meets the latest requirements in signalling techniques.

Due to their small size, Ø 8 and Ø 12 fixing pilot lights are particularly suitable for the following applications:

- Mounting on small control panels.
- Shallow depth mounting.
- Where a large number of signalling units are required on a control panel (low power dissipation).

Small diameter LED pilot lights also have sealed front faces (IP 65 option available). An unsealed Ø 8 mm fixing model with protruding LED and black bezel is however also available.

#### Advantages:

LED pilot lights have many advantages:

- Very long life and low maintenance costs (bulb test procedure no longer required),
- Highly resistant to shocks, vibrations, and overvoltage.
- Low power consumption which, for example, allows direct compatibility with programmable controller outputs.
- No sudden failures.

Quick installation assisted by tag connectors suitable for soldered connections on Ø 8 mm pilot lights, or by threaded connectors on Ø 12 mm pilot lights.

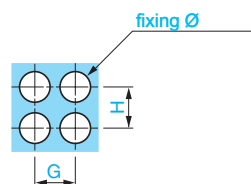
Safe connection due to integral ballast resistor and reverse polarity protection device.

#### Characteristics

<b>Product certifications</b>			UL (Recognized), CSA
<b>Protective treatment</b>	Standard version		"TC"
<b>Ambient air temperature</b>	Operation	°C	- 25...+ 70
	Storage	°C	- 40...+ 70
<b>Electric shock protection</b>	Conforming to IEC 536 and NF C 20-030		Class III
<b>Degree of protection</b>	Conforming to IEC 529 and NF C 20-010		IP 40 (IP 65 with seal)
<b>Current consumption</b>		mA	5 V: 25 12 V: 18 24 V: 18 48 V: 10
<b>Rated insulation voltage</b>	Conforming to IEC 947-1		Ui: 50 V
<b>Service life</b>			≥ 100 000 hours
<b>Voltage limits</b> including ripple (on ---)			0.8 Un ≤ U ≤ 1.1 Un
<b>Terminal referencing</b>			Polarity marked +/-, for Ø 8 pilot lights, the "+" corresponds to the longer tag
<b>Cabling</b>	XVL A1●●, XVL A2●●		Tags for 2.8 x 0.5 Faston connectors, or for soldered connections (dual purpose)
	XVL A3●●		Threaded connectors, capacity: min. 1 x 0.2 mm <sup>2</sup> , max. 1 x 1.5 mm <sup>2</sup>

#### Dimensions

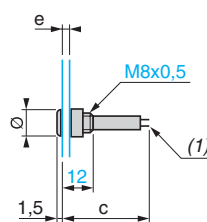
##### Panel drilling



(mm)	Ø min	G min	H min
XVL A1●●	8.2	12.5	12.5
XVL A2●●	8.2	10.5	10.5
XVL A3●●	12.2	16.5	16.5

##### LED pilot lights

##### XVL A1●●, A2●●

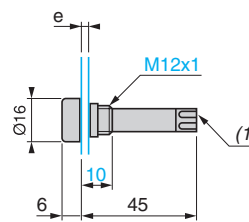


(mm)	c	Ø
XVL A1●●	32	12
XVL A2●●	34	10

e = panel thickness: 1 to 8 mm

(1) Tags for Faston connectors or soldered connections

##### XVL A3●●



e = panel thickness: 1 to 8 mm

(1) Threaded connector

# Control and signalling units

## Ø 8 and 12

### LED pilot lights



XVL A1●●

## References

## Pilot lights with black bezel, protruding LED

Description	Supply voltage	Colour	Reference	Weight kg
Ø 8 mm Degree of protection: <input type="checkbox"/> IP 40 (with integral ballast resistor and reverse polarity protection diode)	5 V	Green	XVL A113	0.003
		Red	XVL A114	0.003
		Yellow	XVL A115	0.003
	12 V	Green	XVL A123	0.003
		Red	XVL A124	0.003
		Yellow	XVL A125	0.003
	24 V	Green	XVL A133	0.003
		Red	XVL A134	0.003
		Yellow	XVL A135	0.003
	48 V	Green	XVL A143	0.003
		Red	XVL A144	0.003
		Yellow	XVL A145	0.003

IP 40 version



XVL A2●●

IP 65 version



XVL A2●● + XVL Z911 (1)

## Pilot lights with integral lens cap, covered LED

Description	Supply voltage	Colour	Reference	Weight kg
Ø 8 mm Degree of protection: <input type="checkbox"/> IP 40 <input type="checkbox"/> IP 65 with seal XVL Z911 (1) (with integral ballast resistor and reverse polarity protection diode)	5 V	Green	XVL A213	0.003
		Red	XVL A214	0.003
		Yellow	XVL A215	0.003
	12 V	Green	XVL A223	0.003
		Red	XVL A224	0.003
		Yellow	XVL A225	0.003
	24 V	Green	XVL A233	0.003
		Red	XVL A234	0.003
		Yellow	XVL A235	0.003
	48 V	Green	XVL A243	0.003
		Red	XVL A244	0.003
		Yellow	XVL A245	0.003

IP 40 version



XVL A3●●

IP 65 version



XVL A3●● + XVL Z912 (1)

Ø 12 mm Degree of protection: <input type="checkbox"/> IP 40 <input type="checkbox"/> IP 65 with seal XVL Z912 (1) (with integral ballast resistor and reverse polarity protection diode)	5 V	Green	XVL A313	0.007
		Red	XVL A314	0.007
		Yellow	XVL A315	0.007
	12 V	Green	XVL A323	0.007
		Red	XVL A324	0.007
		Yellow	XVL A325	0.007
	24 V	Green	XVL A333	0.007
		Red	XVL A334	0.007
		Yellow	XVL A335	0.007
	48 V	Green	XVL A343	0.007
		Red	XVL A344	0.007
		Yellow	XVL A345	0.007

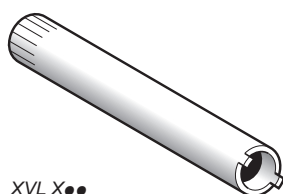
## Separate components

Description	For use with	Sold in lots of	Unit reference	Weight kg
Tightening tools (sold singly)	Ø 8 mm pilot lights	1	XVL X08	0.015
	Ø 12 mm pilot lights	1	XVL X12	0.030
Seals (IP 65)	Ø 8 mm pilot lights	10	XVL Z911	0.001
	Ø 12 mm pilot lights	10	XVL Z912	0.001

## Other versions

Ø 8 and Ø 12 mm LED pilot lights, without resistor, without reverse polarity protection diode (max. direct current: 30 mA  $\overline{\text{---}}$ ).  
Please consult your Regional Sales Office.

(1) To be ordered separately.



XVL X●●

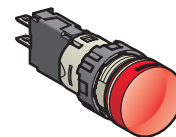
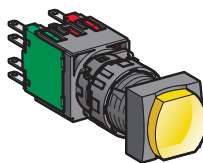
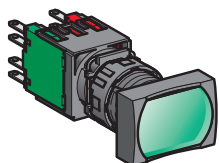


XVL Z91●

## Description

**The Ø 16 range of double insulated control and signalling units comprises:**

**Complete units  
XB6 pushbuttons,  
switches and pilot lights**

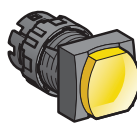
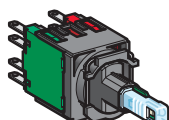


**XB6 D with rectangular head**

**XB6 C with square head**

**XB6 A with circular head**

**Sub-assemblies  
for user assembly  
ZB6 pushbuttons,  
switches and pilot lights  
Body + head sub-assemblies**



### ZB6 D with rectangular head

**ZB6 C with square head**

### ZB6 A with circular head

## ZB component parts and accessories

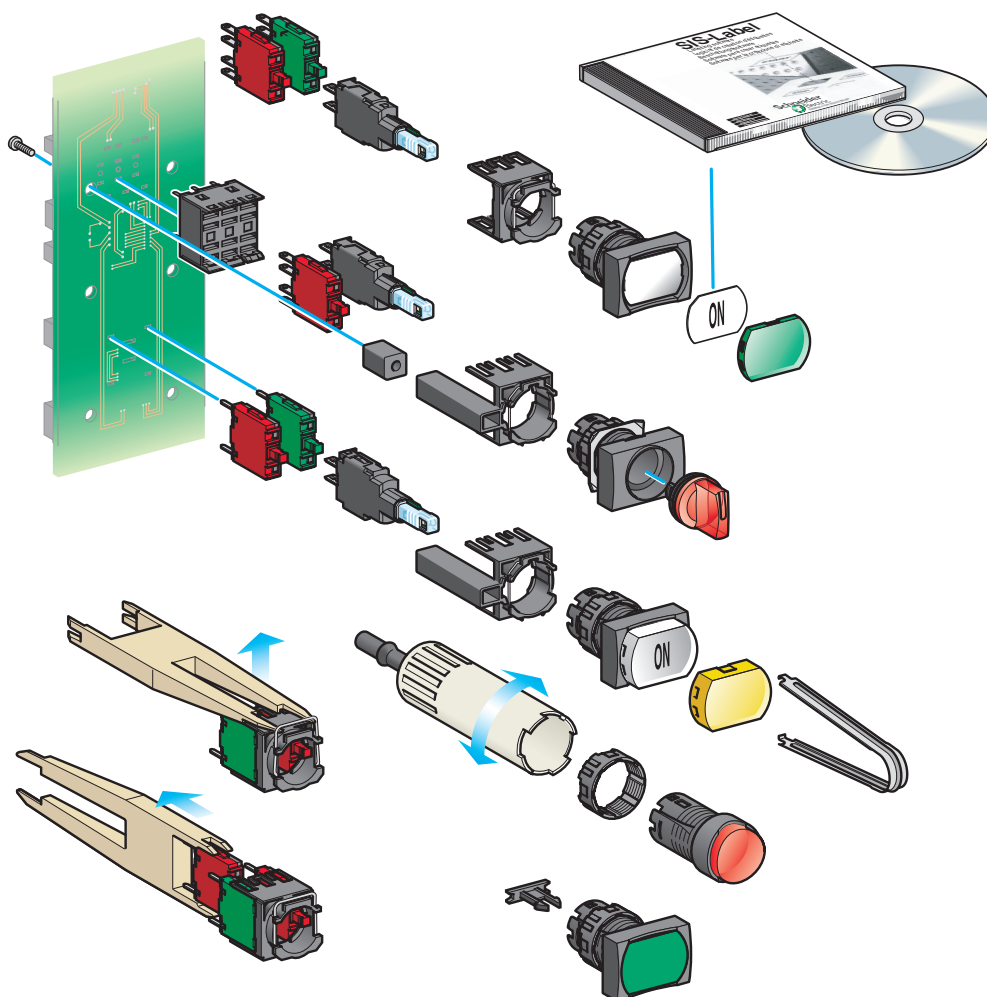
Any of the pushbuttons, switches or pilot lights in the range may be adapted by replacing certain component parts, such as:

## For heads

- Caps or lenses
- Legends
  - Pre-printed legends
  - Special legends produced using labelling software
- Link enabling operation of the 3<sup>rd</sup> contact (cannot be fitted on illuminated pushbuttons)

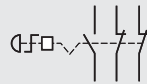
### For bodies

- LED, incandescent and neon bulbs
- N/C or N/O contact blocks, max. 3 contacts per block, with Faston connector or for printed circuit board
- Silver or gold flashed N/C or N/O contact blocks

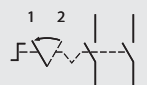


## Schematic library

## Contact functions (pushbuttons and Emergency stop pushbuttons)

Pushbutton  
N/O contactLatching pushbutton  
N/O contactPushbutton  
N/C contactMushroom head spring return  
N/O contactMushroom head Emergency stop  
Turn to release, trigger action  
N/O + 2 N/C contactsMushroom head Emergency stop  
Turn to release, trigger action key  
release  
N/O + 2 N/C contacts

## Contact functions (selector switches)

Selector switch  
2-position stay put  
N/O contactSelector switch  
3-position stay put  
N/O + N/C contactsSelector switch  
3-position  
2 spring return to centreSelector switch  
2-position stay put,  
key withdrawal from both positions  
N/O contactSelector switch  
2-position stay put  
N/O + N/O contacts

## Signalling functions



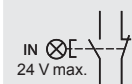
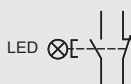
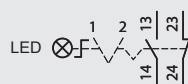
Incandescent or neon pilot light



230 V neon pilot light



## Combined functions, contact + signalling (pushbuttons and selector switches)

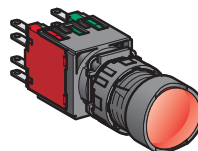
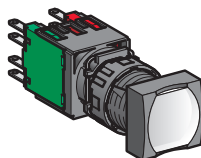
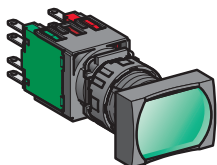
Illuminated pushbutton  
BA 9s incandescent bulb  
N/O + N/C contactsIlluminated pushbutton with LED  
N/O + N/C contactsIlluminated selector switch  
2-position stay put with LED  
N/O + N/C contacts

## Complete units

## Combined functions (contact + signalling)

## Illuminated pushbuttons

## Illuminated pushbuttons with rectangular, square or circular head



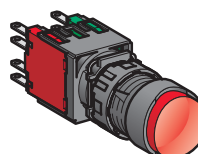
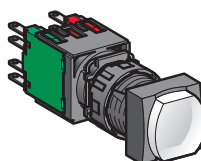
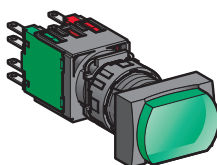
## Head colours

Protected  
LED

## Flush push with integral LED, spring return

XB6 DW●●●●  
see page 1/14XB6 CW●●●●  
see page 1/14XB6 AW●●●●  
see page 1/14Protected  
LED

## Flush push with integral LED, latching

XB6 DF●●●●  
see page 1/16XB6 CF●●●●  
see page 1/16XB6 AF●●●●  
see page 1/16Protected  
LED

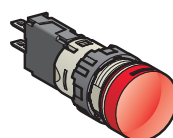
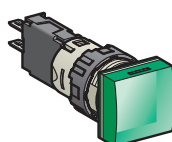
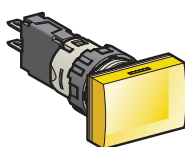
## Projecting push with integral LED, spring return

XB6 DE●●●●  
see page 1/14XB6 CE●●●●  
see page 1/14XB6 AE●●●●  
see page 1/14

## Signalling functions

## Pilot lights

## Pilot lights with rectangular, square or circular head



## Head colours

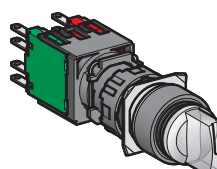
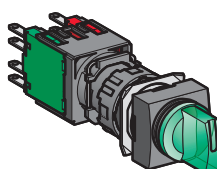
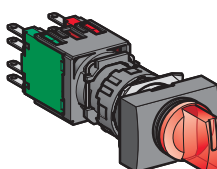
Protected  
LED

## With integral LED

XB6 DV●●●  
see page 1/17XB6 CV●●●  
see page 1/17XB6 AV●●●  
see page 1/17

## Illuminated selector switches

## Illuminated selector switches with rectangular, square or circular head



## Head colours



## With integral LED

XB6 DK●●●●●  
see page 1/23XB6 CK●●●●●  
see page 1/23XB6 AK●●●●●  
see page 1/23

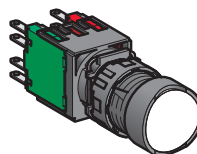
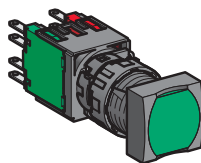
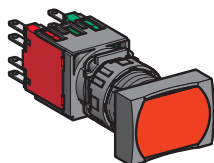


Complete units  
(continued)

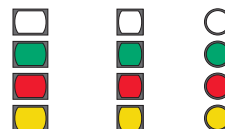
## Contact functions

Pushbuttons,  
spring return

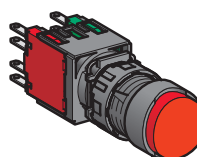
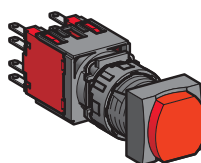
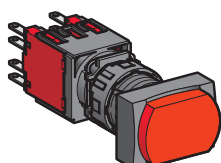
## Pushbuttons with rectangular, square or circular head



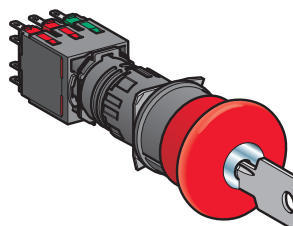
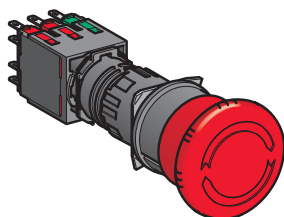
## Head colours



## Flush push

XB6 DA...  
see page 1/18XB6 CA...  
see page 1/18XB6 AA...  
see page 1/18

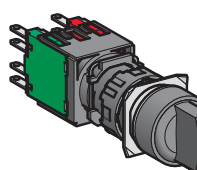
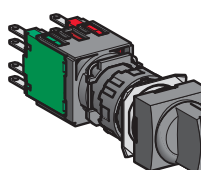
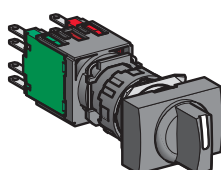
## Projecting push

XB6 DL42B  
see page 1/18XB6 CL42B  
see page 1/18XB6 AL42B  
see page 1/18Mushroom head,  
Emergency stop,  
latching and trigger  
action, Ø 30 pushbuttons

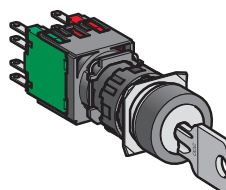
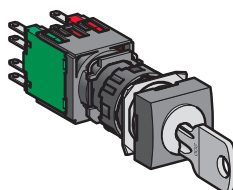
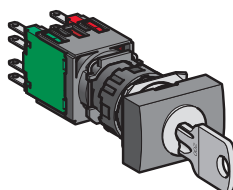
## Turn to release (EN/ISO 13850: 2006)

XB6 AS8349B  
see page 1/20

## Key release (EN/ISO 13850: 2006)

XB6 AS9349B  
see page 1/20Selector switches  
and key switches

## Standard handle operator

XB6 DD...  
see page 1/21XB6 CD...  
see page 1/21XB6 AD...  
see page 1/21

## Key switches

XB6 DG...  
see page 1/25XB6 CG...  
see page 1/25XB6 AG...  
see page 1/25

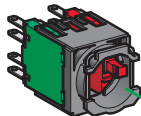




Non illuminated units  
for user assembly

## Contact functions

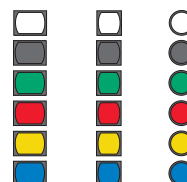
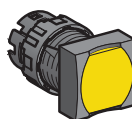
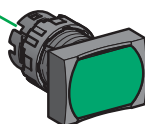
## For pushbuttons

Body  
sub-assembliesDirect supply for  
incandescent bulb

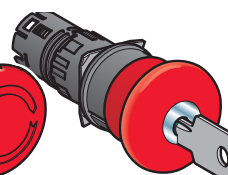
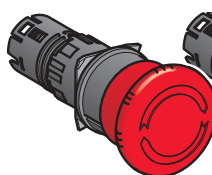
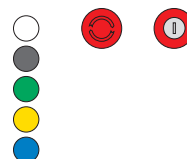
Faston

ZB6 Z●B  
see page 1/28For mushroom head  
pushbuttons and  
Emergency stop headsFor selector switches  
and key switchesHead sub-assemblies,  
rectangular, square or circular

## Head colours



## Flush push, spring return

ZB6 DA●  
p. 1/19ZB6 CA●  
p. 1/19ZB6 AA●  
p. 1/19

## Spring return Ø 24

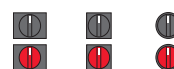
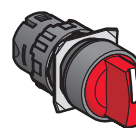
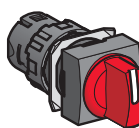
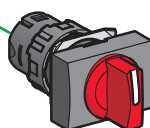
ZB6 AC●  
p. 1/20

## Latching, trigger action Ø 30 (EN/ISO 13850: 2006)

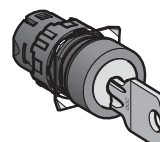
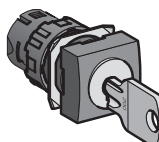
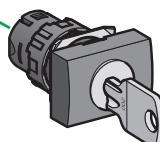
## Turn to release

ZB6 AS834  
p. 1/20

## Key release

ZB6 AS934  
p. 1/20

## Standard handle operator

ZB6 DD●  
p. 1/22ZB6 CD●  
p. 1/22ZB6 AD●  
p. 1/22

## Key switches

ZB6 DG●  
p. 1/25ZB6 CG●  
p. 1/26ZB6 AG●  
p. 1/27

## Environment

Conforming to standards			EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-5 EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action and mechanical latching Emergency stop pushbuttons) JIS C 4520 and 852 UL 508, CSA C22-2 n° 14
Product certifications			UL, CSA, CCC, GOST
Protective treatment standard version			"TC"
Ambient air temperature around the device	Storage	°C	- 40...+ 70
	Operation	°C	- 25...+ 70
Vibration resistance	Conforming to IEC 60068-2-6		(2...500 Hz) 3 mm peak to peak or 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27		Half sine wave 11 ms, 50 gn Half sine wave 18 ms, 30 gn
Electric shock protection	Conforming to IEC 61140		Class II
Degree of protection	Conforming to IEC 60529 Conforming to UL 50 and CSA C22-2 n° 94		IP 65 NEMA type 4, 4X and 13 (except key switches)
Mechanical life (in operating cycles)	Spring return pushbuttons		2 million
	Latching pushbuttons		300 000
	Key switches		200 000
	Selector switches, standard handle		500 000
	Emergency stop mushroom head pushbuttons		100 000
Mounting positions			All positions

## Electrical characteristics of LED pilot lights

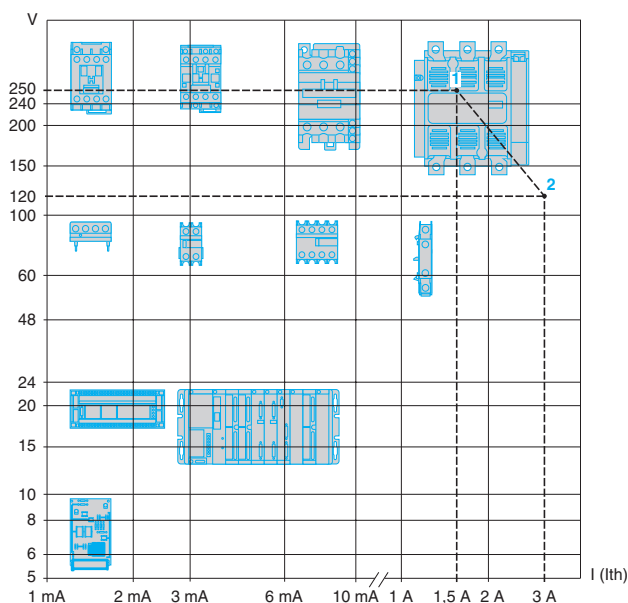
Voltage limits			≈ 12...24 V : 6...30 V ≈ 48...120 V : 40...132 V ≈ 230-240 V : 195...264 V
Current consumption	≈ 24 V	mA	15
Surge withstand	Conforming to IEC 61000-4-5	kV	2 (in free air / 1 (direct contact)
Resistance to fast transients	Conforming to IEC 61000-4-4	kV	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	V/m	10
Resistance to electrostatic discharges	Conforming to IEC 61000-2-6	kV	8/6
Electromagnetic emission	Conforming to IEC 55011		Class B

## Electrical characteristics of contacts

Rated operational characteristics	~ AC-15		B300 or Ue = 240 V and Ie = 1.5 A or Ue 120 V and Ie = 3 A
	--- DC-13		R300 or Ue = 250 V and Ie = 0.1 A or Ue = 125 V and Ie = 0.22 A
Rated insulation voltage	Conforming to EN/IEC 60947-1		Ui = 250 degree of pollution 3 (Except pilot lights with incandescent or neon bulb: degree of pollution 2)

## Electrical characteristics of contacts (continued)

Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	kV	U <sub>imp</sub> = 4
Contact material	Normal environment and usage		Silver alloy
	Chemically corrosive environment or infrequent operation		Gold flashed
Contact operation	N/C or N/O		Slow break, with indication of change of state by the tactile feedback on push and audible signal
Differential travel of contacts	With pushbutton head	mm	Changing N/C state: 1 Changing N/O state: 2 Total travel: 3.5
Operating force	N/C contact	N	2.5
	N/O contact	N	1.6
	Pushbutton head + N/O contact	N	3.5
	Pushbutton head + N/C contact	N	4.5
Positive operation	Conforming to EN/IEC 60947-5-1 appendix K	N	Contact with positive opening operation Positive opening force: 20
Terminal referencing	Conforming to EN 50005 and EN 50013		
Short-circuit protection	Cartridge fuse mounted upstream		6A gG
Electrical reliability	Failure rate Conforming to IEC 60947-5-4		With confidence level of 90 %: $\lambda_{30} = 10^{-8}$ 5 V - 1 mA, defect contact voltage drop = 0.5 V
Cabling		mm	By Faston connectors 2.8 x 0.5 By pins for printed circuit board connection 1 x 0.5
Electrical durability	Conforming to EN/IEC 60947-5-1 Appendix C Utilisation category AC-15 & DC-13 Operating rate 3600 operating cycles/hour. Load factor 0.5		1 million operating cycles - 200 VA-230 V



- 1 Switching capacity conforming to EN/IEC 60947-5-1, utilisation category AC-15, DC-13
- |      |       |       |
|------|-------|-------|
| B300 | 240 V | 1.5 A |
| R300 | 250 V | 0.1 A |
- 2 Switching capacity conforming to EN/IEC 60947-5-1, utilisation category AC-15, DC-13
- |      |       |        |
|------|-------|--------|
| B300 | 120 V | 3 A    |
| R300 | 125 V | 0.22 A |

Assembly of other products, using:  
body/contact assemblies: see pages 1/28 and 1/29  
accessories: see pages 1/30 to 1/39

## Control and signalling units Ø 16

Harmony® XB6, plastic

Illuminated pushbuttons, spring return, with integral LED

1



XB6 DW...B



XB6 CW...B



XB6 AW...B











XB6 DE...B



XB6 CE...B



XB6 AE...B

Illuminated pushbuttons, spring return (with 12...24 V LED included)						
Shape of head	Type of push	Type of contacts		Colour of push	Reference	Weight kg
		 N/O	 N/C			
Complete units						
	Flush	1	—	White	<b>XB6 DW1B1B</b> (ZB6 ZB11B + ZB6 DW1)	0.022
				Green	<b>XB6 DW3B1B</b> (ZB6 ZB31B + ZB6 DW3)	0.022
		—	1	Red	<b>XB6 DW4B2B</b> (ZB6 ZB42B + ZB6 DW4)	0.022
				1	1	White
		Green	<b>XB6 DW3B5B</b> (ZB6 ZB35B + ZB6 DW3)			0.025
		Red	<b>XB6 DW4B5B</b> (ZB6 ZB45B + ZB6 DW4)			0.025
	Flush	1	—	White	<b>XB6 CW1B1B</b> (ZB6 ZB11B + ZB6 CW1)	0.022
				Green	<b>XB6 CW3B1B</b> (ZB6 ZB31B + ZB6 CW3)	0.022
		—	1	Red	<b>XB6 CW4B2B</b> (ZB6 ZB42B + ZB6 CW4)	0.022
				1	1	White
		Green	<b>XB6 CW3B5B</b> (ZB6 ZB35B + ZB6 CW3)			0.025
		Red	<b>XB6 CW4B5B</b> (ZB6 ZB45B + ZB6 CW4)			0.025
	Flush	1	—	White	<b>XB6 AW1B1B</b> (ZB6 ZB11B + ZB6 AW1)	0.022
				Green	<b>XB6 AW3B1B</b> (ZB6 ZB31B + ZB6 AW3)	0.022
		—	1	Red	<b>XB6 AW4B2B</b> (ZB6 ZB42B + ZB6 AW4)	0.022
				1	1	White
		Green	<b>XB6 AW3B5B</b> (ZB6 ZB35B + ZB6 AW3)			0.025
		Red	<b>XB6 AW4B5B</b> (ZB6 ZB45B + ZB6 AW4)			0.025
	Projecting	1	—	Green	<b>XB6 DE3B1B</b> (ZB6 ZB31B + ZB6 DE3)	0.022
				Red	<b>XB6 DE4B2B</b> (ZB6 ZB42B + ZB6 DE4)	0.022
		1	1	White	<b>XB6 DE1B5B</b> (ZB6 ZB15B + ZB6 DE1)	0.025
				Green	<b>XB6 DE3B5B</b> (ZB6 ZB35B + ZB6 DE3)	0.025
				Red	<b>XB6 DE4B5B</b> (ZB6 ZB45B + ZB6 DE4)	0.025
	Projecting	1	—	Green	<b>XB6 CE3B1B</b> (ZB6 ZB31B + ZB6 CE3)	0.022
				Red	<b>XB6 CE4B2B</b> (ZB6 ZB42B + ZB6 CE4)	0.022
		1	1	White	<b>XB6 CE1B5B</b> (ZB6 ZB15B + ZB6 CE1)	0.025
				Green	<b>XB6 CE3B5B</b> (ZB6 ZB35B + ZB6 CE3)	0.025
				Red	<b>XB6 CE4B5B</b> (ZB6 ZB45B + ZB6 CE4)	0.025
	Projecting	1	—	Green	<b>XB6 AE3B1B</b> (ZB6 ZB31B + ZB6 AE3)	0.022
				Red	<b>XB6 AE4B2B</b> (ZB6 ZB42B + ZB6 AE4)	0.022
		1	1	White	<b>XB6 AE1B5B</b> (ZB6 ZB15B + ZB6 AE1)	0.025
				Green	<b>XB6 AE3B5B</b> (ZB6 ZB35B + ZB6 AE3)	0.025
				Red	<b>XB6 AE4B5B</b> (ZB6 ZB45B + ZB6 AE4)	0.025

Assembly of other products, using:  
body/contact assemblies: see pages 1/28 and 1/29







accessories: see pages 1/30 to 1/39

# Control and signalling units Ø 16

Harmony® XB6, plastic

Illuminated pushbuttons, spring return, with integral LED

## Illuminated pushbuttons, spring return (with 12...24 V LED included) (continued)

Shape of head	Type of push	Colour of push	Reference	Weight kg
<b>Heads only</b>				
	Flush	White	ZB6 DW1	0.016
		Green	ZB6 DW3	0.016
		Red	ZB6 DW4	0.016
		Yellow	ZB6 DW5	0.016
		Blue	ZB6 DW6	0.016
		Orange	ZB6 DW8	0.016
		6 colours (1)	ZB6 DW9	0.016
		Without cap (2)	ZB6 DW0	0.016
	Flush	White	ZB6 CW1	0.016
		Green	ZB6 CW3	0.016
		Red	ZB6 CW4	0.016
		Yellow	ZB6 CW5	0.016
		Blue	ZB6 CW6	0.016
		Orange	ZB6 CW8	0.016
		6 colours (1)	ZB6 CW9	0.016
		Without cap (2)	ZB6 CW0	0.016
	Flush	White	ZB6 AW1	0.016
		Green	ZB6 AW3	0.016
		Red	ZB6 AW4	0.016
		Yellow	ZB6 AW5	0.016
		Blue	ZB6 AW6	0.016
		Orange	ZB6 AW8	0.016
		6 colours (1)	ZB6 AW9	0.016
		Without cap (2)	ZB6 AW0	0.016
	Projecting	White	ZB6 DE1	0.016
		Green	ZB6 DE3	0.016
		Red	ZB6 DE4	0.016
		Yellow	ZB6 DE5	0.016
		Blue	ZB6 DE6	0.016
		Orange	ZB6 DE8	0.016
		6 colours (1)	ZB6 DE9	0.016
		Without cap (2)	ZB6 DW0	0.016
	Projecting	White	ZB6 CE1	0.016
		Green	ZB6 CE3	0.016
		Red	ZB6 CE4	0.016
		Yellow	ZB6 CE5	0.016
		Blue	ZB6 CE6	0.016
		Orange	ZB6 CE8	0.016
		6 colours (1)	ZB6 CE9	0.016
		Without cap (2)	ZB6 CW0	0.016
	Projecting	White	ZB6 AE1	0.016
		Green	ZB6 AE3	0.016
		Red	ZB6 AE4	0.016
		Yellow	ZB6 AE5	0.016
		Blue	ZB6 AE6	0.016
		Orange	ZB6 AE8	0.016
		6 colours (1)	ZB6 AE9	0.016
		Without cap (2)	ZB6 AW0	0.016

(1) 6 different coloured caps included with head (white, green, red, yellow, blue and orange), not fitted.

(2) To order caps separately, see pages 1/28 and 1/33.

Assembly of other products, using:  
body/contact assemblies: see pages 1/28 and 1/29

accessories: see pages 1/30 to 1/39

## Control and signalling units Ø 16

Harmony® XB6, plastic

Illuminated pushbuttons, latching, with integral LED

1



XB6 DF●●●B



XB6 CF●●●B



XB6 AF●●●B



ZB6 DF●








ZB6 CF●



ZB6 AF●

## Illuminated pushbuttons, latching (with 12...24 V LED included)

Shape of head	Type of push	Type of contacts		Colour of push	Reference	Weight kg
		 N/O	 N/C			
Complete units						
	Flush	1	–	Green	<b>XB6 DF3B1B</b> (ZB6 ZB31B + ZB6 DF3)	0.022
		–	1	Red	<b>XB6 DF4B2B</b> (ZB6 ZB42B + ZB6 DF4)	0.022
		1	1	White	<b>XB6 DF1B5B</b> (ZB6 ZB15B + ZB6 DF1)	0.025
				Green	<b>XB6 DF3B5B</b> (ZB6 ZB35B + ZB6 DF3)	0.025
				Red	<b>XB6 DF4B5B</b> (ZB6 ZB45B + ZB6 DF4)	0.025
	Flush	1	–	Green	<b>XB6 CF3B1B</b> (ZB6 ZB31B + ZB6 CF3)	0.022
		–	1	Red	<b>XB6 CF4B2B</b> (ZB6 ZB42B + ZB6 CF4)	0.022
		1	1	White	<b>XB6 CF1B5B</b> (ZB6 ZB15B + ZB6 CF1)	0.025
				Green	<b>XB6 CF3B5B</b> (ZB6 ZB35B + ZB6 CF3)	0.025
				Red	<b>XB6 CF4B5B</b> (ZB6 ZB45B + ZB6 CF4)	0.025
	Flush	1	–	Green	<b>XB6 AF3B1B</b> (ZB6 ZB31B + ZB6 AF3)	0.022
		–	1	Red	<b>XB6 AF4B2B</b> (ZB6 ZB42B + ZB6 AF4)	0.022
		1	1	White	<b>XB6 AF1B5B</b> (ZB6 ZB15B + ZB6 AF1)	0.025
				Green	<b>XB6 AF3B5B</b> (ZB6 ZB35B + ZB6 AF3)	0.025
				Red	<b>XB6 AF4B5B</b> (ZB6 ZB45B + ZB6 AF4)	0.025

Shape of head	Type of push	Colour	Reference	Weight kg
<b>Heads only</b>				
	Flush	White	<b>ZB6 DF1</b>	0.016
		Green	<b>ZB6 DF3</b>	0.016
		Red	<b>ZB6 DF4</b>	0.016
		Yellow	<b>ZB6 DF5</b>	0.016
		Blue	<b>ZB6 DF6</b>	0.016
		Orange	<b>ZB6 DF8</b>	0.016
		6 colours (1)	<b>ZB6 DF9</b>	0.016
		Without cap (2)	<b>ZB6 DF0</b>	0.016
	Flush	White	<b>ZB6 CF1</b>	0.016
		Green	<b>ZB6 CF3</b>	0.016
		Red	<b>ZB6 CF4</b>	0.016
		Yellow	<b>ZB6 CF5</b>	0.016
		Blue	<b>ZB6 CF6</b>	0.016
		Orange	<b>ZB6 CF8</b>	0.016
		6 colours (1)	<b>ZB6 CF9</b>	0.016
		Without cap (2)	<b>ZB6 CF0</b>	0.016
	Flush	White	<b>ZB6 AF1</b>	0.016
		Green	<b>ZB6 AF3</b>	0.016
		Red	<b>ZB6 AF4</b>	0.016
		Yellow	<b>ZB6 AF5</b>	0.016
		Blue	<b>ZB6 AF6</b>	0.016
		Orange	<b>ZB6 AF8</b>	0.016
		6 colours (1)	<b>ZB6 AF9</b>	0.016
		Without cap (2)	<b>ZB6 AF0</b>	0.016

(1) 6 different coloured caps included with head (white, green, red, yellow, blue and orange), not fitted.

(2) To order caps separately, see pages 1/30 and 1/33.



Assembly of other products, using:  
body/contact assemblies: see pages 1/28 and 1/29

accessories: see pages 1/30 to 1/39

## Control and signalling units Ø 16

Harmony® XB6, plastic  
Pilot lights with integral LED



XB6 DV●BB



XB6 CV●BB



XB6 AV●BB



ZB6 DV●




ZB6 CV●






ZB6 AV●

## Pilot lights (with 12...24 V LED included)

Shape of head	Colour of lens cap	Reference	Weight kg
<b>Complete units</b>			
	White	<b>XB6 DV1BB</b> (ZB6 EB1B + ZB6 DV1)	0.015
	Green	<b>XB6 DV3BB</b> (ZB6 EB3B + ZB6 DV3)	0.015
	Red	<b>XB6 DV4BB</b> (ZB6 EB4B + ZB6 DV4)	0.015
	Yellow	<b>XB6 DV5BB</b> (ZB6 EB5B + ZB6 DV5)	0.015
	White	<b>XB6 CV1BB</b> (ZB6 EB1B + ZB6 CV1)	0.015
	Green	<b>XB6 CV3BB</b> (ZB6 EB3B + ZB6 CV3)	0.015
	Red	<b>XB6 CV4BB</b> (ZB6 EB4B + ZB6 CV4)	0.015
	Yellow	<b>XB6 CV5BB</b> (ZB6 EB5B + ZB6 CV5)	0.015
	White	<b>XB6 AV1BB</b> (ZB6 EB1B + ZB6 AV1)	0.015
	Green	<b>XB6 AV3BB</b> (ZB6 EB3B + ZB6 AV3)	0.015
	Red	<b>XB6 AV4BB</b> (ZB6 EB4B + ZB6 AV4)	0.015
	Yellow	<b>XB6 AV5BB</b> (ZB6 EB5B + ZB6 AV5)	0.015

## Heads only

	White	<b>ZB6 DV1</b>	0.015
	Green	<b>ZB6 DV3</b>	0.015
	Red	<b>ZB6 DV4</b>	0.015
	Yellow	<b>ZB6 DV5</b>	0.015
	Blue	<b>ZB6 DV6</b>	0.015
	Orange	<b>ZB6 DV8</b>	0.015
	6 colours (1)	<b>ZB6 DV9</b>	0.015
	Without lens cap (2)	<b>ZB6 DV0</b>	0.015
	White	<b>ZB6 CV1</b>	0.015
	Green	<b>ZB6 CV3</b>	0.015
	Red	<b>ZB6 CV4</b>	0.015
	Yellow	<b>ZB6 CV5</b>	0.015
	Blue	<b>ZB6 CV6</b>	0.015
	Orange	<b>ZB6 CV8</b>	0.015
	6 colours (1)	<b>ZB6 CV9</b>	0.015
	Without lens cap (2)	<b>ZB6 CV0</b>	0.015
	White	<b>ZB6 AV1</b>	0.015
	Green	<b>ZB6 AV3</b>	0.015
	Red	<b>ZB6 AV4</b>	0.015
	Yellow	<b>ZB6 AV5</b>	0.015
	Blue	<b>ZB6 AV6</b>	0.015
	Orange	<b>ZB6 AV8</b>	0.015
	6 colours (1)	<b>ZB6 AV9</b>	0.015
	Without lens cap (2)	<b>ZB6 AV0</b>	0.015

(1) 6 different coloured lens caps included with head (white, green, red, yellow, blue and orange), not fitted.

(2) To order lens caps separately, see page 1/30.



## Control and signalling units Ø 16

Harmony® XB6, plastic  
Pushbuttons, spring return

1











XB6 DA●●B







XB6 CA●●B



XB6 AA●●B

Pushbuttons, spring return						
Shape of head	Type of push	Type of contacts		Colour	Reference	Weight kg
						
		N/O	N/C			
Complete units						
	Flush	1	—	White	<b>XB6 DA11B</b> (ZB6 Z1B + ZB6 DA1)	0.019
				Green	<b>XB6 DA31B</b> (ZB6 Z1B + ZB6 DA3)	0.019
		—	1	Black	<b>XB6 DA22B</b> (ZB6 Z2B + ZB6 DA2)	0.019
				Red	<b>XB6 DA42B</b> (ZB6 Z2B + ZB6 DA4)	0.019
		1	1	White	<b>XB6 DA15B</b> (ZB6 Z5B + ZB6 DA1)	0.022
				Black	<b>XB6 DA25B</b> (ZB6 Z5B + ZB6 DA2)	0.022
				Green	<b>XB6 DA35B</b> (ZB6 Z5B + ZB6 DA3)	0.022
				Red	<b>XB6 DA45B</b> (ZB6 Z5B + ZB6 DA4)	0.022
	Flush	1	—	White	<b>XB6 CA11B</b> (ZB6 Z1B + ZB6 CA1)	0.019
				Green	<b>XB6 CA31B</b> (ZB6 Z1B + ZB6 CA3)	0.019
		—	1	Black	<b>XB6 CA22B</b> (ZB6 Z2B + ZB6 CA2)	0.019
				Red	<b>XB6 CA42B</b> (ZB6 Z2B + ZB6 CA4)	0.019
		1	1	White	<b>XB6 CA15B</b> (ZB6 Z5B + ZB6 CA1)	0.022
				Black	<b>XB6 CA25B</b> (ZB6 Z5B + ZB6 CA2)	0.022
				Green	<b>XB6 CA35B</b> (ZB6 Z5B + ZB6 CA3)	0.022
				Red	<b>XB6 CA45B</b> (ZB6 Z5B + ZB6 CA4)	0.022
	Flush	1	—	White	<b>XB6 AA11B</b> (ZB6 Z1B + ZB6 AA1)	0.019
				Green	<b>XB6 AA31B</b> (ZB6 Z1B + ZB6 AA3)	0.019
		—	1	Black	<b>XB6 AA22B</b> (ZB6 Z2B + ZB6 AA2)	0.019
				Red	<b>XB6 AA42B</b> (ZB6 Z2B + ZB6 AA4)	0.019
		1	1	White	<b>XB6 AA15B</b> (ZB6 Z5B + ZB6 AA1)	0.022
				Black	<b>XB6 AA25B</b> (ZB6 Z5B + ZB6 AA2)	0.022
				Green	<b>XB6 AA35B</b> (ZB6 Z5B + ZB6 AA3)	0.022
				Red	<b>XB6 AA45B</b> (ZB6 Z5B + ZB6 AA4)	0.022
	Projecting	—	1	Red	<b>XB6 DL42B</b>	0.020
	Projecting	—	1	Red	<b>XB6 CL42B</b>	0.020
	Projecting	—	1	Red	<b>XB6 AL42B</b>	0.020

## Pushbuttons, spring return (continued)

Shape of head	Type of push	Colour of push	Reference	Weight kg
<b>Heads only</b>				
	Flush	White	<b>ZB6 DA1</b>	0.016
		Black	<b>ZB6 DA2</b>	0.016
		Green	<b>ZB6 DA3</b>	0.016
		Red	<b>ZB6 DA4</b>	0.016
		Yellow	<b>ZB6 DA5</b>	0.016
		Blue	<b>ZB6 DA6</b>	0.016
		6 colours (1)	<b>ZB6 DA9</b>	0.016
		Without cap (2)	<b>ZB6 DA0</b>	0.016
	Flush	White	<b>ZB6 CA1</b>	0.016
		Black	<b>ZB6 CA2</b>	0.016
		Green	<b>ZB6 CA3</b>	0.016
		Red	<b>ZB6 CA4</b>	0.016
		Yellow	<b>ZB6 CA5</b>	0.016
		Blue	<b>ZB6 CA6</b>	0.016
		6 colours (1)	<b>ZB6 CA9</b>	0.016
		Without cap (2)	<b>ZB6 CA0</b>	0.016
	Flush	White	<b>ZB6 AA1</b>	0.016
		Black	<b>ZB6 AA2</b>	0.016
		Green	<b>ZB6 AA3</b>	0.016
		Red	<b>ZB6 AA4</b>	0.016
		Yellow	<b>ZB6 AA5</b>	0.016
		Blue	<b>ZB6 AA6</b>	0.016
		6 colours (1)	<b>ZB6 AA9</b>	0.016
		Without cap (2)	<b>ZB6 AA0</b>	0.016
	Ø 24 mm mushroom head	White	<b>ZB6 AC1</b>	0,020
		Black	<b>ZB6 AC2</b>	0,020
		Green	<b>ZB6 AC3</b>	0,020
		Yellow	<b>ZB6 AC5</b>	0,020
		Blue	<b>ZB6 AC6</b>	0,020

(1) 6 different coloured caps included with head (white, black, green, red, yellow and blue), not fitted.

(2) To order caps separately, see pages 1/30 and 1/33.







Assembly of other products, using:  
body/contact assemblies: see pages 1/28 and 1/29  
accessories: see pages 1/30 to 1/39

# Control and signalling units Ø 16

Harmony® XB6, plastic  
Emergency stop devices  
Conforming to EN/IEC 60204-1 and  
EN/ISO 13850: 2006 and Machinery Directive 98/37/EC

1

Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Emergency stop trigger action and mechanical latching pushbuttons							
Shape of head	Type of reset	Type of contacts		Diameter of push mm	Colour	Reference	Weight kg
		 N/O	 N/C				
Complete units							
	Turn to release	1	2	30	Red	<b>XB6 AS8349B</b> (ZB6 Z4B + ZB6 AS834)	0.041
	Key release (key n° 200)	1	2	30	Red	<b>XB6 AS9349B</b> (ZB6 Z4B + ZB6 AS934)	0.056
Shape of head	Type of reset			Diameter of push mm	Colour of cap	Reference	Weight kg
Heads only							
	Turn to release			30	Red	<b>ZB6 AS834</b>	0.035
	Key release (key n° 200)			30	Red	<b>ZB6 AS934</b>	0.050

















XB6 DD●●●B



XB6 CD●●●B



XB6 AD●●●B

Selector switches with standard handle (switching angle: 60°)						
Shape of head	Colour of handle	Type of contacts		Number and type of positions	Reference	Weight kg
		 N/O	 N/C			
Complete units						
	Black	1	—	2 - stay put	 <b>XB6 DD221B</b> (ZB6 Z1B + ZB6 DD22)	0.021
		1	1	2 - stay put	 <b>XB6 DD225B</b> (ZB6 Z5B + ZB6 DD22)	0.024
				3 - stay put	 <b>XB6 DD235B</b> (ZB6 Z5B + ZB6 DD23)	0.024
	Black	1	—	2 - stay put	 <b>XB6 CD221B</b> (ZB6 Z1B + ZB6 CD22)	0.021
		1	1	2 - stay put	 <b>XB6 CD225B</b> (ZB6 Z5B + ZB6 CD22)	0.024
				3 - stay put	 <b>XB6 CD235B</b> (ZB6 Z5B + ZB6 CD23)	0.024
	Black	1	—	2 - stay put	 <b>XB6 AD221B</b> (ZB6 Z1B + ZB6 AD22)	0.021
		1	1	2 - stay put	 <b>XB6 AD225B</b> (ZB6 Z5B + ZB6 AD22)	0.024
				3 - stay put	 <b>XB6 AD235B</b> (ZB6 Z5B + ZB6 AD23)	0.024

Assembly of other products, using:  
body/contact assemblies: see pages 1/28 and 1/29

accessories: see pages 1/30 to 1/39

## Control and signalling units Ø 16

Harmony® XB6, plastic

Selector switches with standard handle

1



ZB6 DD●●

## Selector switches with standard handle (continued)

Shape of head	Number and type of positions	Colour of handle	Reference	Weight kg
Heads only (switching angle: stay put positions 60°, spring return positions 45°)				
	2 - stay put	Black	ZB6 DD22	0.018
		Red	ZB6 DD42	0.018
	3 - stay put	Black	ZB6 DD23	0.018
		Red	ZB6 DD43	0.018
	2 - spring return to centre	Black	ZB6 DD24	0.018
		Red	ZB6 DD44	0.018
	3 - spring return to centre	Black	ZB6 DD25	0.018
		Red	ZB6 DD45	0.018
	3 - spring return from right to centre	Black	ZB6 DD26	0.018
		Red	ZB6 DD46	0.018
	3 - spring return from left to centre	Black	ZB6 DD27	0.018
		Red	ZB6 DD47	0.018



ZB6 CD●●

	2 - stay put	Black	ZB6 CD22	0.018
		Red	ZB6 CD42	0.018
	3 - stay put	Black	ZB6 CD23	0.018
		Red	ZB6 CD43	0.018
	2 - spring return to centre	Black	ZB6 CD24	0.018
		Red	ZB6 CD44	0.018
	3 - spring return to centre	Black	ZB6 CD25	0.018
		Red	ZB6 CD45	0.018
	3 - spring return from right to centre	Black	ZB6 CD26	0.018
		Red	ZB6 CD46	0.018
	3 - spring return from left to centre	Black	ZB6 CD27	0.018
		Red	ZB6 CD47	0.018



ZB6 AD●●

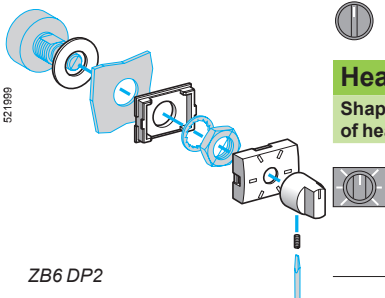
	2 - stay put	Black	ZB6 AD22	0.018
		Red	ZB6 AD42	0.018
	3 - stay put	Black	ZB6 AD23	0.018
		Red	ZB6 AD43	0.018
	2 - spring return to centre	Black	ZB6 AD24	0.018
		Red	ZB6 AD44	0.018
	3 - spring return to centre	Black	ZB6 AD25	0.018
		Red	ZB6 AD45	0.018
	3 - spring return from right to centre	Black	ZB6 AD26	0.018
		Red	ZB6 AD46	0.018
	3 - spring return from left to centre	Black	ZB6 AD27	0.018
		Red	ZB6 AD47	0.018

## Heads only (switching angle: stay put positions 90°)

	2 - stay put	Black	ZB6 DD28	0.018
		Red	ZB6 DD48	0.018
	2 - stay put	Black	ZB6 CD28	0.018
		Red	ZB6 CD48	0.018
	2 - stay put	Black	ZB6 AD28	0.018
		Red	ZB6 AD48	0.018









## Heads + mounting base for potentiometer

Shape of head	Description	For use with	Reference	Weight kg
	For potentiometer with shaft length 5...8 mm (potentiometer not included)	Ø 6.35 mm shaft	ZB6 DP2	0.032



ZB6 DP2

## Illuminated selector switches (with 12...24 V LED included) ▲

Shape of head	Colour of push	Type of contacts		Number and type of positions	Reference (1)	Weight kg
						
		N/O	N/C			
<b>Complete units (switching angle: stay put positions 60°)</b>						
	White	1	1	2 - stay put	<b>XB6 DK1B25B</b> (ZB6 YK1 + ZB6 DD02 + ZB6 ZB15B)	0.024
	Green	1	1	2 - stay put	<b>XB6 DK3B25B</b> (ZB6 YK3 + ZB6 DD02 + ZB6 ZB35B)	0.024
	Red	1	1	2 - stay put	<b>XB6 DK4B25B</b> (ZB6 YK4 + ZB6 DD02 + ZB6 ZB45B)	0.024
	White	1	1	3 - stay put	<b>XB6 DK1B35B</b> (ZB6 YK1 + ZB6 DD03 + ZB6 ZB15B)	0.024
	Green	1	1	3 - stay put	<b>XB6 DK3B35B</b> (ZB6 YK3 + ZB6 DD03 + ZB6 ZB35B)	0.024
	Red	1	1	3 - stay put	<b>XB6 DK4B35B</b> (ZB6 YK4 + ZB6 DD03 + ZB6 ZB45B)	0.024
	White	1	1	2 - stay put	<b>XB6 CK1B25B</b> (ZB6 YK1 + ZB6 CD02 + ZB6 ZB15B)	0.024
	Green	1	1	2 - stay put	<b>XB6 CK3B25B</b> (ZB6 YK3 + ZB6 CD02 + ZB6 ZB35B)	0.024
	Red	1	1	2 - stay put	<b>XB6 CK4B25B</b> (ZB6 YK4 + ZB6 CD02 + ZB6 ZB45B)	0.024
	White	1	1	3 - stay put	<b>XB6 CK1B35B</b> (ZB6 YK1 + ZB6 CD03 + ZB6 ZB15B)	0.024
	Green	1	1	3 - stay put	<b>XB6 CK3B35B</b> (ZB6 YK3 + ZB6 CD03 + ZB6 ZB35B)	0.024
	Red	1	1	3 - stay put	<b>XB6 CK4B35B</b> (ZB6 YK4 + ZB6 CD03 + ZB6 ZB45B)	0.024
	White	1	1	2 - stay put	<b>XB6 AK1B25B</b> (ZB6 YK1 + ZB6 AD02 + ZB6 ZB15B)	0.024
	Green	1	1	2 - stay put	<b>XB6 AK3B25B</b> (ZB6 YK3 + ZB6 AD02 + ZB6 ZB35B)	0.024
	Red	1	1	2 - stay put	<b>XB6 AK4B25B</b> (ZB6 YK4 + ZB6 AD02 + ZB6 ZB45B)	0.024
	White	1	1	3 - stay put	<b>XB6 AK1B35B</b> (ZB6 YK1 + ZB6 AD03 + ZB6 ZB15B)	0.024
	Green	1	1	3 - stay put	<b>XB6 AK3B35B</b> (ZB6 YK3 + ZB6 AD03 + ZB6 ZB35B)	0.024
	Red	1	1	3 - stay put	<b>XB6 AK4B35B</b> (ZB6 YK4 + ZB6 AD03 + ZB6 ZB45B)	0.024
<b>Complete units (switching angle: stay put positions 90°)</b>						
	White	1	1	2 - stay put	<b>XB6 DK1B85B</b> (ZB6 YK1 + ZB6 CD03 + ZB6 ZB15B)	0.024
	Green	1	1	2 - stay put	<b>XB6 DK3B85B</b> (ZB6 YK3 + ZB6 DD08 + ZB6 ZB35B)	0.024
	Red	1	1	2 - stay put	<b>XB6 DK4B85B</b> (ZB6 YK4 + ZB6 DD08 + ZB6 ZB45B)	0.024
	White	1	1	2 - stay put	<b>XB6 CK1B85B</b> (ZB6 YK1 + ZB6 CD08 + ZB6 ZB15B)	0.024
	Green	1	1	2 - stay put	<b>XB6 CK3B85B</b> (ZB6 YK3 + ZB6 CD08 + ZB6 ZB35B)	0.024
	Red	1	1	2 - stay put	<b>XB6 CK4B85B</b> (ZB6 YK4 + ZB6 CD08 + ZB6 ZB45B)	0.024
	White	1	1	2 - stay put	<b>XB6 AK1B85B</b> (ZB6 YK1 + ZB6 AD08 + ZB6 ZB15B)	0.024
	Green	1	1	2 - stay put	<b>XB6 AK3B85B</b> (ZB6 YK3 + ZB6 AD08 + ZB6 ZB35B)	0.024
	Red	1	1	2 - stay put	<b>XB6 AK4B85B</b> (ZB6 YK4 + ZB6 AD08 + ZB6 ZB45B)	0.024

(1) The reference of the complete selector switch is shown on the 1<sup>st</sup> line. The references of handles + heads + bodies are shown in brackets below.

▲ Available: 1<sup>st</sup> half 2008

Assembly of other products, using:  
body/contact assemblies: see pages 1/28 and 1/29  
accessories: see pages 1/30 to 1/39

# Control and signalling units Ø 16

Harmony® XB6, plastic

Illuminated and non illuminated selector switches

1



ZB6 YK●



ZB6 DD0●



ZB6 CD0●



ZB6 AD0●

## Handles

Description	Colour	Sold in lots of	Unit reference	Weight kg
<b>Component parts</b>				
Handles for illuminated selector switches (1)	White	5	ZB6 YK1	0.002
	Green	5	ZB6 YK3	0.002
	Red	5	ZB6 YK4	0.002
	Yellow	5	ZB6 YK5	0.002
	Blue	5	ZB6 YK6	0.002
	Orange	5	ZB6 YK8	0.002
<b>Replacement parts</b>				
Handles for non illuminated selector switches (2)	Black	1	ZB6 YD2	0.002
	Red	1	ZB6 YD4	0.002

## Heads for selector switches, without handle (3)

Shape of head	Number and type of positions	Reference	Weight kg
<b>Heads only (switching angle: stay put positions 60°, spring return positions 45°)</b>			
	2 - stay put	ZB6 DD02	0.016
	3 - stay put	ZB6 DD03	0.016
	2 - spring return to centre	ZB6 DD04	0.016
	3 - spring return to centre	ZB6 DD05	0.016
	3 - spring return from right to centre	ZB6 DD06	0.016
	3 - spring return from left to centre	ZB6 DD07	0.016
	2 - stay put	ZB6 CD02	0.016
	3 - stay put	ZB6 CD03	0.016
	2 - spring return to centre	ZB6 CD04	0.016
	3 - spring return to centre	ZB6 CD05	0.016
	3 - spring return from right to centre	ZB6 CD06	0.016
	3 - spring return from left to centre	ZB6 CD07	0.016
	2 - stay put	ZB6 AD02	0.016
	3 - stay put	ZB6 AD03	0.016
	2 - spring return to centre	ZB6 AD04	0.016
	3 - spring return to centre	ZB6 AD05	0.016
	3 - spring return from right to centre	ZB6 AD06	0.016
	3 - spring return from left to centre	ZB6 AD07	0.016
<b>Heads only (switching angle: stay put positions 90°)</b>			
	2 - stay put	ZB6 DD08	0.016
	2 - stay put	ZB6 CD08	0.016
	2 - stay put	ZB6 AD08	0.016

(1) Handle for use in conjunction with a head without a handle (see page 1/23), and a body sub-assembly for illuminated pushbuttons (see page 1/28)

(2) Handle for use in conjunction with a head without a handle (see page 1/23), and a body sub-assembly for non illuminated pushbuttons (see page 1/28)

(3) Handle to be ordered separately (see page 1/23) for bodies with 2 contact blocks maximum



## Control and signalling units Ø 16

Harmony® XB6, plastic

Key switches



XB6 DG●●B



XB6 CG●●B



XB6 AG●●B



ZB6 DG●

## Key switches (Ronis key n° 200) (1) (2)

Shape of head	Number and type of positions	Type of contacts		Reference	Weight kg
		N/O	N/C		

## Complete units (switching angle: 70°)

	2 - stay put		1	1	<b>XB6 DGC5B</b> (ZB6 Z5B + ZB6 DGC)	0.036
	3 - stay put		1	1	<b>XB6 DGH5B</b> (ZB6 Z5B + ZB6 DGH)	0.036
	2 - stay put		1	1	<b>XB6 CGC5B</b> (ZB6 Z5B + ZB6 CGC)	0.036
	3 - stay put		1	1	<b>XB6 CGH5B</b> (ZB6 Z5B + ZB6 CGH)	0.036
	2 - stay put		1	1	<b>XB6 AGC5B</b> (ZB6 Z5B + ZB6 AGC)	0.036
	3 - stay put		1	1	<b>XB6 AGH5B</b> (ZB6 Z5B + ZB6 AGH)	0.036

Shape of head	Number and type of positions (3)	Key withdrawal	Reference	Weight kg
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## Heads only (switching angle: stay put positions 70°, spring return positions 45°)

	2 - stay put		RH position	<b>ZB6 DGA</b>	0.030
			Centre position	<b>ZB6 DGB (4)</b>	0.030
			Both positions	<b>ZB6 DGC (4)</b>	0.030
	2 - spring return		Centre position	<b>ZB6 DGL</b>	0.030
	3 - stay put		LH position	<b>ZB6 DGD</b>	0.030
			Centre position	<b>ZB6 DGE (4)</b>	0.030
			LH and Centre positions	<b>ZB6 DGF</b>	0.030
			RH position	<b>ZB6 DGG</b>	0.030
			All positions	<b>ZB6 DGH (4)</b>	0.030
			RH and LH positions	<b>ZB6 DGJ</b>	0.030
			RH and Centre positions	<b>ZB6 DGK</b>	0.030
	3 - spring return from left to centre		RH position	<b>ZB6 DGM</b>	0.030
			Centre position	<b>ZB6 DGN</b>	0.030
			RH and Centre positions	<b>ZB6 DGP</b>	0.030
	3 - spring return from right to centre		LH position	<b>ZB6 DGQ</b>	0.030
			Centre position	<b>ZB6 DGR</b>	0.030
			LH and Centre positions	<b>ZB6 DGS</b>	0.030
	3 - spring return to centre		Centre position	<b>ZB6 DGT</b>	0.030

(1) Key n° 200, withdrawal from all positions.

(2) To order a key switch with DOM 311 key, add the suffix **1** to the references selected above.  
Example: **ZB6 DGA1**.

(3) The symbol indicates the key withdrawal position.

(4) Also available with Ronis key numbers: 201, 202 and 203. To order, add the key number to the end of the reference. Example: for key switch **ZB6 DGB** with Ronis key n° 201, the reference becomes: **ZB6 DGB201**



# Control and signalling units Ø 16

Harmony® XB6, plastic

Key switches

1



ZB6 CG●

## Key switches (Ronis key n° 200) (1) (2) (continued)

Shape of head	Number and type of positions (3)	Key withdrawal	Reference	Weight kg
<b>Heads only (switching angle: stay put positions 70°, spring return positions 45°) (continued)</b>				
	2 - stay put		RH position	<b>ZB6 CGA</b> 0.030
			Centre position	<b>ZB6 CGB (4)</b> 0.030
			Both positions	<b>ZB6 CGC (4)</b> 0.030
	2 - spring return		Centre position	<b>ZB6 CGL</b> 0.030
			LH position	<b>ZB6 CGD</b> 0.030
	3 - stay put		Centre position	<b>ZB6 CGE (4)</b> 0.030
			LH and Centre positions	<b>ZB6 CGF</b> 0.030
			RH position	<b>ZB6 CGG</b> 0.030
			All positions	<b>ZB6 CGH (4)</b> 0.030
			RH and LH positions	<b>ZB6 CGJ</b> 0.030
			RH and Centre positions	<b>ZB6 CGK</b> 0.030
			RH position	<b>ZB6 CGM</b> 0.030
	3 - spring return from left to centre		Centre position	<b>ZB6 CGN</b> 0.030
			RH and Centre positions	<b>ZB6 CGP</b> 0.030
			LH position	<b>ZB6 CGQ</b> 0.030
	3 - spring return from right to centre		Centre position	<b>ZB6 CGR</b> 0.030
			LH and Centre positions	<b>ZB6 CGS</b> 0.030
			Centre position	<b>ZB6 CGT</b> 0.030

(1) Key n° 200, withdrawal from all positions.

(2) To order a key switch with DOM 311 key, add the suffix **1** to the references selected above.  
Example: **ZB6 CGA1**.

(3) The symbol indicates the key withdrawal position.

(4) Also available with Ronis key numbers: 201, 202 and 203. To order, add the key number to the end of the reference. Example: for key switch **ZB6 CGB** with Ronis key n° 201, the reference becomes: **ZB6 CGB201**.

## Control and signalling units Ø 16




















Harmony® XB6, plastic

Key switches



ZB6 AG●



Key switches (Ronis key n° 200) (continued) (1)					
Shape of head	Number and type of positions (3)	Key withdrawal	Reference	Weight kg	
Heads only (switching angle: stay put positions 70°, spring return positions 45°) (continued)					
	2 - stay put		RH position	<b>ZB6 AGA</b>	0.030
			Centre position	<b>ZB6 AGB (2)</b>	0.030
			Both positions	<b>ZB6 AGC (2)</b>	0.030
	2 - spring return from right to centre		Centre position	<b>ZB6 AGL</b>	0.030
	3 - stay put		LH position	<b>ZB6 AGD</b>	0.030
			Centre position	<b>ZB6 AGE (2)</b>	0.030
			LH and Centre positions	<b>ZB6 AGF</b>	0.030
			RH position	<b>ZB6 AGG</b>	0.030
			All positions	<b>ZB6 AGH (2)</b>	0.030
			RH and LH positions	<b>ZB6 AGJ</b>	0.030
			RH and Centre positions	<b>ZB6 AGK</b>	0.030
		3 - spring return from left to centre		RH position	<b>ZB6 AGM</b>
			Centre position	<b>ZB6 AGN</b>	0.030
			RH and Centre positions	<b>ZB6 AGP</b>	0.030
	3 - spring return from right to centre		Left-hand position	<b>ZB6 AGQ</b>	0.030
			Centre position	<b>ZB6 AGR</b>	0.030
			LH and Centre positions	<b>ZB6 AGS</b>	0.030
	3 - spring return to centre		Centre position	<b>ZB6 AGT</b>	0.030

(1) To order a key switch with DOM 311 key, add the suffix **1** to the references selected above.  
Example: **ZB6 AGA1**.

(2) Also available with Ronis key numbers: 201, 202 and 203. To order, add the key number to the end of the reference. Example: for key switch **ZB6 AGB** with Ronis key n° 201, the reference becomes: **ZB6 AGB201**.

(3) The symbol indicates the key withdrawal position.

To combine with heads:  
see pages 1/14 to 1/27

1

524612



ZB6 ZB...B

524613



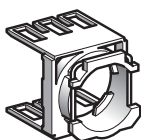
ZB6 ZH...B

524614



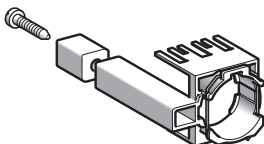
ZB6 Z...B

819715





ZB6 Y009

819714





ZB6 Y011

## Complete bodies for illuminated pushbuttons (1)

Description	Supply voltage	Type of contacts		Colour of light source	Reference	Weight kg
						
	V	N/O	N/C			
Faston connectors						
Fixing collar + contact block + LED (2)	≈ 12...24	1	–	White	<b>ZB6 ZB11B</b>	0.006
				Green	<b>ZB6 ZB31B</b>	0.006
				Yellow	<b>ZB6 ZB51B</b>	0.006
		–	1	Red	<b>ZB6 ZB42B</b>	0.006
				Yellow	<b>ZB6 ZB52B</b>	0.006
		1	1	White	<b>ZB6 ZB15B</b>	0.009
				Green	<b>ZB6 ZB35B</b>	0.009
				Red	<b>ZB6 ZB45B</b>	0.009
				Yellow	<b>ZB6 ZB55B</b>	0.009
				Blue	<b>ZB6 ZB65B</b>	0.009
Direct supply Fixing collar + contact block for incandescent bulb (not included) T1 1/4 (3)	3...24	1	–	–	<b>ZB6 ZH01B</b>	0.006
		–	1	–	<b>ZB6 ZH02B</b>	0.006
		1	1	–	<b>ZB6 ZH05B</b>	0.009

## Complete bodies for pushbuttons or selector switches

Description	Supply voltage	Type of contacts		Reference	Weight kg
					
	V	N/O	N/C		
Faston connectors					
Direct supply Fixing collar + contact block	≤ 250	1	–	ZB6 Z1B	0.004
		–	1	ZB6 Z2B	0.004
		2	–	ZB6 Z3B	0.006
		–	2	ZB6 Z4B	0.006
		1	1	ZB6 Z5B	0.006

## Accessories

Description	Application	Sold in lots of	Unit reference	Weight kg
Body/fixing collar	For mounting contact blocks and light source	10	ZB6 Y009	0.002
Body bracket (fixing screws included)	Printed circuit board mounting	4	ZB6 Y011	0.010

(1) It is possible to assemble illuminated selector switches by using an illuminated pushbutton body sub-assembly in conjunction with a selector switch head supplied without handle + a transparent handle (see page 1/24).

(2) The colour of the LED must be the same as that of the pushbutton cap.

(3) Bulb to be ordered separately (see page 1/38).

To combine with heads:  
see pages 1/14 to 1/27



ZB6 EB●B



ZB6 E●B



ZB6 EB●A



ZB6 E●B



ZB6 E●B



ZB6 E●A

## Complete bodies for pilot lights (light source)

Description	Supply voltage V	Sold in lots of	Colour of light source	Unit reference	Weight kg
<b>Faston connectors (direct mounting by the head)</b>					
<b>Integral LED</b> (1)	≈ 12...24	5	White	<b>ZB6 EB1B</b>	0.003
			Green	<b>ZB6 EB3B</b>	0.003
			Red	<b>ZB6 EB4B</b>	0.003
			Yellow	<b>ZB6 EB5B</b>	0.003
			Blue	<b>ZB6 EB6B</b>	0.003
			Orange	<b>ZB6 EB8B</b>	0.003
	~ 48...120	5	White	<b>ZB6 EG1B</b>	0.003
			Green	<b>ZB6 EG3B</b>	0.003
			Red	<b>ZB6 EG4B</b>	0.003
			Yellow	<b>ZB6 EG5B</b>	0.003
			Blue	<b>ZB6 EG6B</b>	0.003
			Orange	<b>ZB6 EG8B</b>	0.003
	~ 230...240	5	White	<b>ZB6 EM1B</b>	0.003
			Green	<b>ZB6 EM3B</b>	0.003
			Red	<b>ZB6 EM4B</b>	0.003
			Yellow	<b>ZB6 EM5B</b>	0.003
			Blue	<b>ZB6 EM6B</b>	0.003
			Orange	<b>ZB6 EM8B</b>	0.003
<b>With resistor</b> for 95 V neon bulb (not included) T1 1/4 (2) (3)	~ 120	5	—	<b>ZB6 EG0B</b>	0.003
	~ 230	5	—	<b>ZB6 EM0B</b>	0.003
<b>Direct supply</b> for 0.6 W max. incandescent bulb (not included) T1 1/4 (2)	≈ ≤ 24	5	—	<b>ZB6 EH0B</b>	0.003
<b>Pins for printed circuit board connection (mounting by the body, see page 1/28)</b>					
<b>Integral LED</b> (1)	≈ 12...24	5	White	<b>ZB6 EB1A</b>	0.003
			Green	<b>ZB6 EB3A</b>	0.003
			Red	<b>ZB6 EB4A</b>	0.003
			Yellow	<b>ZB6 EB5A</b>	0.003
			Blue	<b>ZB6 EB6A</b>	0.003
			Orange	<b>ZB6 EB8A</b>	0.003
<b>Direct supply</b> for 0.6 W max. incandescent bulb (not included) T1 1/4 (2)	≈ 3...24	5	—	<b>ZB6 EH0A</b>	0.003

## Separate contact blocks

Type of contacts	For use with bodies	Type of contacts		Sold in lots of	Unit reference	Weight kg
		N/O	N/C			
Silver alloy	Faston	1	—	10	<b>ZB6 E1B</b>	0.004
		—	1	10	<b>ZB6 E2B</b>	0.004
	Printed circuit ZB6 Y011	1	—	10	<b>ZB6 E1A</b>	0.004
		—	1	10	<b>ZB6 E2A</b>	0.004
Gold flashed	Faston	1	—	10	<b>ZB6 E1E</b>	0.004
		—	1	10	<b>ZB6 E2E</b>	0.004
	Printed circuit ZB6 Y011	1	—	10	<b>ZB6 E1D</b>	0.004
		—	1	10	<b>ZB6 E2D</b>	0.004

(1) The colour of the LED must be the same as that of the lens cap mounted on the head.




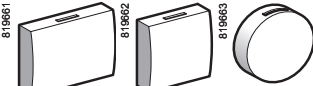
(2) Bulb to be ordered separately (see page 1/38).

(3) Neon bulbs must only be used with red, yellow or white lens caps.







To combine with heads:  
see pages 1/14 to 1/27

1

## Unmarked lens caps




Application	Colour of lens cap	Sold in lots of	Unit reference			Weight kg
			Head 	Head 	Head 	
 ZB6 YDV1 ZB6 YCV1 ZB6 YAV1	White	10	ZB6 YDV1	ZB6 YCV1	ZB6 YAV1	0.001
	Green	10	ZB6 YDV3	ZB6 YCV3	ZB6 YAV3	0.001
	Red	10	ZB6 YDV4	ZB6 YCV4	ZB6 YAV4	0.001
	Yellow	10	ZB6 YDV5	ZB6 YCV5	ZB6 YAV5	0.001
	Blue	10	ZB6 YDV6	ZB6 YCV6	ZB6 YAV6	0.001
	Orange	10	ZB6 YDV8	ZB6 YCV8	ZB6 YAV8	0.001

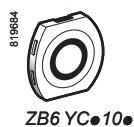
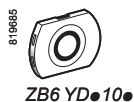
## Pushbutton caps - unmarked

Application	Colour of cap	Sold in lots of	Unit reference			Weight kg
			Head 	Head 	Head 	
 ZB6 YDW1 ZB6 YCW1 ZB6 YAW1	White	10	ZB6 YDW1	ZB6 YCW1	ZB6 YAW1	0.001
	Green	10	ZB6 YDW3	ZB6 YCW3	ZB6 YAW3	0.001
	Red	10	ZB6 YDW4	ZB6 YCW4	ZB6 YAW4	0.001
	Yellow	10	ZB6 YDW5	ZB6 YCW5	ZB6 YAW5	0.001
	Blue	10	ZB6 YDW6	ZB6 YCW6	ZB6 YAW6	0.001
	Orange	10	ZB6 YDW8	ZB6 YCW8	ZB6 YAW8	0.001
 ZB6 YDE1 ZB6 YCE1 ZB6 YAE1	White	10	ZB6 YDE1	ZB6 YCE1	ZB6 YAE1	0.001
	Green	10	ZB6 YDE3	ZB6 YCE3	ZB6 YAE3	0.001
	Red	10	ZB6 YDE4	ZB6 YCE4	ZB6 YAE4	0.001
	Yellow	10	ZB6 YDE5	ZB6 YCE5	ZB6 YAE5	0.001
	Blue	10	ZB6 YDE6	ZB6 YCE6	ZB6 YAE6	0.001
	Orange	10	ZB6 YDE8	ZB6 YCE8	ZB6 YAE8	0.001
 ZB6 YDA1 ZB6 YCA1 ZB6 YAA1	White	10	ZB6 YDA1	ZB6 YCA1	ZB6 YAA1	0.001
	Black	10	ZB6 YDA2	ZB6 YCA2	ZB6 YAA2	0.001
	Green	10	ZB6 YDA3	ZB6 YCA3	ZB6 YAA3	0.001
	Red	10	ZB6 YDA4	ZB6 YCA4	ZB6 YAA4	0.001
	Yellow	10	ZB6 YDA5	ZB6 YCA5	ZB6 YAA5	0.001
	Blue	10	ZB6 YDA6	ZB6 YCA6	ZB6 YAA6	0.001

To combine with heads:  
see pages 1/14 to 1/27

## Pushbutton caps - marked

Marking	Colour of cap	Sold in lots of	Unit reference	Head	Head	Head	Weight kg
White on coloured cap Black on white cap							
For non illuminated, flush pushbuttons							
0	White	10	ZB6 YD100	ZB6 YC100	ZB6 YA100		0.001
	Black	10	ZB6 YD200	ZB6 YC200	ZB6 YA200		0.001
1	White	10	ZB6 YD101	ZB6 YC101	ZB6 YA101		0.001
	Black	10	ZB6 YD201	ZB6 YC201	ZB6 YA201		0.001
2	White	10	ZB6 YD102	ZB6 YC102	ZB6 YA102		0.001
	Black	10	ZB6 YD202	ZB6 YC202	ZB6 YA202		0.001
3	White	10	ZB6 YD103	ZB6 YC103	ZB6 YA103		0.001
	Black	10	ZB6 YD203	ZB6 YC203	ZB6 YA203		0.001
4	White	10	ZB6 YD104	ZB6 YC104	ZB6 YA104		0.001
	Black	10	ZB6 YD204	ZB6 YC204	ZB6 YA204		0.001
5	White	10	ZB6 YD105	ZB6 YC105	ZB6 YA105		0.001
	Black	10	ZB6 YD205	ZB6 YC205	ZB6 YA205		0.001
6	White	10	ZB6 YD106	ZB6 YC106	ZB6 YA106		0.001
	Black	10	ZB6 YD206	ZB6 YC206	ZB6 YA206		0.001
7	White	10	ZB6 YD107	ZB6 YC107	ZB6 YA107		0.001
	Black	10	ZB6 YD207	ZB6 YC207	ZB6 YA207		0.001
8	White	10	ZB6 YD108	ZB6 YC108	ZB6 YA108		0.001
	Black	10	ZB6 YD208	ZB6 YC208	ZB6 YA208		0.001
9	White	10	ZB6 YD109	ZB6 YC109	ZB6 YA109		0.001
	Black	10	ZB6 YD209	ZB6 YC209	ZB6 YA209		0.001
I	White	10	ZB6 YD111	ZB6 YC111	ZB6 YA111		0.001
	Green	10	ZB6 YD311	ZB6 YC311	ZB6 YA311		0.001
O	Black	10	ZB6 YD210	ZB6 YC210	ZB6 YA210		0.001
	Red	10	ZB6 YD410	ZB6 YC410	ZB6 YA410		0.001



To combine with heads:  
see pages 1/14 to 1/27

1



## Pushbutton caps - marked (continued)




Marking	Colour of cap	Sold in lots of	Unit reference	Head	Head	Head	Weight kg
White on coloured cap Black on white cap	—	—	Head				

## For non illuminated, flush pushbuttons (continued)

II	White	5	ZB6 YD112	ZB6 YC112	ZB6 YA112	0.001
	Black	5	ZB6 YD212	ZB6 YC212	ZB6 YA212	0.001
III	White	5	ZB6 YD113	ZB6 YC113	ZB6 YA113	0.001
	Black	5	ZB6 YD213	ZB6 YC213	ZB6 YA213	0.001
+	White	5	ZB6 YD114	ZB6 YC114	ZB6 YA114	0.001
	Black	5	ZB6 YD214	ZB6 YC214	ZB6 YA214	0.001
-	White	5	ZB6 YD115	ZB6 YC115	ZB6 YA115	0.001
	Black	5	ZB6 YD215	ZB6 YC215	ZB6 YA215	0.001
MARCHE	White	5	ZB6 YD116	ZB6 YC116	ZB6 YA116	0.001
	Green	5	ZB6 YD316	ZB6 YC316	ZB6 YA316	0.001
ON	White	5	ZB6 YD117	ZB6 YC117	ZB6 YA117	0.001
	Green	5	ZB6 YD317	ZB6 YC317	ZB6 YA317	0.001
START	Green	5	ZB6 YD340	ZB6 YC340	ZB6 YA340	0.001
EIN	White	5	ZB6 YD118	ZB6 YC118	ZB6 YA118	0.001
	Green	5	ZB6 YD318	ZB6 YC318	ZB6 YA318	0.001
ARRET	Black	5	ZB6 YD223	ZB6 YC223	ZB6 YA223	0.001
	Red	5	ZB6 YD423	ZB6 YC423	ZB6 YA423	0.001
STOP	Red	5	ZB6 YD441	ZB6 YC441	ZB6 YA441	0.001
OFF	Black	5	ZB6 YD224	ZB6 YC224	ZB6 YA224	0.001
	Red	5	ZB6 YD424	ZB6 YC424	ZB6 YA424	0.001
AUS	Black	5	ZB6 YD225	ZB6 YC225	ZB6 YA225	0.001
	Red	5	ZB6 YD425	ZB6 YC425	ZB6 YA425	0.001
R	Blue	5	ZB6 YD626	ZB6 YC626	ZB6 YA626	0.001
MONTEE	White	5	ZB6 YD129	ZB6 YC129	ZB6 YA129	0.001
	Black	5	ZB6 YD229	ZB6 YC229	ZB6 YA229	0.001

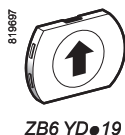
To combine with heads:  
see pages 1/14 to 1/27

## Pushbutton caps - marked (continued)

Marking	Colour of cap	Sold in lots of	Unit reference	Head	Head	Head	Weight kg
White on coloured cap Black on white cap	—	—	Head				

## For non illuminated, flush pushbuttons (continued)

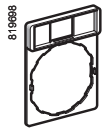
UP	White	5	ZB6 YD127	ZB6 YC127	ZB6 YA127	0.001
	Black	5	ZB6 YD227	ZB6 YC227	ZB6 YA227	0.001
DESCENTE	White	5	ZB6 YD130	ZB6 YC130	ZB6 YA130	0.001
	Black	5	ZB6 YD230	ZB6 YC230	ZB6 YA230	0.001
DOWN	White	5	ZB6 YD128	ZB6 YC128	ZB6 YA128	0.001
	Black	5	ZB6 YD228	ZB6 YC228	ZB6 YA228	0.001
AB	White	5	ZB6 YD134	ZB6 YC134	ZB6 YA134	0.001
	Black	5	ZB6 YD234	ZB6 YC234	ZB6 YA234	0.001
FERME	White	5	ZB6 YD133	ZB6 YC133	ZB6 YA133	0.001
	Black	5	ZB6 YD233	ZB6 YC233	ZB6 YA233	0.001
CLOSE	White	5	ZB6 YD132	ZB6 YC132	ZB6 YA132	0.001
	Black	5	ZB6 YD232	ZB6 YC232	ZB6 YA232	0.001
ZU	White	5	ZB6 YD131	ZB6 YC131	ZB6 YA131	0.001
	Black	5	ZB6 YD231	ZB6 YC231	ZB6 YA231	0.001
↑	White	5	ZB6 YD119	ZB6 YC119	ZB6 YA119	0.001
	Black	5	ZB6 YD219	ZB6 YC219	ZB6 YA219	0.001
↓	White	5	ZB6 YD120	ZB6 YC120	ZB6 YA120	0.001
	Black	5	ZB6 YD220	ZB6 YC220	ZB6 YA220	0.001
→	White	5	ZB6 YD121	ZB6 YC121	ZB6 YA121	0.001
	Black	5	ZB6 YD221	ZB6 YC221	ZB6 YA221	0.001
←	White	5	ZB6 YD122	ZB6 YC122	ZB6 YA122	0.001
	Black	5	ZB6 YD222	ZB6 YC222	ZB6 YA222	0.001



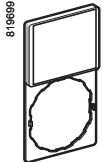


To combine with heads:  
see pages 1/14 to 1/27

1



ZB6 YD20



ZB6 YD30



ZB6 Y1001



ZB6 Y3001

**Legend holder 24 x 48 mm (size 1) for 8 x 21 mm legend (1)**

Description	Colour of legend	Sold in lots of	Unit reference	Weight kg
Without legend	–	10	ZB6 YD20	0.001
With blank legend	White or yellow background	10	ZB6 YD21	0.001
	Black or red background	10	ZB6 YD22	0.001

**Legend holder 24 x 36 mm (size 2) for 16 x 21 mm legend (1)**

Description	Colour of legend	Sold in lots of	Unit reference	Weight kg
Without legend	–	10	ZB6 YD30	0.001
With blank legend	White or yellow background	10	ZB6 YD31	0.001
	Black or red background	10	ZB6 YD32	0.001

**Blank legends**

Dimensions	For use with	Colour	Sold in lots of	Unit reference	Weight kg
8 x 21 mm	Size 1 legend holder ZB6 YD20	Yellow or white background	20	ZB6 Y1001	0.001
		Black or red background	20	ZB6 Y2001	0.001
16 x 21 mm	Size 2 legend holder ZB6 YD30	Yellow or white background	20	ZB6 Y4001	0.001
		Black or red background	20	ZB6 Y3001	0.001

**Legends for engraving (2)**

Dimensions	For use with	Colour	Sold in lots of	Unit reference	Weight kg
8 x 21 mm	Size 1 legend holder ZB6 YD20	Yellow or white background	10	ZB6 Y1900	0.001
		Black or red background	10	ZB6 Y2900	0.001
16 x 21 mm	Size 2 legend holder ZB6 YD30	Yellow or white background	10	ZB6 Y4900	0.001
		Black or red background	10	ZB6 Y3900	0.001

(1) For legends, see below and also following page.

(2) Pre-engraved legends. When ordering, clearly state the background colour, text to be engraved: (either 1 line for 8 x 21 mm or 2 lines for 16 x 21 mm legends - in both cases, 10 characters max. per line) and the quantity. Minimum quantity: 25 identical legends.

To combine with heads:  
see pages 1/14 to 1/27



ZB6 Y2178



ZB6 Y2104



ZB6 Y2304

## 8 x 21 mm marked legends (for "size 1" 24 x 28 mm legend holders ZB6 YD20)

Colour	Language	Marking	Sold in lots of	Unit reference	Weight kg
Black or red background (1)	International	O-I	5	ZB6 Y2178	0.001
		I-II	5	ZB6 Y2179	0.001
		I-O-II	5	ZB6 Y2186	0.001
		← O →	5	ZB6 Y2190	0.001
	French	ARRET	5	ZB6 Y2104	0.001
		ARRIERE	5	ZB6 Y2106	0.001
		AVANT	5	ZB6 Y2105	0.001
		DEFAULT	5	ZB6 Y2134	0.001
		DESCENTE	5	ZB6 Y2108	0.001
		DROITE	5	ZB6 Y2109	0.001
		EN SERVICE	5	ZB6 Y2111	0.001
		FERME	5	ZB6 Y2114	0.001
		GAUCHE	5	ZB6 Y2110	0.001
		HORS SERVICE	5	ZB6 Y2112	0.001
		OUVERT	5	ZB6 Y2113	0.001
		MAIN-O-AUTO	5	ZB6 Y2187	0.001
		MARCHE	5	ZB6 Y2103	0.001
		MONTEE	5	ZB6 Y2107	0.001
		REARMEMENT	5	ZB6 Y2123	0.001
	English	HAND-O-AUTO	5	ZB6 Y2387	0.001
		CLOSE	5	ZB6 Y2314	0.001
		DOWN	5	ZB6 Y2308	0.001
		FORWARD	5	ZB6 Y2305	0.001
		FAULT	5	ZB6 Y2334	0.001
		LEFT	5	ZB6 Y2310	0.001
		OFF	5	ZB6 Y2312	0.001
		ON	5	ZB6 Y2303	0.001
		OPEN	5	ZB6 Y2313	0.001
		RESET	5	ZB6 Y2323	0.001
		REVERSE	5	ZB6 Y2306	0.001
		RIGHT	5	ZB6 Y2309	0.001
		RUN	5	ZB6 Y2311	0.001
		STOP	5	ZB6 Y2304	0.001
		UP	5	ZB6 Y2307	0.001

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

To combine with heads:  
see pages 1/14 to 1/27

1

819706

HALT

ZB6 Y2204

819705

PARADA

ZB6 Y2404

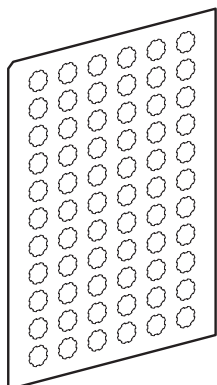
## 8 x 21 mm marked legends (for "size 1" 24 x 28 mm legend holders ZB6 YD20) (continued)

Colour	Language	Marking	Sold in lots of	Unit reference	Weight kg
Black or red background (1)	German	AB	5	ZB6 Y2208	0.001
		AUF	5	ZB6 Y2207	0.001
		AUS	5	ZB6 Y2212	0.001
		BETRIEB	5	ZB6 Y2211	0.001
		EIN	5	ZB6 Y2203	0.001
		HALT	5	ZB6 Y2204	0.001
		HAND-O-AUTO	5	ZB6 Y2287	0.001
		LINKS	5	ZB6 Y2210	0.001
		ÖFFNEN	5	ZB6 Y2213	0.001
		RECHTS	5	ZB6 Y2209	0.001
		RÜCKSTELLUNG	5	ZB6 Y2223	0.001
		SCHLIESSEN	5	ZB6 Y2214	0.001
		STÖRUNG	5	ZB6 Y2234	0.001
		VOR	5	ZB6 Y2205	0.001
		ZURÜCK	5	ZB6 Y2206	0.001
	Spanish	ADELANTE	5	ZB6 Y2405	0.001
		APERTURA	5	ZB6 Y2413	0.001
		ATRAS	5	ZB6 Y2406	0.001
		BAJADA	5	ZB6 Y2408	0.001
		CIERRE	5	ZB6 Y2414	0.001
		DEFECTO	5	ZB6 Y2434	0.001
		DERECHA	5	ZB6 Y2409	0.001
		EN SERVICIO	5	ZB6 Y2411	0.001
		FUERA SERV.	5	ZB6 Y2412	0.001
		IZQUIERDA	5	ZB6 Y2410	0.001
		MARCHA	5	ZB6 Y2403	0.001
		PARADA	5	ZB6 Y2404	0.001
		REARME	5	ZB6 Y2423	0.001
		SUBIDA	5	ZB6 Y2405	0.001

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

To combine with heads:  
see pages 1/14 to 1/27

819709



ZB6 YA003

## Sheets of peel-off legends

Description	Application	Sold in lots of	Unit reference	Weight kg
Sheets of 66 peel-off, transparent, self-adhesive legends	Rectangular pilot lights	10	ZB6 YD003	0.030
	Square pilot lights	10	ZB6 YC003	0.030
	Circular pilot lights	10	ZB6 YA003	0.030
	Rectangular illuminated pushbuttons	10	ZB6 YD013	0.030
	Square illuminated pushbuttons	10	ZB6 YC013	0.030
	Circular illuminated pushbuttons	10	ZB6 YA013	0.030

56327



XBY 2U

## "SIS Label" labelling software

Application	Reference	Weight kg
Legend design for English, French, German, Italian, Spanish	XBY 2U	0.100

819708

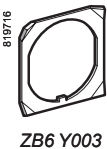
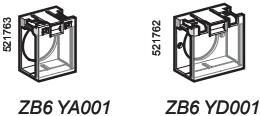
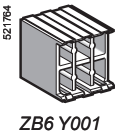
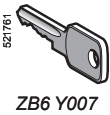
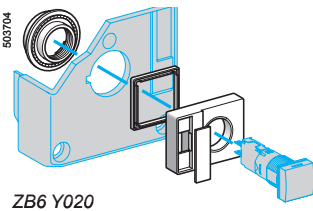
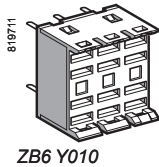
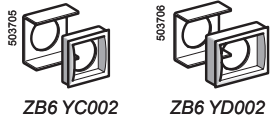


ZB6 Y7330

## Circular legends for Emergency Stop mushroom head pushbuttons (yellow)

Diameter mm	Marking on yellow background	Reference	Weight kg
45	Without	ZB6 Y7001	0.001
	ARRET D'URGENCE	ZB6 Y7130	0.001
	EMERGENCY STOP	ZB6 Y7330	0.001
	PARADA EMERGENCIA	ZB6 Y7430	0.001
	ARRESTO EMERGENZA	ZB6 Y7630	0.001
	NOT-AUS	ZB6 Y7230	0.001

1



## Mounting accessories

Description	Application		Sold in lots of	Unit reference	Weight kg
Adapters for flush mounting	For flush mounting a circular pushbutton, switch or pilot light in a Ø 22 mm hole		10	ZB6 YA002	0.030
	For flush mounting a square pushbutton, switch or pilot light in a 21 x 21 square hole		5	ZB6 YC002	0.032
	For flush mounting a rectangular pushbutton, switch or pilot light in a 21 x 27 rectangular hole		5	ZB6 YD002	0.032
Plug-in socket adapter	Printed circuit board mounting		10	ZB6 Y010	0.004
Dummy contact block housing (without contacts)	Printed circuit board mounting	Without pins for printed circuit	10	ZB6 Y006	0.001
		With pins for printed circuit	10	ZB6 Y006A	0.001
Adapter for XAL control station (Ø 22 to Ø 16 reducer)	Ø 16 circular, square or rectangular units		5	ZB6 Y020	0.038

## Bulbs

Description	Voltage	Sold in lots of	Unit reference	Weight kg
Incandescent bulbs 2-pin T1 1/4	6 V	6	ZB6 YA006	0.002
	12 V	10	ZB6 YJ012	0.002
	24 V (1)	20	ZB6 YB028	0.002
Neon bulbs	110/230V (2)	5	ZB6 YG095	0.002

## Accessories for key switches

Ronis key n° 200	Key switches	2	ZB6 Y007	0.006
Ronis key n° 201	Key switches	2	ZB6 Y201	0.006
Ronis key n° 202	Key switches	2	ZB6 Y202	0.006
Ronis key n° 203	Key switches	2	ZB6 Y203	0.006
DOM 311 key	Key switches	2	ZB6 Y008	0.006

## Protection accessories

Protective cover	Protection of contacts against direct finger contact	10	ZB6 Y001	0.005
Protective shutters (3)	Circular or square pushbuttons and switches	1	ZB6 YA001	0.003
	Rectangular pushbuttons and switches	1	ZB6 YD001	0.003

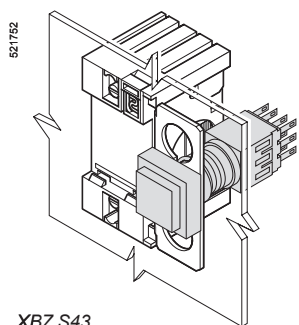
## Miscellaneous accessories

Anti-rotation plate	Selector switches, Emergency stop buttons	10	ZB6 Y003	0.001
Nut	Securing head on support	10	ZB6 Y002	0.001
Dismantling tool	Removal of contact blocks from body/fixing collar	5	ZB6 Y018	0.005
Extractor	Removal of pushbutton caps	5	ZB6 Y016	0.010
Bezel tightening tool + bulb extractor	Tightening and slackening the bezel and changing bulbs	2	ZB6 Y905	0.006
Metal assembly tool	Tightening of fixing nut	1	ZB6 Y906	0.022
Dismantling tool kit, comprising 3 tools	Removal of contacts, fixing nuts and pushbutton caps	1	ZB6 Y019	0.030

(1) 28 V bulb supplied for use on 24 V.

(2) 95 V bulb supplied for use on 110/230 V.

(3) The thickness of the protective shutters must be taken into account when fitting with plug-in socket adapter (ZB6 Y010).



## Accessories (continued)

Description		Sold in lots of	Unit reference	Weight kg
Female Faston connector	—	100	ZB6 Y004	0.002
Blanking plug	—	10	ZB6 Y005	0.001

## AS-Interface module S7.F profile



Description	Indicator "ON" signalling mode	Reference	Weight kg
<b>Panel fixing, in conjunction with a Harmony pushbutton or switch</b>			
<b>4 input/4 output interface</b>	Steady	<b>XBZ S43</b>	0.185
Inputs for discrete contacts			
Outputs for pilot lights	Steady or flashing depending on parameter settings	<b>XBZ S44</b>	0.185
<b>Bracket for use when mounting on DIN rail</b>	—	<b>ZBZ S6</b>	0.085

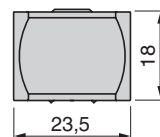
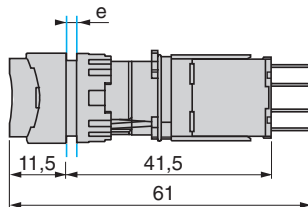
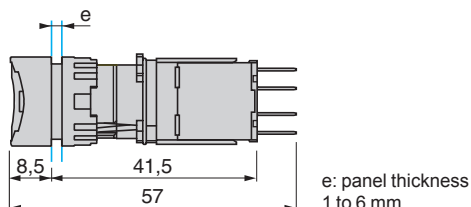
## Pushbuttons (illuminated and non illuminated)

### Rectangular head

XB6 DW●●●●, DF●●●●, DA●●

XB6 DE●●●●

Common face view

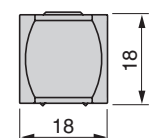
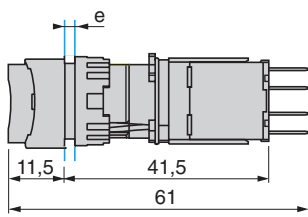
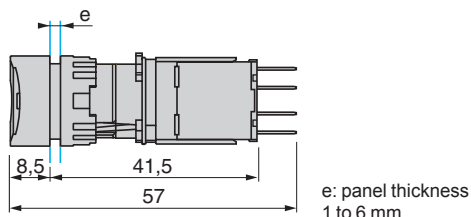


### Square head

XB6 CW●●●●, CF●●●●, CA●●

XB6 CE●●●●

Common face view

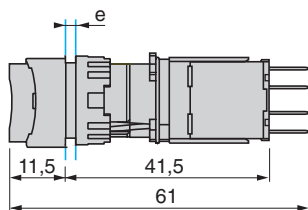
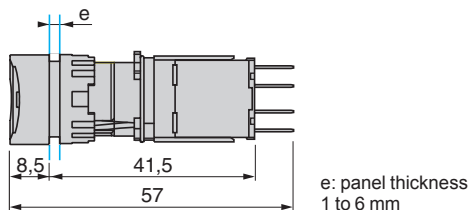


### Circular head

XB6 AW●●●●, AF●●●●, AA●●

XB6 AE●●●●

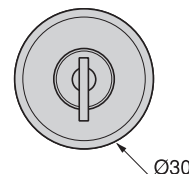
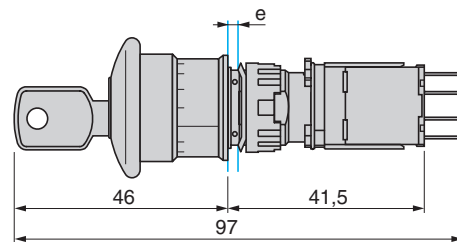
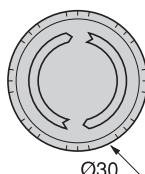
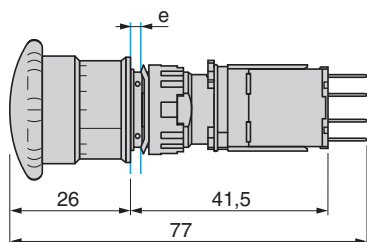
Common face view



## Mushroom head pushbuttons

XB6 AS8349B

XB6 AS9349B



## Pilot lights

### Common side view

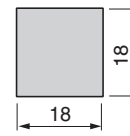
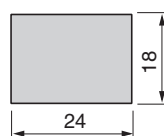
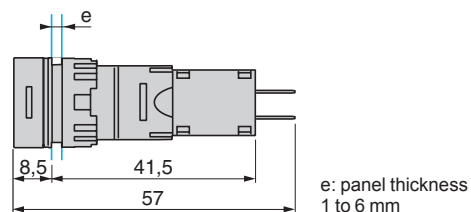
XB6 DV●●●, XB6 CV●●●

### Rectangular head

XB6 DV●●●

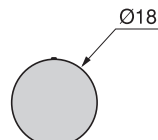
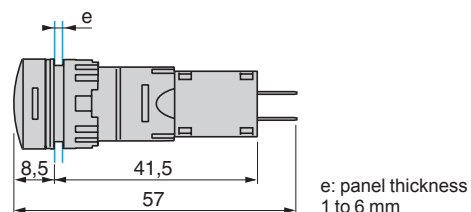
### Square head

XB6 CV●●●



### Circular head

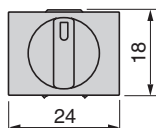
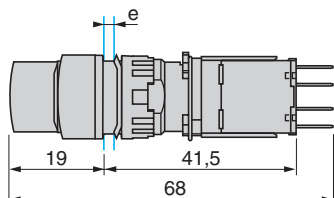
XB6 AV●●●



## Selector switches, standard handle (illuminated and non illuminated)

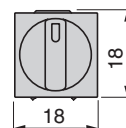
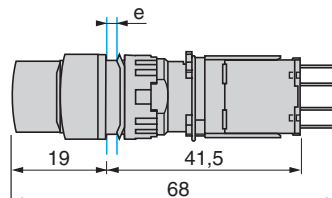
## Rectangular head

XB6 DD●●●●, XB6 DK●●●●●



## Square head

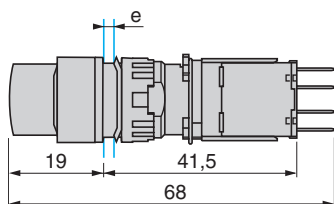
XB6 CD●●●●, XB6 CK●●●●●



e: panel thickness 1 to 6 mm

## Circular head

XB6 AD●●●●, XB6 AK●●●●●

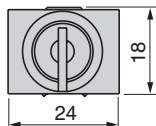
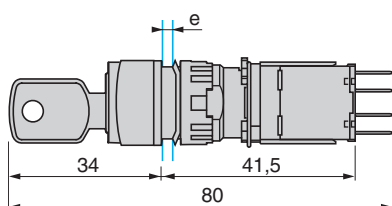


e: panel thickness 1 to 6 mm

## Key switches

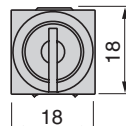
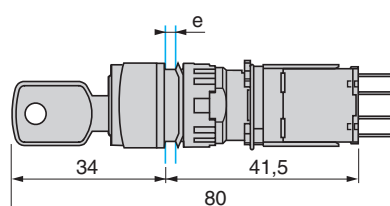
## Rectangular head

XB6 DG●●●



## Square head

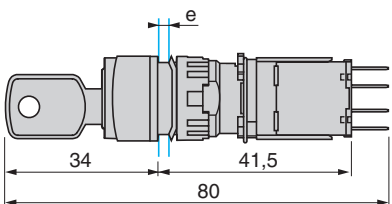
XB6 CG●●●



e: panel thickness 1 to 6 mm

## Circular head

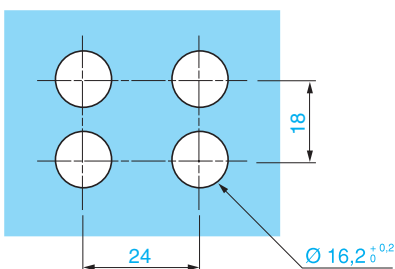
XB6 AG●●●



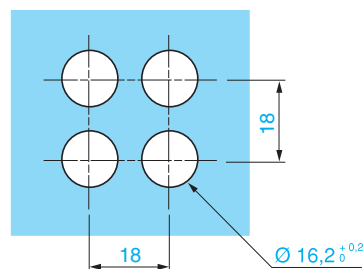
e: panel thickness 1 to 6 mm

## Panel cut-out and mounting

## For rectangular head



## For square or circular head

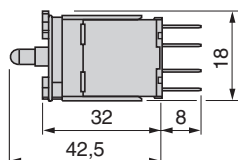




## Pushbuttons

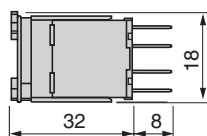
### Bodies for illuminated pushbuttons

#### ZB6 Z●●●B



### Bodies for non illuminated pushbuttons

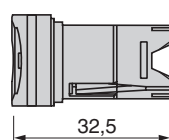
#### ZB6 Z●B



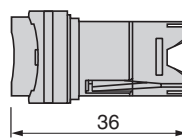
### Heads for illuminated and non illuminated pushbuttons

#### Rectangular

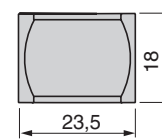
##### ZB6 DW●, DF●, DA●



##### ZB6 DE●

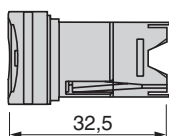


#### Common face view

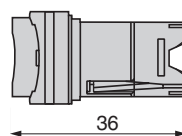


#### Square

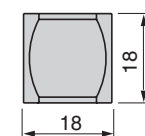
##### ZB6 CW●, CF●, CA●



##### ZB6 CE●

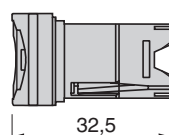


#### Common face view

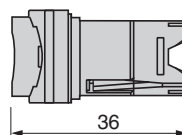


#### Circular

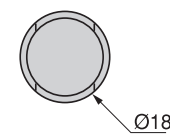
##### ZB6 AW●, AF●, AA●



##### ZB6 AE●



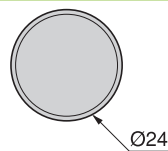
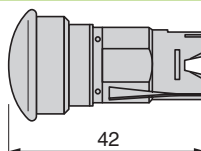
#### Common face view



### Heads for mushroom head pushbuttons

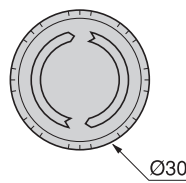
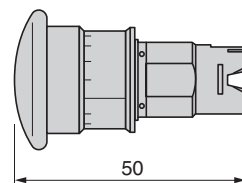
#### Spring return

##### ZB6 AC●

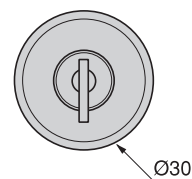
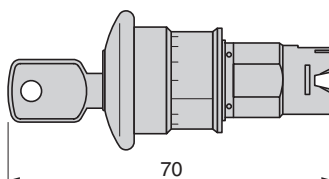


#### Trigger action

##### ZB6 AS834



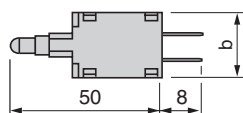
##### ZB6 AS934



## Pilot lights

### Bodies

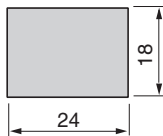
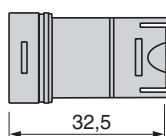
ZB6 EB●●



	b
ZB6 E●●B	13.5
ZB6 EB●A	15.5

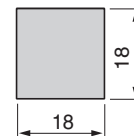
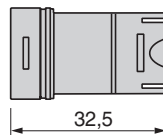
### Rectangular head

ZB6 DV●



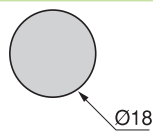
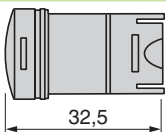
### Square head

ZB6 CV●



### Circular head

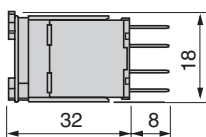
ZB6 AV●



## Selector switches, standard handle (illuminated and non illuminated)

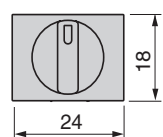
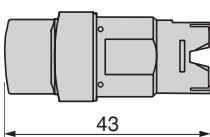
### Bodies

ZB6 Z●B



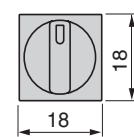
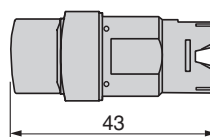
### Rectangular head

ZB6 DD●●



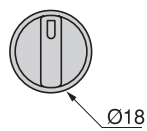
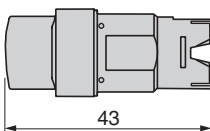
### Square head

ZB6 CD●●



### Circular head

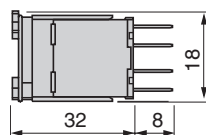
ZB6 AD●●



## Key switches

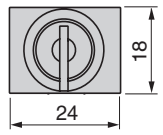
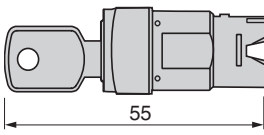
### Bodies

ZB6 Z●B



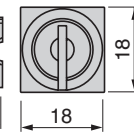
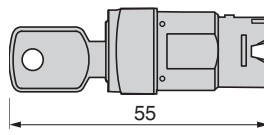
### Rectangular head

ZB6 DG●



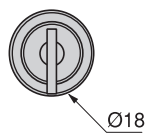
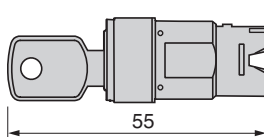
### Square head

ZB6 CG●



### Circular head

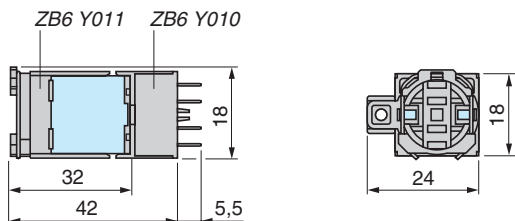
ZB6 AG●



1

#### Plug-in socket adaptor for printed circuit board mounting and body bracket

ZB6 Y010 + ZB6 Y011



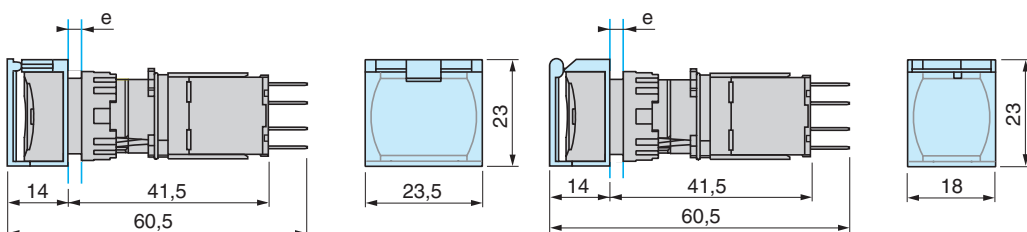
#### Protective shutter

For rectangular head

ZB6 YD001

For square or circular head

ZB6 YA001

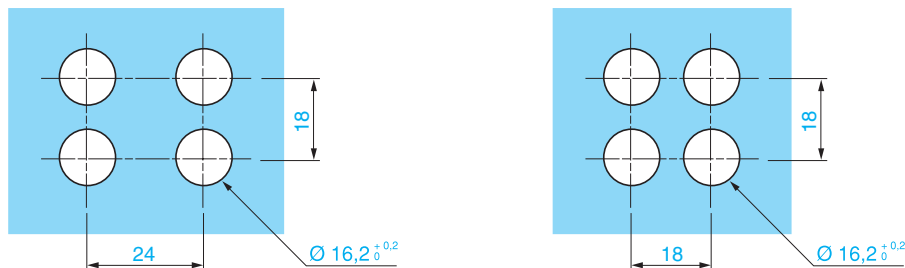


e: panel thickness 1 to 6 mm

#### Panel cut-out and mounting

Rectangular head

Square or circular head



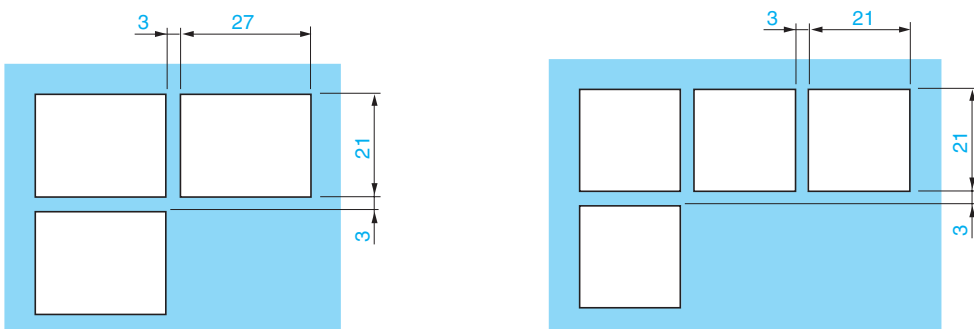
With flush mounting kit

For rectangular head

ZB6 YD002

For square head

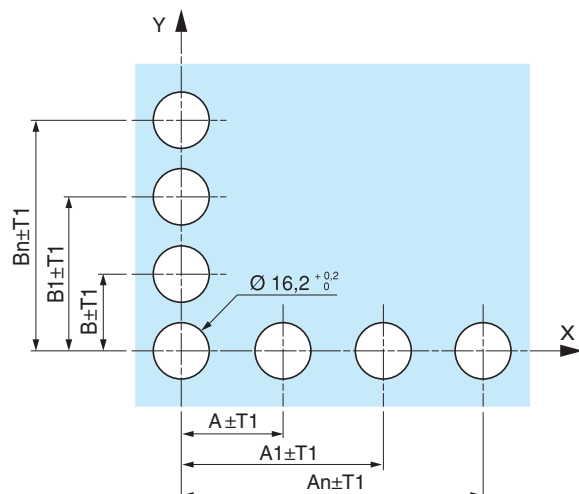
ZB6 YC002



#### Pushbuttons, switches and pilot lights for printed circuit board connection

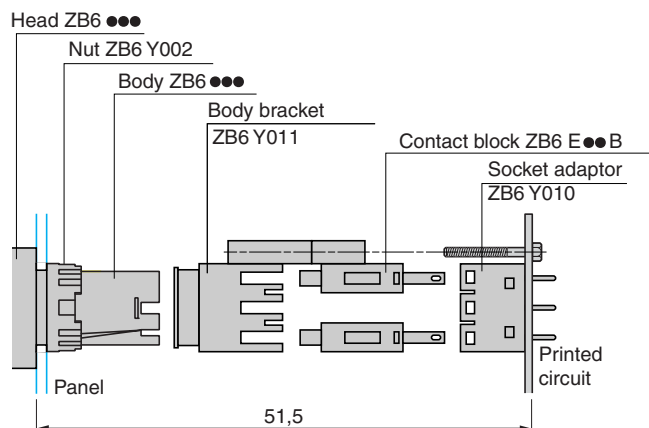
Front panel cut-out (viewed from installer's side)

Dimensions in mm



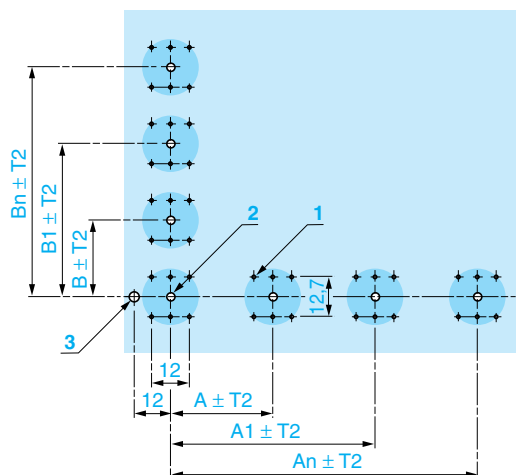
#### Mounting with body bracket

With socket adaptor ZB6 Y010

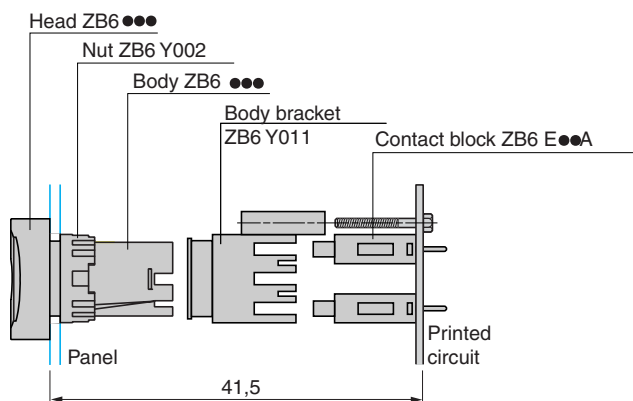


Printed circuit board drillings (viewed from electrical block side) (1)

Dimensions in mm



Direct mounting without socket adaptor ZB6 Y010



A: 24 minimum for rectangular heads

18 minimum for square or circular heads

B:: 18 minimum

1 6 x Ø 1.1 mm holes.

2 1 x Ø 2.6  $\frac{0}{0.2}$  hole for locating pin, only when using socket adaptor ZB6 Y010.

3 1 x Ø 3.2  $\frac{0}{0.2}$  hole for fixing of printed circuit board onto the front panel using body bracket ZB6 Y011.

This hole must be drilled on the left-hand side, when heads are positioned at the normal angle.

Fit a body bracket ZB6 Y011 every 72 mm maximum for cut-outs on 24 mm centres (rectangular heads) and 54 mm maximum for cut-outs on 18 mm centres (square or circular heads).

**General tolerances of the panel and printed circuit board: T1, T2**

The cumulative tolerance must not exceed 0.3 mm: **T1 + T2 = 0.3 mm maximum.**

**Installation precautions:**

Thickness of printed circuit board: 1.6 mm minimum.

(1) The cut-out dimensions are the same for direct mounting and for mounting using socket adaptor ZB6 Y010.

1

Customer			Schneider Electric	
Company	Order N°	Delivery	Sales Office - Subsidiary Company	Order N°

Lot reference of legends with special marking	Total number of legends	Total price
ZB6 ACD3S		

## Legends for illuminated pushbuttons

## Rectangular shape



TOTAL

Number of lots :

## Square shape



TOTAL

Number of lots :

## Circular shape



TOTAL

Number of lots :

## Legends for pilots lights

## Rectangular shape



TOTAL

Number of lots :

## Square shape



TOTAL

Number of lots :

## Circular shape



TOTAL

Number of lots :

# Order form (continued)

(specimen suitable for photocopying)

## Control and signaling units Ø 16

Harmony® XB6, plastic

Pushbuttons, switches and pilot lights







Legend with special markings, ZB6 (sold in lots of 10)

Customer			Schneider Electric	
Company	Order N°	Delivery	Sales Office - Subsidiary Company	Order N°







Lot reference of pushbutton caps with special marking	Total no. of pushbutton caps	Total price
ZB6 YACDS		

### Caps for non illuminated pushbuttons







#### Rectangular shape

							TOTAL
Colour (1)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Number of lots :	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

#### Square shape

							TOTAL
Colour (1)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Number of lots :	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

#### Circular shape

							TOTAL
Colour (1)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Number of lots :	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

(1) Indicate, in each box, the number corresponding to the colour of the required pushbutton cap:

White: 1

Black: 2

Green: 3

Red: 4

Yellow: 5

Blue: 6

## Control and signalling units Ø 22

Harmony® XB4, metal

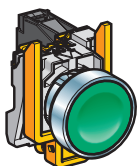
Pushbuttons, switches and pilot lights

1

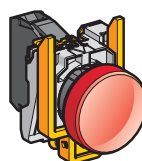
## Description

The Ø 22 range of metal control and signalling units comprises:

Complete units with chromium plated metal bezel, XB4 B

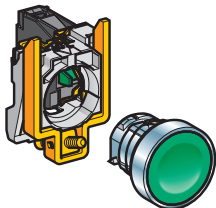
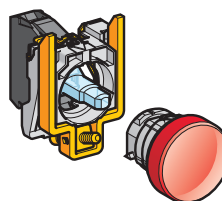


Pushbuttons and switches

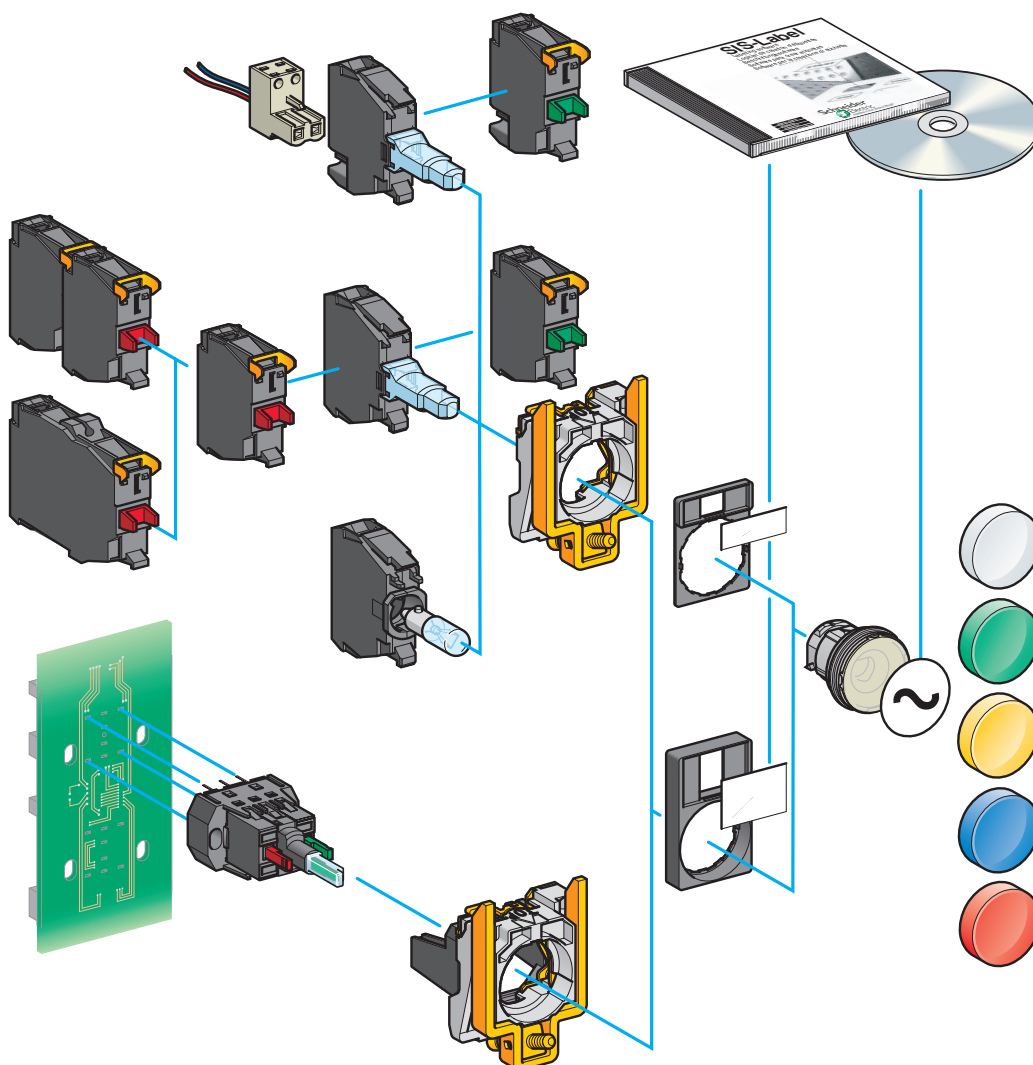


Pilot lights

Sub-assemblies with chromium plated or black metal bezel, ZB4 B

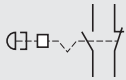
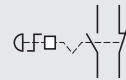
Pushbuttons and switches:  
body + head sub-assembliesPilot lights:  
body + head sub-assemblies

ZB component parts and accessories

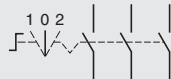
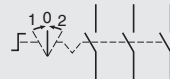
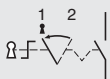


## Schematic library

## Contact functions (pushbuttons, Emergency stop and Emergency switching off pushbuttons)

Pushbutton  
N/O contactPushbutton  
N/C contactMushroom head spring return  
N/O contactEmergency switching off  
mushroom head pushbutton-  
Push-pull N/C contactEmergency stop trigger  
action mushroom head - Push-pull  
N/O + N/C contactsEmergency switching off  
- Turn to release  
N/C contactEmergency switching off  
- Turn to release, with key  
N/C contactEmergency stop trigger action  
mushroom head - Turn to release  
N/O + N/C contactsEmergency stop trigger  
action mushroom head  
Turn to release, with key  
N/O + N/C contactsDouble-headed pushbutton  
N/O + N/C contactsEarly make contact block  
N/O contactLate break contact block  
N/C contact

## Contact functions (selector switches)

Selector switch 2-position stay put  
N/O contactSelector switch 3-position stay put  
N/O+N/O+N/O contactsSelector switch 3-position  
2 spring return to centre  
N/O+N/O+N/O contactsSelector switch 2-position stay put,  
key withdrawal from LH position -  
N/O contactSelector switch 2-position spring return from right to left,  
key withdrawal from LH position  
N/O contact

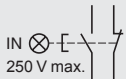
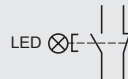
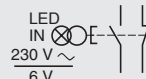
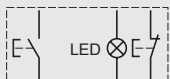
## Signalling functions

Pilot light with BA 9s  
incandescent bulb

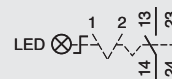
LED pilot light

Pilot light with integral transformer 230 V primary, 6 V secondary  
BA 9s bulb, incandescent or LED

## Combined functions, contact + signalling (pushbuttons and selector switches)

Illuminated pushbutton,  
BA 9s incandescent bulb  
N/O+N/C contactsIlluminated pushbutton  
LED - N/O+ N/C contactsIlluminated pushbutton with integral transformer  
230 V ~ 50/60 Hz primary, 6 V secondary  
BA 9s bulb, incandescent or LED - N/O+ N/C contacts

Double-headed pushbutton with LED pilot light

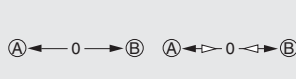
Illuminated selector switch with LED, 2-position stay put  
N/O + N/C contacts

## Joystick controller functions

## 2 direction

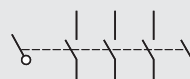


Without spring return

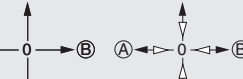


With spring return

## 4 direction



Without spring return



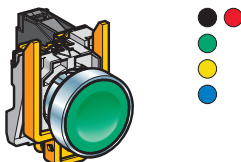
With spring return



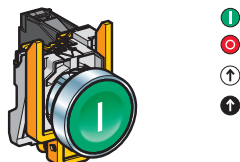
## Complete units

## Contact functions

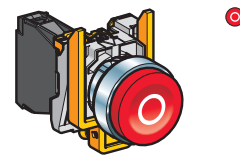
Pushbuttons, spring return,  
with chromium plated metal  
bezel



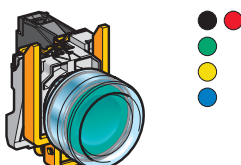
Flush push, unmarked  
XB4 BA1/BA42  
see page 1/62



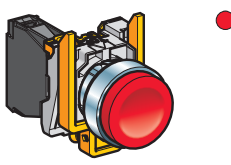
Flush push, with marking  
XB4 BA3311  
see page 1/64



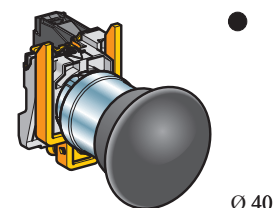
Projecting push, with marking  
XB4 BL4322  
see page 1/64



Booted flush push  
XB4 BP1/BP42  
see page 1/63

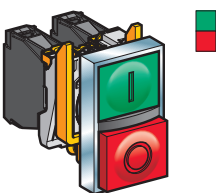


Projecting push, unmarked  
XB4 BL42  
see page 1/63

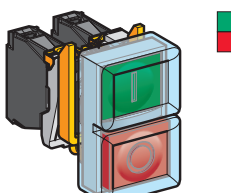


Mushroom head  
XB4 BC21  
see page 1/70

Double-headed pushbuttons,  
spring return, with  
chromium plated metal bezel

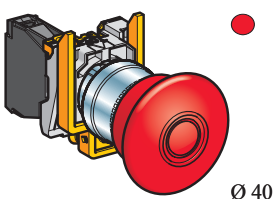


Flush push + projecting push  
XB4 BL845  
see page 1/69



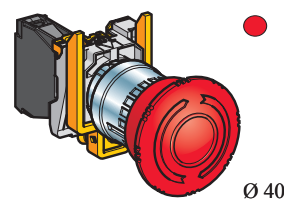
Booted flush push + projecting push  
XB4 BL945  
see page 1/69

Emergency mushroom head  
pushbuttons, Ø 40, with  
chromium plated metal bezel

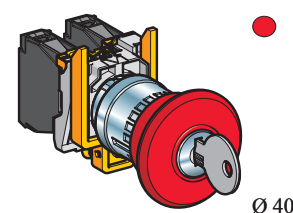


Emergency stop trigger  
action and mechanical  
latching

Push-pull (EN/ISO 13850: 2006)  
XB4 BT845  
see page 1/72



Turn to release (EN/ISO 13850: 2006)  
XB4 BS844  
see page 1/72



Key release (EN/ISO 13850: 2006)  
XB4 BS9445  
see page 1/72

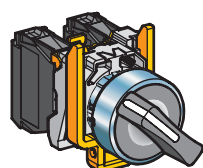
Emergency switching off  
mechanical latching

Push-pull (IEC 60364-5-53)  
XB4 BT42  
see page 1/73

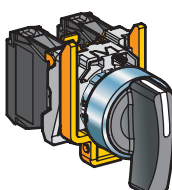
Turn to release (IEC 60364-5-53)  
XB4 BS542  
see page 1/73

Key release (IEC 60364-5-53)  
XB4 BS142  
see page 1/73

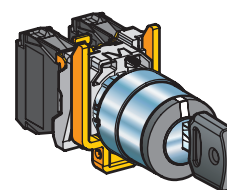
Selector switches and key  
switches, with chromium  
plated metal bezel



Standard handle, black  
XB4 BD  
see page 1/76



Long handle, black  
XB4 BJ  
see page 1/77

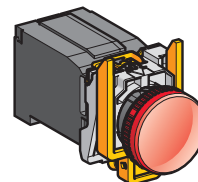
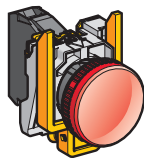
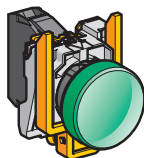


Key switch  
XB4 BG  
see page 1/78

## Complete units

## Signalling functions

## Pilot lights



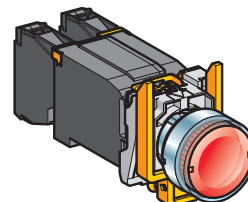
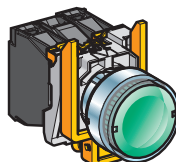
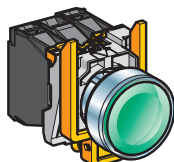
Integral LED

XB4 BVB●/BVG●/BVM●  
see page 1/82For bulb with BA 9s base fitting  
Direct supplyXB4 BV6●  
see page 1/83

Via integral transformer with secondary

XB4 BV3●/BV4●  
see page 1/83

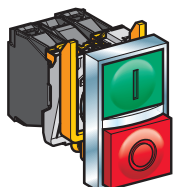
## Combined functions (contact + signalling)

Illuminated pushbuttons,  
spring return, flush push,  
chromium plated metal bezel

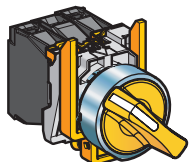
Integral LED

XB4 BW3●B5/BW3●G5/BW3●M5  
see page 1/65For bulb with BA 9s base fitting  
Direct supplyXB4 BW3●65  
see page 1/67

Via integral transformer

XB4 BW3●35/BW3●45  
see page 1/67Illuminated double-headed  
pushbuttons, spring return,  
chromium plated metal bezel

Integral LED

XB4 BW84●5  
see page 1/69Illuminated selector switches  
with standard handle,  
chromium plated metal bezel

Integral LED

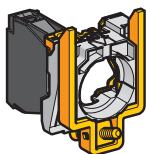
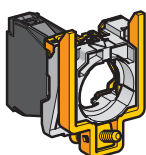
XB4 BK12●5, XB4 BK13●5  
see page 1/80

## Control and signalling units Ø 22

Harmony® XB4, metal

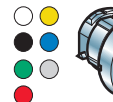
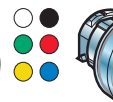
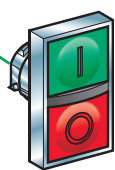
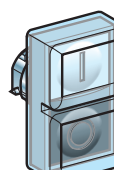
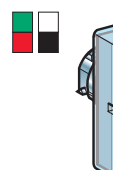
Pushbuttons, switches and pilot lights:  
sub-assemblies, ZB4 B

1

Non illuminated units  
for user assemblyFor pushbuttons,  
spring return, unmarkedBody  
sub-assembliesScrew clamp  
terminalsZB4 BZ10●/BZ141  
see page 1/86Faston  
ZB4 BZ10●3  
see page 1/90For pushbuttons,  
spring return, with markingFor double-headed  
pushbuttons, spring returnFor "push-push to release"  
pushbuttons

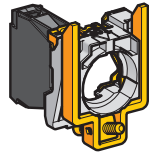
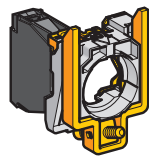
## Contact functions

## Head sub-assemblies, chromium plated or black metal bezel

Flush push  
without cap  
ZB4 BA0  
see page 1/62Flush push  
with set of 6 caps  
ZB4 BA9  
see page 1/62Flush push  
ZB4 BA●  
see page 1/62Flush push for  
insertion of legend  
ZB4 BA●8  
see page 1/62Projecting push  
ZB4 BL●  
see page 1/62Recessed push  
ZB4 BA●6  
see page 1/63Booted flush/  
projecting push  
ZB4 BP●/ BP●S  
see page 1/63Booted flush push  
for insertion of legend  
ZB4 BP●8  
see page 1/63Flush push  
ZB4 BA●3●/BA●4●  
ZB4 BA334/335  
see page 1/64Projecting push  
ZB4 BL●3●  
see page 1/64Flush pushes (IP 40/IP 66)  
Unmarked/with marking  
ZB4 BA81●●  
see page 1/68  
ZB4 BA82●●  
see page 1/69ZB4 BA91●●  
see page 1/68  
ZB4 BA92●●  
see page 1/69Flush push + projecting push (IP 40/IP 66)  
Unmarked/with marking  
ZB4 BL83●●  
see page 1/68  
ZB4 BL84●●  
see page 1/69ZB4 BL93●●  
see page 1/68  
ZB4 BL94●●  
see page 1/69Flush push  
ZB4 BH0●  
see page 1/74Projecting push  
ZB4 BH●  
see page 1/74

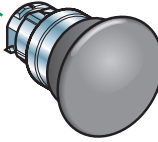
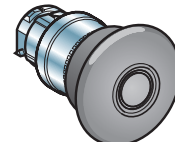
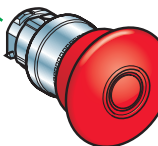
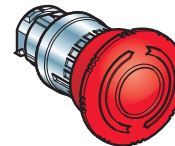
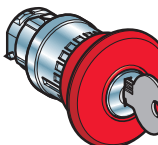
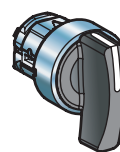
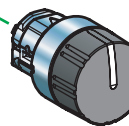
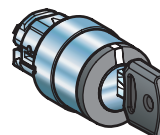
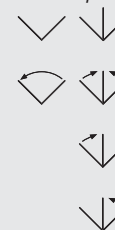
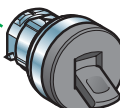
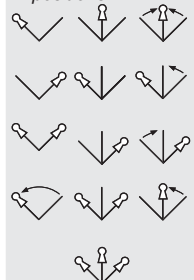
Non illuminated units  
for user assembly  
(continued)

## Contact functions

For mushroom head  
pushbuttonsScrew clamp terminals  
ZB4 BZ10●/BZ141  
page 1/86For mushroom head  
Emergency pushbuttonsEmergency stop trigger  
action and mechanical  
latchingFaston  
ZB4 BZ10●3  
page 1/90Emergency switching off  
mechanical latchingEmergency stop trigger  
action and mechanical  
latchingEmergency switching off  
mechanical latchingFor selector switches  
and key switches

For toggle switches

## Head sub-assemblies, chromium plated or black metal bezel

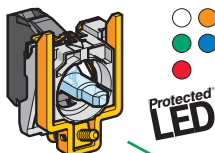

  
Ø 30  
Ø 40  
Ø 60
Spring return  
ZB4 BC●/BR●  
see page 1/70
  
Ø 30  
Ø 40  
Ø 60
Latching  
ZB4 B●2/BS●2/BS55  
see page 1/71
  
Ø 30  
Ø 40  
Ø 60
Push-pull (EN/ISO 13850: 2006)  
ZB4 BT84  
see page 1/72
  
Ø 30  
Ø 40  
Ø 60
Turn to release (EN/ISO 13850: 2006)  
ZB4 BS8●4  
see page 1/72Push-pull (IEC 60364-5-3)  
ZB4 BT4/BX4  
see page 1/73Turn to release (IEC 60364-5-3)  
ZB4 BS44/BS54/BS64  
see page 1/73
  
Ø 30  
Ø 40  
Ø 60
Key release (EN/ISO 13850: 2006)  
ZB4 BS9●4  
see page 1/72Key release (IEC 60364-5-3)  
ZB4 BS74/BS14/BS24  
see page 1/73Standard black  
handle (1)  
ZB4 BD●  
page 1/76Long black handle  
(1)  
ZB4 BJ●  
page 1/77Knurled black knob  
(1)  
ZB4 BD●9  
page 1/79Key switch (2)  
ZB4 BG●●/  
BG●TEC10  
page 1/78(1) Switch handle  
and knob positions(2) Key switch  
positions  
Key withdrawal  
positions2-position lever (3)  
ZB4 BD●8, see page 1/79

(3) Lever positions

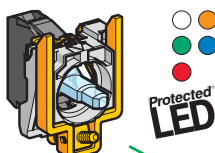


Pilot lights  
for user assembly

## Signalling functions

Body sub-assemblies  
with integral LED

Connection:  
screw clamp terminals  
**ZB4 BVJ/BVB/BVG/  
BVM**  
page 1/94

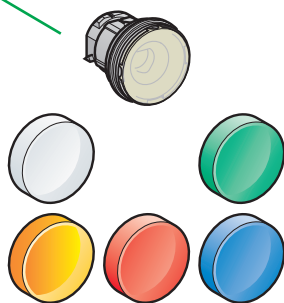


Connection: plug-in  
connector  
**ZB4 BVB•4/BVG•4/  
BVM•4**  
please consult your  
Regional Sales Office

## Head sub-assemblies



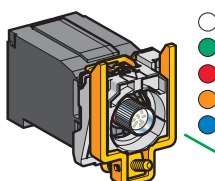
With lens fitted  
**ZB4 BV0•3**  
see page 1/82



With 5 separate lenses, not fitted  
**ZB4 BV003**  
see page 1/82

Body sub-assemblies  
for BA 9s bulb

Direct supply  
Connection:  
screw clamp terminals  
**ZB4 BV6**  
page 1/97

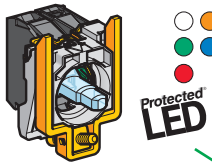
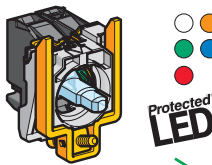
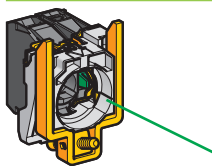


Via integral transformer  
Connection: screw clamp  
terminals  
**ZB4 BV•D•**  
page 1/97

## Head sub-assemblies

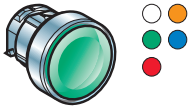


With lens fitted  
**ZB4 BV0•, ZB4 BV0•S**  
see page 1/83

Illuminated  
pushbuttons  
for user assemblyFor illuminated  
pushbuttons,  
spring returnBody sub-assemblies  
with integral LEDScrew clamp terminals  
ZB4 BW0B/BW0G/  
BW0M  
page 1/90For double-headed  
pushbuttons, spring  
return, with pilot lightPlug-in connector  
ZB4 BW0B...4  
please consult your  
Regional Sales OfficeFor illuminated  
"push-push to release"  
pushbuttons and  
illuminated selector  
switches with standard  
handleBody sub-assemblies  
for BA 9s bulbDirect supply or via  
integral transformer  
Screw clamp terminals  
ZB4 BW0...  
page 1/96

## Combined functions (contact + signalling)

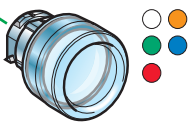
## Head sub-assemblies, chromium plated or black metal bezel



Flush push

ZB4 BW3...3  
page 1/66Flush push with  
illuminated ringZB4 BW9...3  
page 1/66

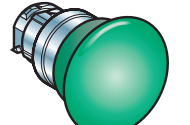
Flush push for insertion of legend

ZB4 BA...8  
page 1/66

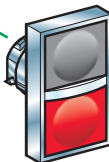
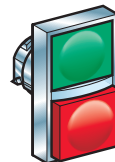
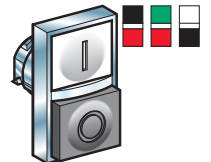
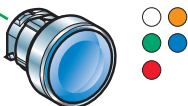
Booted flush push

ZB4 BW5...3  
page 1/66

Projecting push

ZB4 BW1...3,  
ZB4 BW1...3S  
page 1/66

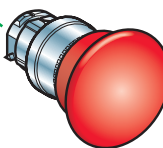
Mushroom head, spring return

ZB4 BW4...3  
page 1/70Flush push  
Unmarked/with markingZB4 BW81...3  
page 1/68Flush push + projecting push  
Unmarked/with markingZB4 BW82...3  
page 1/69Flush push + projecting push  
Unmarked/with markingZB4 BW83...3  
page 1/68Flush push + projecting push  
Unmarked/with markingZB4 BW84...3  
page 1/69

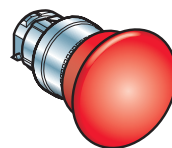
Flush or projecting "push-push to release"

ZB4 BH0...3/BH...3  
see page 1/75

Selector switches with standard handle

ZB4 BK1...3  
see page 1/80

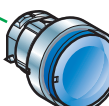
Mushroom head, latching

ZB4 BW6...3  
see page 1/71

Push-pull

ZB4 BW643  
see page 1/73For illuminated  
pushbuttons,  
spring return

## Head sub-assemblies, chromium plated or black metal bezel



Flush push

ZB4 BW3...  
ZB4 BW3...S  
page 1/67

Projecting push

ZB4 BW1...  
ZB4 BW1...S  
page 1/67



## Environment

Protective treatment standard version			"TH"
Ambient air temperature around the device	Storage	°C	- 40...+ 70
	Operation	°C	- 25...+ 70: LED and neon bulb versions - 25...+ 55: incandescent bulb version
Electric shock protection	Conforming to IEC 60536		Class I
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switch)
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
Resistance to high pressure washer		Pa	70 x 10 <sup>5</sup> (70 bar); distance: 0.1 m Temperature: 55°C
Mechanical shock protection	Conforming to IEC 50102		Non illuminated heads: IK 03 Illuminated heads: IK 05 Selector switch heads: IK 06
Conforming to standards			EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5, EN/IEC 60204-1 and EN/ISO 13850: 2006 (Emergency stop trigger action and mechanical latching pushbuttons, see page 1/72), IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons, see page 1/73), JIS C 4520, UL 508, CSA C22-2 n° 14
Product certifications	UL Listed, CSA		Standard single contacts with screw clamp terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD4 PA/ZD4 PA: A600; R300 Special contact blocks: □ ZBE 201: A300; Q300 □ ZBE 202: A600; Q600
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300
	BV, RINA, LROS, DNV, GL		Standard single contacts and double contacts with screw clamp terminals:
Terminal referencing	Conforming to EN 50005 and EN 50013		

## Characteristics of contact or combined contact and signalling functions (see page 1/60)

### Mechanical characteristics

Contact operation	N/C or N/O		Slow break
Positive operation	Conforming to EN/IEC 60947-5-1 appendix K		All functions incorporating a N/C contact have positive opening operation
Operating travel (to change the electrical state)	Pushbutton	mm	Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3
Operating force	Pushbutton	N	Changing N/C state: 3.5 Changing N/O state: 3.8
	Additional contact only (extra to change state)	N	Single N/C contact: 2 Single N/O contact: 2.3
		N	Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6
	Emergency stop or Emergency switching off with N/C + N/O	N	Standard push-pull: 45 Trigger action push-pull: 50
		N	Standard turn to release and key release: 40 Standard turn to release and key release, trigger action: 44



## Characteristics of contact or combined contact and signalling functions (continued) (see page 1/60)

Mechanical characteristics (continued)				
Operating torque (to change the electrical state)	Selector switches		N.m	N/O contact: 0.14
	Additional contact only		N.m	N/O contact: 0.05
Mechanical durability (in millions of operating cycles)	Pushbutton	Spring return		5
		Double-headed		1
		Push-push to release		0.5
	Selector switch	Non illuminated		1
		Illuminated		0.5
	Toggle switch			0.5
	Emergency stop or Emergency switching off pushbutton			0.3 with 3 contacts
	Joystick controller			1
	Standard contact block only			5
	Low power switching contact block only (dust protected)			0.5
Vibration resistance	Conforming to IEC 60068-2-6			Frequency: 2 to 500 Hz: 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27			All functions except mushroom head pushbuttons, spring return: □ half sine wave acceleration 11 ms: 50 gn □ half sine wave acceleration 18 ms: 30 gn
				Mushroom head pushbutton, spring return □ half sine wave acceleration 11 ms: 10 gn
Electrical characteristics				
Cabling capacity	Conforming to EN60947-1		mm <sup>2</sup>	Screw clamp terminals Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screw (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (max 1.2 N.m)
Contact material	Silver alloy (Ag / Ni)			Standard single and double blocks with screw clamp terminals Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)			Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection
Short-circuit protection	Conforming to EN/IEC 60947-5-1		A	Standard single and double blocks with screw clamp terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector: 4 (gG cartridge fuse conforming to IEC 60269-1) Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)
Rated thermal current	Conforming to EN/IEC 60947-5-1		A	Standard single and double blocks with screw clamp terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6
Rated insulation voltage	Conforming to EN60947-1		V	Standard single and double blocks with screw clamp terminals: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston connectors: Ui = 250, degree of pollution 3 Standard blocks for printed circuit board connection: Ui = 250, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN60947-1		kV	Standard single and double blocks with screw clamp terminals: Uimp = 6 Blocks for plug-in connector: Uimp = 4 Standard blocks for printed circuit board connection: Uimp = 4

# Characteristics of contact or combined contact and signalling functions (continued) (see page 1/60)

## Electrical characteristics (continued)

### Rated operational characteristics

Conforming to EN/IEC 60947-5-1

a.c. supply:  
utilisation category AC-15

Standard single and double blocks with screw clamp terminals: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A

Blocks for plug-in connector:  
A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A  
Standard blocks for printed circuit board connection:

B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A

Special contact blocks:

- ZBE 201: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V)
- ZBE 202: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A

d.c. supply:  
utilisation category DC-13

Standard single and double blocks with screw clamp terminals:  
Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A

Joystick controllers XD4 PA/ZD4 PA:  
R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A

Blocks for plug-in connector:  
R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A

Standard blocks for printed circuit board connection:  
R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A

Special contact blocks:

- ZBE 201: Q300: Ue = 125 V and Ie = 0.55 A or Ue = 250 V and Ie = 0.27 A
- ZBE 202: Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A

### Characteristics of special contact blocks for low power switching

VA  
A  
V

P max: 12  
I max: 0.1  
U max: 24

### Electrical durability

Conforming to EN/IEC 60947-5-1 appendix C  
Operating rate 3600 operating cycles/hour  
Load factor: 0.5

a.c. supply for 1 million operating cycles  
utilisation category AC-15

V  
A

Standard single blocks with screw clamp terminals:

24 120 230  
4 3 2

V  
A

Standard double blocks with screw clamp terminals and blocks for plug-in connector:

24 120 230  
3 1.5 1

d.c. supply for 1 million operating cycles  
utilisation category DC-13

V  
A

Standard single blocks with screw clamp terminals:

24 110  
0.5 0.2

V  
A

Standard double blocks with screw clamp terminals and blocks for plug-in connector:

24 110  
0.4 0.15

### Electrical reliability

Failure rate  
Conforming to EN/IEC 60947-5-4

In clean environment

Standard blocks:  
- at 17 V and 5 mA.  $\lambda < 10^{-8}$   
- at 5 V and 1 mA.  $\lambda < 10^{-6}$ 

- Special blocks with gold flashed contacts, for low power switching:  
- at 5 V and 1 mA.  $\lambda < 10^{-7}$ 

In dusty environment

Special blocks with gold flashed contacts and dust protection for low power switching only:  
- at 5 V and 1 mA,  $\lambda < 10^{-7}$

#### Characteristics of illuminated units (pilot lights)

Mechanical characteristics			
Vibration resistance	Conforming to IEC 60068-2-6		Frequency: 12 to 500 Hz: 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27		Half sine wave acceleration 11 ms: 50 gn Half sine wave acceleration 18 ms: 30 gn
Electrical characteristics			
Cabling capacity	Conforming to EN60947-1	mm <sup>2</sup>	Screw clamp terminals Min: 1 x 0.22 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end
Rated insulation voltage	Conforming to EN60947-1	V	Direct supply pilot light blocks (BA 9s bulb): Ui = 250, degree of pollution 3 Pilot light blocks with integral LED: Ui = 250, degree of pollution 3 Pilot light blocks with transformer: Ui = 600, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN60947-1	kV	Direct supply pilot light blocks (BA 9s bulb): Uimp = 4 Pilot light blocks with integral LED: Uimp = 4 Pilot light blocks with transformer: Uimp = 6

#### Specific characteristics of single light blocks with integral LED

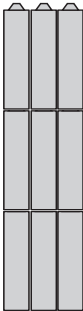
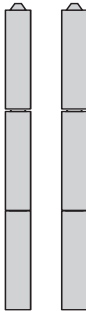
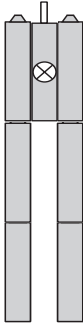
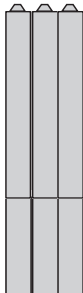
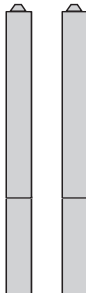
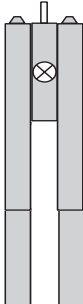
Voltage limits	For rated voltage	V	12 V: 10 to 15 ~; 10.2 to 13.8 ~ 24 V: 19.2 to 30 ~; 21.6 to 26.4 ~ 24 to 120 V: 19.2 to 132 ~; 21.6 to 132 ~ 48 to 120 V: 40 to 132 ~ 230/240 V: 195 to 264 ~
Current consumption	Applicable to all colours	mA	Blocks with ~ 12 V supply: 18 Blocks with ~ 24 V supply: 18 Blocks with ~ 120 V supply: 14 Blocks with ~ 240 V supply: 14
Service life	At rated voltage and at an ambient temperature of 25 °C	H	100 000
Surge withstand	Conforming to IEC 61000-4-5	kV	1
Resistance to fast transients	Conforming to IEC 61000-4-4	kV	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	V/m	10
Resistance to electrostatic discharges	Conforming to IEC 61000-4-2	kV	8: in free air, in insulating parts 6: on contact, on metal parts
Direct parallel connection across inductive load e.g.: contactor coil or solenoid	Maximum power of load	VA	For high power applications (≥ 30 VA), a ZBZ V• LED suppressor must be connected across the light block terminals (see page 1/93)
Electromagnetic emission	Conforming to IEC 55011		Class B

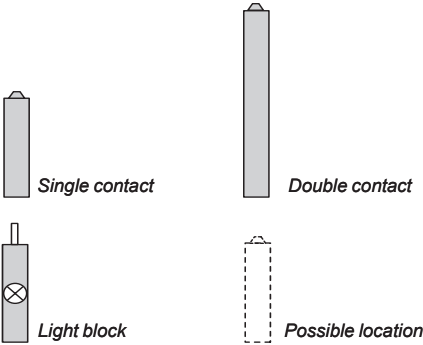
#### Specific characteristics

Body/fixing collar			
Tightening torque of fixing screw		N.m	0.8 (max 1.2)
Hour counters and annunciators			
Voltage limits	Hour counter and annunciator		± 10% of the nominal voltage
Current consumption	Hour counter	mA	XB5 DSB: 7 to 15 XB5 DSG: 8 XB5 DSM: 8
	Annunciator	mA	5

1

Maximum recommended configurations guaranteeing achievement of catalogue characteristics

Unit type (complete units XB4 B, heads ZB4 B)		Pushbuttons, spring return XB4 BA●, ZB4 BA● (except ZB4 BA●8), XB4 BC●, ZB4 BC●, XB4 BL●, ZB4 BL●, XB4 BP●, ZB4 BP●, ZB4 BR●	Double-headed pushbuttons XB4 BL●45, ZB4 BL8●, ZB4 BA8●, ZB4 BA9●, ZB4 BL9●	Illuminated pushbuttons XB4 BW●, ZB4 BW●, ZB4 BA●8 Illuminated double-headed pushbuttons XB4 BW84●, ZB4 BW8●●●●3	
Solution using single contacts					
Solution using single and double contacts					
Maximum recommended configurations		9 3 + 3 —	6 2 + 2 —	6 2 + 2 1	
		Single contacts			
		Double contacts + single contacts			
		Light block			



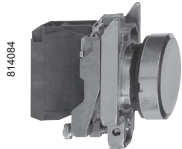
Emergency stop or Emergency switching off XB4 BT●, ZB4 BT●, XB4 BS●, ZB4 BS●		Selector switches ■ Standard handle XB4 BD●, ZB4 BD●, ■ Long handle XB4 BJ●, ZB4 BJ●, ■ Knurled knob ZB4 BD●9, ■ Key switch XB4 BG●, ZB4 BG●		Illuminated selector switches with standard handle XB4 BK●, ZB4 BK●		Toggle switches ZB4 BD●8	Pushbuttons, push-push ZB4 BH●	Illuminated pushbuttons push-push ZB4 BH●3
							—	—
4	4	5	4	6	4	6	3	2
2	1	2	1	2	2	3	—	—
+	+	+	+	+	+	+	—	—
0	2	1	2	2	0	0	—	1
—	—	—	—	—	1	—	—	—

### Sequence of contacts fitted to selector switch bodies

Unit type			Selector switches	
			2-position	3-position
			315°	45°
			315°	0°
			45°	45°
Push	Position	Up		
		Down		
			Location	Location
			State	State
Contacts			N/O	N/O
			N/C	N/C
L left, C centre, R right				
□ open, ■ closed				

Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see pages 1/98 and 1/100

1



XB4 BA31



ZB4 BA0



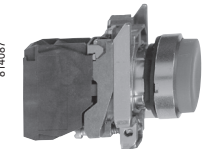
ZB4 BA4



ZB4 BA38



ZB4 BA34



XB4 BL42



ZB4 BL1

Pushbuttons with flush push <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
		N/O	N/C			kg
<b>Complete units</b>						
	Flush	1	–	White	<b>XB4 BA11</b> (ZB4 BZ101 + ZB4 BA1)	0.080
				Black	<b>XB4 BA21</b> (ZB4 BZ101 + ZB4 BA2)	0.080
				Green	<b>XB4 BA31</b> (ZB4 BZ101 + ZB4 BA3)	0.080
				Yellow	<b>XB4 BA51</b> (ZB4 BZ101 + ZB4 BA5)	0.080
				Blue	<b>XB4 BA61</b> (ZB4 BZ101 + ZB4 BA6)	0.080
		–	1	Red	<b>XB4 BA42</b> (ZB4 BZ102 + ZB4 BA4)	0.080

**Heads only**

	Without cap <sup>(2)</sup>			–	<b>ZB4 BA0</b>	0.028
	Flush, with set of 6 coloured caps			6 colours <sup>(3)</sup>	<b>ZB4 BA9</b>	0.038
	Flush			White	<b>ZB4 BA1</b>	0.029
				Black	<b>ZB4 BA2</b>	0.029
				Green	<b>ZB4 BA3</b>	0.029
				Red	<b>ZB4 BA4</b>	0.029
				Yellow	<b>ZB4 BA5</b>	0.029
				Blue	<b>ZB4 BA6</b>	0.029
				Grey	<b>ZB4 BA8</b>	0.029
	Flush with transparent cap for insertion of legend <sup>(4)</sup>			White	<b>ZB4 BA18</b>	0.028
				Green	<b>ZB4 BA38</b>	0.028
				Red	<b>ZB4 BA48</b>	0.028
				Yellow	<b>ZB4 BA58</b>	0.028
				Blue	<b>ZB4 BA68</b>	0.028
	Flush (high bezel)			White	<b>ZB4 BA14</b>	0.034
				Black	<b>ZB4 BA24</b>	0.034
				Green	<b>ZB4 BA34</b>	0.034
				Red	<b>ZB4 BA44</b>	0.034
				Yellow	<b>ZB4 BA54</b>	0.034
				Blue	<b>ZB4 BA64</b>	0.034

Pushbuttons with projecting push <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
		N/O	N/C			kg
<b>Complete units</b>						
	Projecting	–	1	Red	<b>XB4 BL42</b> (ZB4 BZ102 + ZB4 BL4)	0.081
<b>Heads only</b>						
	Projecting			White	<b>ZB4 BL1</b>	0.030
				Black	<b>ZB4 BL2</b>	0.030
				Green	<b>ZB4 BL3</b>	0.030
				Red	<b>ZB4 BL4</b>	0.030
				Yellow	<b>ZB4 BL5</b>	0.030
				Blue	<b>ZB4 BL6</b>	0.030

**Heads with black metal bezel**

To order, add a figure 7 to the references listed from above.

Example: **ZB4 BA0** becomes **ZB4 BA07**.<sup>(1)</sup> Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.<sup>(2)</sup> Coloured cap to be ordered separately: see page 1/98.<sup>(3)</sup> Head supplied with 6 different coloured caps (white, black, green, red, yellow, blue) not fitted.<sup>(4)</sup> For legend ordering information, see page 1/102.

Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see pages 1/98 and 1/100

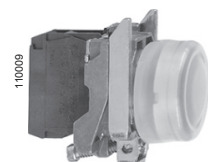
# Control and signalling units Ø 22

Harmony® XB4, metal

Spring return pushbuttons, unmarked



ZB4 BA36



XB4 BP21



ZB4 BP18



ZB4 BP2S



ZB4 BP183

## Pushbuttons with recessed push <sup>(1)</sup>

### High guard

Shape of head	Type of push	Colour	Reference	Weight kg
<b>Heads only</b>				
	Recessed (high guard)	White	<b>ZB4 BA16</b>	0.034
		Black	<b>ZB4 BA26</b>	0.034
		Green	<b>ZB4 BA36</b>	0.034
		Red	<b>ZB4 BA46</b>	0.034
		Yellow	<b>ZB4 BA56</b>	0.034
		Blue	<b>ZB4 BA66</b>	0.034

## Pushbuttons with silicone booted head for severe environments <sup>(1)</sup>

### Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight kg
		N/O	N/C			
<b>Complete units</b>						
	Booted, clear silicone (colour of push unobscured)	1	—	Black	<b>XB4 BP21</b> (ZB4 BZ101 + ZB4 BP2)	0.082
				Green	<b>XB4 BP31</b> (ZB4 BZ101 + ZB4 BP3)	0.082
				Yellow	<b>XB4 BP51</b> (ZB4 BZ101 + ZB4 BP5)	0.082
				Blue	<b>XB4 BP61</b> (ZB4 BZ101 + ZB4 BP6)	0.082
		—	1	Red	<b>XB4 BP42</b> (ZB4 BZ102 + ZB4 BP4)	0.082

### Silicone booted heads only, with increased protection (IP 69K)

	Flush	Clear boot <sup>(2)</sup> For insertion of protected legend within head <sup>(3)</sup>	White	<b>ZB4 BP18</b>	0.034
			Green	<b>ZB4 BP38</b>	0.034
			Red	<b>ZB4 BP48</b>	0.034
			Yellow	<b>ZB4 BP58</b>	0.034
			Blue	<b>ZB4 BP68</b>	0.034
	Projecting	Clear boot <sup>(2)</sup>	White	<b>ZB4 BP1</b>	0.031
			Black	<b>ZB4 BP2</b>	0.031
			Green	<b>ZB4 BP3</b>	0.031
			Red	<b>ZB4 BP4</b>	0.031
			Yellow	<b>ZB4 BP5</b>	0.031
			Blue	<b>ZB4 BP6</b>	0.031

### Silicone booted heads only, standard for mouting with legend holder (IP 66)

	Flush	Coloured boot <sup>(4)</sup>	White	<b>ZB4 BP1S</b>	0.034
			Black	<b>ZB4 BP2S</b>	0.034
			Green	<b>ZB4 BP3S</b>	0.034
			Red	<b>ZB4 BP4S</b>	0.034
			Yellow	<b>ZB4 BP5S</b>	0.034
			Blue	<b>ZB4 BP6S</b>	0.034
		Clear membrane <sup>(4)</sup> For insertion of protected legend within head <sup>(3)</sup>	White	<b>ZB4 BP183</b>	0.026
			Green	<b>ZB4 BP383</b>	0.026
			Red	<b>ZB4 BP483</b>	0.026
			Yellow	<b>ZB4 BP583</b>	0.026
			Blue	<b>ZB4 BP683</b>	0.026

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: **ZB4 BP18** becomes **ZB4 BP187**.

<sup>(1)</sup> Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

<sup>(2)</sup> Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.

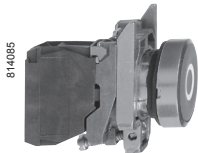
<sup>(3)</sup> To order a legend for insertion within the head, see page 1/101.

<sup>(4)</sup> Replacement of silicone protection element without dismantling head, see page 1/99.



Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see pages 1/98 and 1/100

1



XB4 BA4322



ZB4 BA331



ZB4 BA334



ZB4 BL432

## Pushbuttons with flush or projecting push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact		Marking Text (colour)	Colour of push	Reference	Weight
							kg
		N/O	N/C				
<b>Complete units</b>							
	Flush	1	–	"I" (white)	Green	<b>XB4 BA3311</b> (ZB4 BZ101 + ZB4 BA331)	0.080
	Flush	–	1	"O" (white)	Red	<b>XB4 BA4322</b> (ZB4 BZ102 + ZB4 BA432)	0.080
	Projecting	–	1	"O" (white)	Red	<b>XB4 BL4322 ▲</b> (ZB4 BZ102 + ZB4 BL432)	0.080
	Flush (2)	1	–	↑ (black)	White	<b>XB4 BA3341</b> (ZB4 BZ101 + ZB4 BA334)	0.080
	Flush (2)	1	–	↓ (white)	Black	<b>XB4 BA3351</b> (ZB4 BZ101 + ZB4 BA335)	0.080
<b>Heads only</b>							
	Flush			"I" (white)	Green	<b>ZB4 BA331</b>	0.029
				"I" (black)	White	<b>ZB4 BA131</b>	0.029
				"II" (white)	Green	<b>ZB4 BA336</b>	0.029
				"II" (black)	White	<b>ZB4 BA136</b>	0.029
				"START" (white)	Green	<b>ZB4 BA333</b>	0.029
				"START" (black)	White	<b>ZB4 BA133</b>	0.029
				"ON" (white)	Green	<b>ZB4 BA341</b>	0.029
				"ON" (black)	White	<b>ZB4 BA141</b>	0.029
				"MARCHE" (white)	Green	<b>ZB4 BA342</b>	0.029
				"MARCHE" (black)	White	<b>ZB4 BA142</b>	0.029
				(white)	Black	<b>ZB4 BA245</b>	0.029
				(black)	White	<b>ZB4 BA145</b>	0.029
				"O" (white)	Red	<b>ZB4 BA432</b>	0.029
					Black	<b>ZB4 BA232</b>	0.029
				"ARRET" (white)	Red	<b>ZB4 BA433</b>	0.029
					Black	<b>ZB4 BA233</b>	0.029
				"STOP" (white)	Red	<b>ZB4 BA434</b>	0.029
					Black	<b>ZB4 BA234</b>	0.029
				"OFF" (white)	Red	<b>ZB4 BA435</b>	0.029
					Black	<b>ZB4 BA235</b>	0.029
				↑ (black) (2)	White	<b>ZB4 BA334</b>	0.029
				↓ (white) (2)	Black	<b>ZB4 BA335</b>	0.029
				"O" (white)	Red	<b>ZB4 BL432</b>	0.030
					Black	<b>ZB4 BL232</b>	0.030
				"ARRET" (white)	Red	<b>ZB4 BL433</b>	0.030
					Black	<b>ZB4 BL233</b>	0.030
				"STOP" (white)	Red	<b>ZB4 BL434</b>	0.030
					Black	<b>ZB4 BL234</b>	0.030
				"OFF" (white)	Red	<b>ZB4 BL435</b>	0.030
					Black	<b>ZB4 BL235</b>	0.030
	Projecting			"O" (white)	Red	<b>ZB4 BL432</b>	0.030
					Black	<b>ZB4 BL232</b>	0.030
				"ARRET" (white)	Red	<b>ZB4 BL433</b>	0.030
					Black	<b>ZB4 BL233</b>	0.030
				"STOP" (white)	Red	<b>ZB4 BL434</b>	0.030
					Black	<b>ZB4 BL234</b>	0.030
				"OFF" (white)	Red	<b>ZB4 BL435</b>	0.030
					Black	<b>ZB4 BL235</b>	0.030

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.  
Example: **ZB4 BA331** becomes **ZB4 BA3317**.

- (1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.  
(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

▲ Available:  
2<sup>nd</sup> quarter 2008.

General :  
page 1/48

Characteristics :  
page 1/56

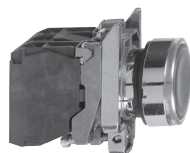
Dimensions :  
page 1/110

Assembly of other products using:  
body/contact assemblies: see page 1/86 combined  
sub-assemblies: see page 1/90  
accessories: see page 1/100

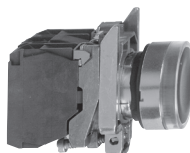
# Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated pushbuttons, spring return, with integral LED



XB4 BW33B5



XB4 BW34G5

Illuminated pushbuttons with flush push <sup>(1)</sup>							
Screw clamp terminal connections (Schneider Electric anti-retightening system)							
Shape of head	Description	Type of contact		Supply voltage	Colour of push	Reference	Weight
		N/O	N/C	V			kg
Complete units - With plain lens							
	Integral LED	1	1	~ 24 50/60 Hz	White	<b>XB4 BW31B5</b> (ZB4 BW0B15 + ZB4 BW313)	0.097
					Green	<b>XB4 BW33B5</b> (ZB4 BW0B35 + ZB4 BW333)	0.097
					Red	<b>XB4 BW34B5</b> (ZB4 BW0B45 + ZB4 BW343)	0.097
					Orange	<b>XB4 BW35B5</b> (ZB4 BW0B55 + ZB4 BW353)	0.097
					Blue	<b>XB4 BW36B5</b> (ZB4 BW0B65 + ZB4 BW363)	0.097
				~ 110...120 50/60 Hz	White	<b>XB4 BW31G5</b> (ZB4 BW0G15 + ZB4 BW313)	0.097
					Green	<b>XB4 BW33G5</b> (ZB4 BW0G35 + ZB4 BW333)	0.097
					Red	<b>XB4 BW34G5</b> (ZB4 BW0G45 + ZB4 BW343)	0.097
					Orange	<b>XB4 BW35G5</b> (ZB4 BW0G55 + ZB4 BW353)	0.097
					Blue	<b>XB4 BW36G5</b> (ZB4 BW0G65 + ZB4 BW363)	0.097
				~ 230...240 50/60 Hz	White	<b>XB4 BW31M5</b> (ZB4 BW0M15 + ZB4 BW313)	0.097
					Green	<b>XB4 BW33M5</b> (ZB4 BW0M35 + ZB4 BW333)	0.097
					Red	<b>XB4 BW34M5</b> (ZB4 BW0M45 + ZB4 BW343)	0.097
					Orange	<b>XB4 BW35M5</b> (ZB4 BW0M55 + ZB4 BW353)	0.097
					Blue	<b>XB4 BW36M5</b> (ZB4 BW0M65 + ZB4 BW363)	0.097

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

Assembly of other products using:  
combined sub-assemblies: see page 1/90  
accessories: see page 1/60

1



ZB4 BW333







ZB4 BW563




ZB4 BW113



## Illuminated pushbuttons with flush push (1)

Shape of head	Type of push	Colour	Reference	Weight kg
<b>Heads only (2) - With plain lens</b>				
 Protected LED	Flush	White	ZB4 BW313	0.026
		Green	ZB4 BW333	0.026
		Red	ZB4 BW343	0.026
		Orange	ZB4 BW353	0.026
		Blue	ZB4 BW363	0.026
 Protected LED	Flush with illuminated ring	White	ZB4 BW913	0.026
		Green	ZB4 BW933	0.026
		Red	ZB4 BW943	0.026
		Orange	ZB4 BW953	0.026
		Blue	ZB4 BW963	0.026
 Protected LED	Flush with clear boot	White	ZB4 BW513	0.031
		Green	ZB4 BW533	0.031
		Red	ZB4 BW543	0.031
		Orange	ZB4 BW553	0.031
		Blue	ZB4 BW563	0.031
 Protected LED	Flush for insertion of legend (3)	White	ZB4 BA18	0.028
		Green	ZB4 BA38	0.028
		Red	ZB4 BA48	0.028
		Orange	ZB4 BA58	0.028
		Blue	ZB4 BA68	0.028

## Heads only (2) - With grooved lens (4)

 Protected LED	Flush	White	ZB4 BW313S	0.026
		Green	ZB4 BW333S	0.026
		Red	ZB4 BW343S	0.026
		Orange	ZB4 BW353S	0.026
		Blue	ZB4 BW363S	0.026

## Illuminated pushbuttons with projecting push (1)

Shape of head	Type of push	Colour	Reference	Weight kg
Heads only (2) - With plain lens				
 Protected LED	Projecting	White	ZB4 BW113	0.029
		Green	ZB4 BW133	0.029
		Red	ZB4 BW143	0.029
		Orange	ZB4 BW153	0.029
		Blue	ZB4 BW163	0.029
Heads only (2) - With grooved lens (4)				
 Protected LED	Projecting	White	ZB4 BW113S	0.026
		Green	ZB4 BW133S	0.026
		Red	ZB4 BW143S	0.026
		Orange	ZB4 BW153S	0.026
		Blue	ZB4 BW163S	0.026

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: ZB4 BW313 becomes ZB4 BW3137.

Example 2: ZB4 BW313S becomes ZB4 BW313S7.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

(2) Only for use with bodies comprising a light source with integral LED.

(3) For legend ordering information, see page 1/100.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).

# Control and signalling units Ø 22



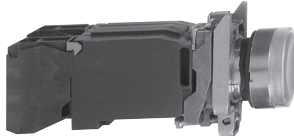
Harmony® XB4, metal

Illuminated pushbuttons, spring return,  
with BA 9s base fitting

1

## Illuminated pushbuttons with flush push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact		Supply voltage	Colour of push	Reference	Weight
							
		N/O	N/C	V			kg
<b>Complete units - With plain lens</b>							
	<b>Direct supply</b> for bulb with BA 9s base fitting, 2.4 W max (bulb not included)	1	1	≤ 250	White	<b>XB4 BW3165</b> (ZB4 BW065 + ZB4 BW31)	0.097
					Green	<b>XB4 BW3365</b> (ZB4 BW065 + ZB4 BW33)	0.097
					Red	<b>XB4 BW3465</b> (ZB4 BW065 + ZB4 BW34)	0.097
					Orange	<b>XB4 BW3565</b> (ZB4 BW065 + ZB4 BW35)	0.097
	<b>Via integral transformer</b> 1.2 VA, 6 V secondary, incandescent bulb with BA 9s base fitting (bulb included)	1	1	~110...120 50/60 Hz	White	<b>XB4 BW3135</b> (ZB4 BW035 + ZB4 BW31)	0.169
					Green	<b>XB4 BW3335</b> (ZB4 BW035 + ZB4 BW33)	0.169
					Red	<b>XB4 BW3435</b> (ZB4 BW035 + ZB4 BW34)	0.169
					Orange	<b>XB4 BW3535</b> (ZB4 BW035 + ZB4 BW35)	0.169
				~230 50 Hz ~220...240 60 Hz	White	<b>XB4 BW3145</b> (ZB4 BW045 + ZB4 BW31)	0.170
					Green	<b>XB4 BW3345</b> (ZB4 BW045 + ZB4 BW33)	0.170
					Red	<b>XB4 BW34M5</b> (ZB4 BW045 + ZB4 BW34)	0.170
					Orange	<b>XB4 BW3545</b> (ZB4 BW045 + ZB4 BW35)	0.170


XB4 BW3545

## Heads only (2) - With plain lens

	<b>Flush</b>	White	<b>ZB4 BW31</b>	0.027
		Green	<b>ZB4 BW33</b>	0.027
		Red	<b>ZB4 BW34</b>	0.027
		Orange	<b>ZB4 BW35</b>	0.027
		Blue	<b>ZB4 BW36</b>	0.027
		Clear	<b>ZB4 BW37</b>	0.027


ZB4 BW33

## Heads only (2) - With grooved lens (3)

	<b>Flush</b>	White	<b>ZB4 BW31S</b>	0.027
		Green	<b>ZB4 BW33S</b>	0.027
		Red	<b>ZB4 BW34S</b>	0.027
		Orange	<b>ZB4 BW35S</b>	0.027
		Blue	<b>ZB4 BW36S</b>	0.027
		Clear	<b>ZB4 BW37S</b>	0.027

## Illuminated pushbuttons with projecting push (1)

### Heads only (2) - With plain lens

	<b>Projecting</b>	White	<b>ZB4 BW11</b>	0.028
		Green	<b>ZB4 BW13</b>	0.028
		Red	<b>ZB4 BW14</b>	0.028
		Orange	<b>ZB4 BW15</b>	0.028
		Blue	<b>ZB4 BW16</b>	0.028
		Clear	<b>ZB4 BW17</b>	0.028

ZB4 BW14

### Heads only (2) - With grooved lens (3)

	<b>Projecting</b>	White	<b>ZB4 BW11S</b>	0.027
		Green	<b>ZB4 BW13S</b>	0.027
		Red	<b>ZB4 BW14S</b>	0.027
		Orange	<b>ZB4 BW15S</b>	0.027
		Blue	<b>ZB4 BW16S</b>	0.027
		Clear	<b>ZB4 BW17S</b>	0.027

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: **ZB4 BW31** becomes **ZB4 BW317**. Example 2: **ZB4 BW31S** becomes **ZB4 BW31S7**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60

(2) Only for use with bodies comprising a light source with BA9s base fitting bulb (incandescent, neon or LED).

(3) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
combined sub-assemblies: see page 1/90  
accessories: see pages 1/99 and 1/100

# Control and signalling units Ø 22

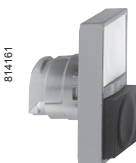
Harmony® XB4, metal

Double-headed pushbuttons, spring return, unmarked

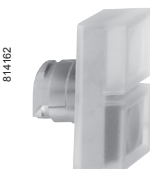
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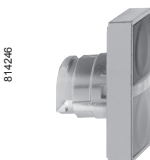
ZB4 BA8134



ZB4 BL8312



ZB4 BL9312



ZB4 BW812743

## Double-headed pushbuttons (1)

Shape of head	Description	Colour of pushes	Degree of protection	Reference	Weight kg
<b>Heads only</b>					
	2 flush pushes	Green Red	IP 40	<b>ZB4 BA8134</b>	0.047
			IP 66	<b>ZB4 BA9134</b>	0.052
		White Black	IP 40	<b>ZB4 BA8112</b>	0.047
			IP 66	<b>ZB4 BA9112</b>	0.052
	1 flush push 1 projecting push	Green Red	IP 40	<b>ZB4 BL8334</b>	0.046
			IP 66	<b>ZB4 BL9334</b>	0.051
		White Black	IP 40	<b>ZB4 BL8312</b>	0.046
			IP 66	<b>ZB4 BL9312</b>	0.051

## Double-headed pushbuttons with pilot light (IP 40) (1) (2)

Shape of head	Description	Colour of pushes	Colour of pilot light	Reference	Weight kg
<b>Heads only (3)</b>					
	1 flush push 1 central pilot light 1 flush push	Black Red	Clear (4)	<b>ZB4 BW812743</b>	0.047
		Green Red	Clear (4)	<b>ZB4 BW813743</b>	0.047
		White Black	Clear (4)	<b>ZB4 BW811723</b>	0.047
	1 flush push 1 central pilot light 1 projecting push	Black Red	Clear (4)	<b>ZB4 BW832743</b>	0.046
		Green Red	Clear (4)	<b>ZB4 BW833743</b>	0.046
		White Black	Clear (4)	<b>ZB4 BW831723</b>	0.046

## Heads with black metal bezel

To order, add a figure 7 to the references selected above.

Example: **ZB4 BA8134** becomes **ZB4 BA81347**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

(2) For a head with IP 66 degree of protection or NEMA type 4X, fit a clear sealing boot **ZBW 008**, see page 1/99.

(3) Only for use with bodies comprising a light source with integral LED.

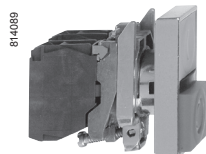
(4) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body sub-assembly.

Assembly of other products using:  
combined sub-assemblies: see page 1/90  
accessories: see pages 1/99 and 1/60

# Control and signalling units Ø 22

Harmony® XB4, metal

Double-headed pushbuttons, spring return, with marking



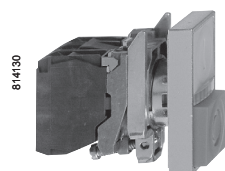
XB4 BL845



ZB4 BL8434



ZB4 BL8412



XB4 BW84B5



ZB4 BW823743



ZB4 BW841723

## Double-headed pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact		Colour of pushes	Degree of protection	Reference	Weight
							kg
		N/O	N/C				

### Complete units

	1 flush green push (marked "I")	1	1	Green	IP 40	<b>XB4 BL845</b>	0.106
	1 projecting red push (marked "O")			Red	IP 66	<b>XB4 BL945</b> (ZB4 BZ105 + ZB4 BL9434)	0.111

### Heads only

	2 flush pushes (marked "I") (marked "O")			Green	IP 40	<b>ZB4 BA8234</b>	0.047
				Red	IP 66	<b>ZB4 BA9234</b>	0.052
				White	IP 40	<b>ZB4 BA8212</b>	0.047
				Black	IP 66	<b>ZB4 BA9212</b>	0.052
	1 flush push (marked "I") 1 projecting push (marked "O")			Green	IP 40	<b>ZB4 BL8434</b>	0.046
				Red	IP 66	<b>ZB4 BL9434</b>	0.051
				White	IP 40	<b>ZB4 BL8412</b>	0.046
				Black	IP 66	<b>ZB4 BL9412</b>	0.051

## Double-headed pushbuttons with integral LED (IP 40) (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact		Supply voltage	Colour of pushes	Reference	Weight
							kg
		N/O	N/C	V			

### Complete units

	1 flush green push (marked "I") 1 yellow pilot light 1 projecting red push (marked "O")	1	1	~ 24 (50/60 Hz)	Green	<b>XB4 BW84B5</b>	0.116
				~ 110...120 (50/60 Hz)	Green	<b>XB4 BW84G5</b>	0.116
				~ 230...240 (50/60 Hz)	Green	<b>XB4 BW84M5</b>	0.116
				~ 230...240 (50/60 Hz)	Red	<b>XB4 BW84M5</b> (ZB4 BW0M55 + ZB4 BW843743)	0.116

### Heads only (3)

	1 flush push (marked "I") 1 clear central pilot light (4) 1 flush push (marked "O")				Black	<b>ZB4 BW822743</b>	0.047
					Red		
					Green	<b>ZB4 BW823743</b>	0.047
					Red		
					White	<b>ZB4 BW821723</b>	0.047
					Black		
	1 flush push (marked "I") 1 clear central pilot light (4) 1 projecting push (marked "O")				Black	<b>ZB4 BW842743</b>	0.046
					Red		
					Green	<b>ZB4 BW843743</b>	0.046
					Red		
					White	<b>ZB4 BW841723</b>	0.046
					Black		

### Heads with black metal bezel

To order, add a figure 7 to the references selected above.

Example: **ZB4 BA8234** becomes **ZB4 BA82347**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

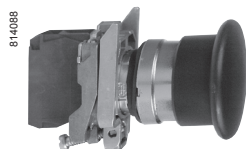
(2) For IP 66 degree of protection or NEMA type 4, fit a clear sealing boot **ZBW 008**, see page 1/99.

(3) Only for use with bodies comprising a light source with integral LED.

(4) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body sub-assembly.

Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see page 1/100

1



XB4 BC21



ZB4 BC24



ZB4 BC2



ZB4 BR2



ZB4 BR216



ZB4 BW443

## Mushroom head pushbuttons (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact		Push Ø (mm)	Colour	Reference	Weight kg
		N/O	N/C				

## Complete units

	Mushroom head	1	—	40	Black	<b>XB4 BC21</b> (ZB4 BZ101 + ZB4 BC2)	0.122
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## Heads only

	Mushroom head			30	Black	<b>ZB4 BC24</b>	0.075
					Green	<b>ZB4 BC34</b>	0.075
					Red	<b>ZB4 BC44</b>	0.075
					Yellow	<b>ZB4 BC54</b>	0.075
					Blue	<b>ZB4 BC64</b>	0.075
				40	Black	<b>ZB4 BC2</b>	0.074
					Green	<b>ZB4 BC3</b>	0.074
					Red	<b>ZB4 BC4</b>	0.074
					Yellow	<b>ZB4 BC5</b>	0.074
					Blue	<b>ZB4 BC6</b>	0.074
				60	Black	<b>ZB4 BR2</b>	0.093
					Green	<b>ZB4 BR3</b>	0.093
					Red	<b>ZB4 BR4</b>	0.093
					Yellow	<b>ZB4 BR5</b>	0.093
					Blue	<b>ZB4 BR6</b>	0.093
				60 (3)	Black	<b>ZB4 BR216</b>	0.054
				Hemispherical	Green	<b>ZB4 BR316</b>	0.054
					Red	<b>ZB4 BR416</b>	0.054
					Yellow	<b>ZB4 BR516</b>	0.054
					Blue	<b>ZB4 BR616</b>	0.054

## Illuminated mushroom head pushbuttons (1) (2)

Integral LED

Shape of head	Type of push	Push Ø (mm)	Colour	Reference	Weight kg
	Mushroom head	40	White	<b>ZB4 BW413</b>	0.051
			Green	<b>ZB4 BW433</b>	0.051
			Red	<b>ZB4 BW443</b>	0.051
			Orange	<b>ZB4 BW453</b>	0.051
			Blue	<b>ZB4 BW463</b>	0.051

## Heads with black metal bezel

To order, add a figure 7 to the references selected above.  
Example: **ZB4 BC24** becomes **ZB4 BC247**.

(1) These pushbuttons and heads cannot be used for an Emergency Stop function.

Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

(3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head: 6.

(4) Only for use with bodies comprising a light block with integral LED.



Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see page 1/100





## Control and signalling units Ø 22

Harmony® XB4, metal

Mushroom head pushbuttons, latching

1

## Mushroom head pushbuttons (1) (2)

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
<b>Heads only</b>					
	Push-pull	40	Black	<b>ZB4 BT2</b>	0.077
		60	Black	<b>ZB4 BX2</b>	0.095
	Turn to release	30	Black	<b>ZB4 BS42</b>	0.066
		40	Black	<b>ZB4 BS52</b>	0.070
		40	Yellow	<b>ZB4 BS55</b>	0.070
		60	Black	<b>ZB4 BS62</b>	0.090
	Key release (key n° 455) (2 keys included with head) (3)  (5)	30	Black	<b>ZB4 BS72</b>	0.066
		40	Black	<b>ZB4 BS12 (4)</b>	0.070
		60	Black	<b>ZB4 BS22</b>	0.090



ZB4 BT2




ZB4 BS62



ZB4 BS72

## Illuminated mushroom head pushbuttons (1) (2)

## Integral LED

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
<b>Heads only</b>					
	Mushroom head	40	White	<b>ZB4 BW613</b>	0.051
			Green	<b>ZB4 BW633</b>	0.051
			Orange	<b>ZB4 BW653</b>	0.051
			Blue	<b>ZB4 BW663</b>	0.051

## Heads with black metal bezel

To order, add a figure 7 to the references selected above.  
Example: **ZB4 BT2** becomes **ZB4 BT27**.

(1) These pushbuttons and heads cannot be used for an Emergency Stop function.

Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

(3) For specific keys with other numbers, please consult your Regional Sales Office.

(4) Other key numbers:


- key n° 421E: add suffix **12** to the reference.

- key n° 458A: add suffix **10** to the reference.

- key n° 520E: add suffix **14** to the reference.

- key n° 3131A: add suffix **20** to the reference.

Example: To order a Ø 40 black mushroom head for a latching pushbutton, with release by key n° 421E, the reference becomes: **ZB4 BS1212**.

(5) The symbol  indicates key withdrawal position(s).



Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see pages 1/105 and 1/106

# Control and signalling units Ø 22

Harmony® XB4, metal

Emergency stop devices

Conforming to EN/IEC 60204-1 and



EN/ISO 13850: 2006 and Machinery Directive 98/37/EC

1




Mushroom head Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

## Emergency stop trigger action and mechanical latching pushbuttons (1) (2)





Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Type of contact		Push		Reference	Weight kg
				Ø (mm)	Colour		
		N/O	N/C				

### Complete units

	Push-pull	1	1	40	Red	<b>XB4 BT845</b> (ZB4 BZ105 + ZB4 BT84)	0.136
	Turn to release	1	1	40	Red	<b>XB4 BS8445</b> (ZB4 BZ105 + ZB4 BS844)	0.130
		—	2	40	Red	<b>XB4 BS8444</b> (ZB4 BZ104 + ZB4 BS844)	0.130
		1	2	40	Red	<b>XB4 BS84441</b> (ZB4 BZ141 + ZB4 BS844)	0.140
	Key release (key n° 455)  (3)	1	1	40	Red	<b>XB4 BS9445</b> (ZB4 BZ105 + ZB4 BS944)	0.170

### Heads only

Shape of head	Type of reset	Push		Reference	Weight kg
		Ø mm	Colour		
	Push-pull	30	Red	<b>ZB4 BT844 ▲</b>	0.078
		40	Red	<b>ZB4 BT84</b>	0.078
		60	Red	<b>ZB4 BX84</b>	0.098
	Turn to release	30	Red	<b>ZB4 BS834</b>	0.068
		40	Red	<b>ZB4 BS844</b>	0.073
		60	Red	<b>ZB4 BS864</b>	0.093
	Key release (key n° 455) 2 keys included with head (5)  (3)	30	Red	<b>ZB4 BS934</b>	0.094
		40	Red	<b>ZB4 BS944 (4)</b>	0.098
		60	Red	<b>ZB4 BS964</b>	0.118

### Bellows for harsh environments (IP 69K)

For use in	Material	Colour	Sold in lots of	Unit reference	Weight kg
Environments subject to humidity, dust, high pressure cleaning, etc.	Silicone	Red	2	<b>ZBZ 48</b>	0.009
	EPDM	Black	2	<b>ZBZ 28</b>	0.009
		Yellow	2	<b>ZBZ 58</b>	0.009


### Heads with black metal bezel

To order, add a figure 7 to the references selected above.

Example: **ZB4 BT844** becomes **ZB4 BT8447**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.
- key n° 458A: add suffix **10** to the reference.
- key n° 520E: add suffix **14** to the reference.
- key n° 3131A: add suffix **20** to the reference.
- key n° 4A185: add suffix **D** to the reference.

Example: To order a Ø 40 red mushroom head for a trigger action and mechanical latching Emergency Stop pushbutton, with release by key n° 421E, the reference becomes: **ZB4 BS94412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

▲ Available:  
2<sup>nd</sup> quarter 2008.

General :  
page 1/48

Characteristics :  
page 1/56

Dimensions :  
page 1/110

Assembly of other products using:  
body/contact assemblies: see page 1/86 combined  
sub-assemblies: see page 1/90  
accessories: see pages 1/105 and 1/106

# Control and signalling units Ø 22

Harmony® XB4, metal



Emergency switching off devices

Conforming to IEC 60364-5-53





Mushroom head switching off mechanical latching pushbuttons conform to standards IEC 60364-5-53 and EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

## Emergency switching off, mechanical latching pushbuttons <sup>(1) (2)</sup>





Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Type of contact	Push Ø mm	Colour	Reference	Weight kg
		 N/O  N/C				

### Complete units


	Push-pull	—	1	40	Red	<b>XB4 BT42</b> (ZB4 BZ102 + ZB4 BT4)	0.125
	Turn to release	—	1	40	Red	<b>XB4 BS542</b> (ZB4 BZ102 + ZB4 BS54)	0.118
	Key release (key n° 455)  (3)	—	1	40	Red	<b>XB4 BS142</b> (ZB4 BZ102 + ZB4 BS14)	0.133

### Heads only

	Push-pull			30	Red	<b>ZB4 BT44 ▲</b>	0.077
				40	Red	<b>ZB4 BT4</b>	0.077
				60	Red	<b>ZB4 BX4</b>	0.095
	Turn to release			30	Red	<b>ZB4 BS44</b>	0.066
				40	Red	<b>ZB4 BS54</b>	0.070
				60	Red	<b>ZB4 BS64</b>	0.090
	Key release (key n° 455) 2 keys included with head (5)  (3)			30	Red	<b>ZB4 BS74</b>	0.066
				40	Red	<b>ZB4 BS14 (4)</b>	0.070
				60	Red	<b>ZB4 BS24</b>	0.090

## Illuminated Emergency switching off, mechanical latching pushbuttons <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Push Ø mm	Colour	Reference	Weight kg
	Push-pull	40	Red	<b>ZB4 BW643</b>	0.051


### Heads with black metal bezel

To order, add a figure 7 to the references selected above.

Example: **ZB4 BT4** becomes **ZB4 BT47**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.

- key n° 458A: add suffix **10** to the reference.

- key n° 520E: add suffix **14** to the reference.

- key n° 3131A: add suffix **20** to the reference.

Example: To order a Ø 40 red mushroom head for a trigger action and mechanical latching Emergency Stop pushbutton, with release by key n° 421E, the reference becomes: **ZB4 BS1412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

(6) Only for use with bodies comprising a light source with integral LED.

▲ Available:  
2<sup>nd</sup> quarter 2008.

General :  
page 1/48

Characteristics :  
page 1/56

Dimensions :  
page 1/110

Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see page 1/100



1

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ZB4 BH02

## Pushbuttons with flush push (1)

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only				
	Without cap (2)	–	ZB4 BH0	0.028
	Flush	White	ZB4 BH01	0.029
		Black	ZB4 BH02	0.029
		Green	ZB4 BH03	0.029
		Red	ZB4 BH04	0.029
		Yellow	ZB4 BH05	0.029
		Blue	ZB4 BH06	0.029

## Pushbuttons with projecting push (1)

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only				
	Projecting	White	ZB4 BH1	0.029
		Black	ZB4 BH2	0.029
		Green	ZB4 BH3	0.029
		Red	ZB4 BH4	0.029
		Yellow	ZB4 BH5	0.029
		Blue	ZB4 BH6	0.029

523792



ZB4 BH6

## Heads with black metal bezel

To order, add a figure 7 to the references selected above.  
Example: ZB4 BH01 becomes ZB4 BH017.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

(2) Caps to be ordered separately, see page 1/98

Assembly of other products using:  
combined sub-assemblies: see page 1/90  
accessories: see page 1/100


# Control and signalling units Ø 22


## Harmony® XB4, metal

### Illuminated pushbuttons, push-push, with integral LED



ZB4 BH033

Illuminated pushbuttons with flush push <sup>(1)</sup>				
Shape of head	Type of push	Colour of lens	Reference	Weight kg
Heads only <sup>(2)</sup>				
	Flush	White	ZB4 BH013	0.026
		Green	ZB4 BH033	0.026
		Red	ZB4 BH043	0.026
		Orange	ZB4 BH053	0.026
		Blue	ZB4 BH063	0.026

Illuminated pushbuttons with projecting push <sup>(1)</sup>				
Shape of head	Type of push	Colour of lens	Reference	Weight kg
Heads only <sup>(2)</sup>				
	Projecting	White	ZB4 BH13	0.026
		Green	ZB4 BH33	0.026
		Red	ZB4 BH43	0.026
		Orange	ZB4 BH53	0.026
		Blue	ZB4 BH63	0.026



ZB4 BH63

#### Heads with black metal bezel

To order, add a figure 7 to the references selected above.  
Example: ZB4 BH013 becomes ZB4 BH0137.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

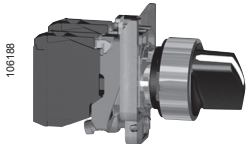
(2) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see page 1/100

Control and signalling units Ø 22

Harmony® XB4, metal  
Selector switches with standard handle

1





XB4 BD33









ZB4 BD4

Selector switches with standard handle (1)








Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact		Positions		Reference	Weight
				Number	Type		
		N/O	N/C				kg


Complete units

	Standard handle, black	1	–	2-position 90°	Stay put		<b>XB4 BD21</b> (ZB4 BZ101 + ZB4 BD2)	0.095
		1	–		Spring return from right to left		<b>XB4 BD41</b> (ZB4 BZ101 + ZB4 BD4)	0.100
		1	1		Stay put		<b>XB4 BD25</b> (ZB4 BZ105 + ZB4 BD2)	0.095
		2	–	3-position ± 45°	Stay put		<b>XB4 BD33</b> (ZB4 BZ103 + ZB4 BD3)	0.095
					Spring return to centre		<b>XB4 BD53</b> (ZB4 BZ103 + ZB4 BD5)	0.095

Heads only

	Standard handle, black			2-position 90°	Stay put		<b>ZB4 BD2</b>	0.040
					Spring return from right to left		<b>ZB4 BD4</b>	0.045
				3-position ± 45°	Stay put		<b>ZB4 BD3</b>	0.040
					Spring return to centre		<b>ZB4 BD5</b>	0.040
					Spring return from left to centre		<b>ZB4 BD7</b>	0.040
					Spring return from right to centre		<b>ZB4 BD8</b>	0.040

Heads only with other coloured handles

	Standard handle, white	add suffix <b>01</b> to the reference, example: <b>ZB4 BD201</b>
	Standard handle, green	add suffix <b>03</b> to the reference, example: <b>ZB4 BD203</b>
	Standard handle, red	add suffix <b>04</b> to the reference, example: <b>ZB4 BD204</b>
	Standard handle, yellow	add suffix <b>05</b> to the reference, example: <b>ZB4 BD205</b>
	Standard handle, blue	add suffix <b>06</b> to the reference, example: <b>ZB4 BD206</b>

Heads with black metal bezel

For heads with standard black handle only. To order, add the suffix 7 to the references selected from above.  
Example: **ZB4 BD2** becomes **ZB4 BD27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see page 1/100

# Control and signalling units Ø 22

































Harmony® XB4, metal

Selector switches with long handle: normal and padlockable

1

## Selector switches with long handle (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)


Shape of head	Type of operator	Type of contact		Positions		Reference	Weight
				Number	Type		
		N/O	N/C				kg
Complete units							
	Long handle, black	1	—	2-position 90°	Stay put	 <b>XB4 BJ21</b> (ZB4 BZ101 + ZB4 BJ2)	0.096
		2	—	3-position ± 45°	Stay put	 <b>XB4 BJ33</b> (ZB4 BZ103 + ZB4 BJ3)	0.096
					Spring return to centre	 <b>XB4 BJ53</b> (ZB4 BZ103 + ZB4 BJ5)	0.096
Heads only							
	Long handle, black			2-position 90°	Stay put	 <b>ZB4 BJ2</b>	0.040
					Spring return from right to left	 <b>ZB4 BJ4</b>	0.045
		3-position ± 45°	Stay put	 <b>ZB4 BJ3</b>	0.040		
Spring return to centre	 <b>ZB4 BJ5</b>		0.040				
Spring return from left to centre	 <b>ZB4 BJ7</b>		0.040				
Spring return from right to centre	 <b>ZB4 BJ8</b>		0.040				
	Long handle, padlockable (2)			2-position 90°	Stay put	 <b>ZB4 BJ291</b>	0.048
						 <b>ZB4 BJ292</b>	0.048
						 <b>ZB4 BJ294</b>	0.048
					Spring return from right to left	 <b>ZB4 BJ491</b>	0.054
		3-position ± 45°	Stay put	 <b>ZB4 BJ391</b>	0.048		
				 <b>ZB4 BJ392</b>	0.048		
				 <b>ZB4 BJ393</b>	0.048		
				 <b>ZB4 BJ394</b>	0.048		
				 <b>ZB4 BJ395</b>	0.048		
				 <b>ZB4 BJ396</b>	0.048		
				 <b>ZB4 BJ397</b>	0.048		
				Spring return to centre	 <b>ZB4 BJ593</b>	0.048	
		Spring return from right to centre	 <b>ZB4 BJ891</b>	0.048			
				 <b>ZB4 BJ893</b>	0.048		
				 <b>ZB4 BJ895</b>	0.048		
		Spring return from left to centre	 <b>ZB4 BJ792</b>	0.048			
				 <b>ZB4 BJ793</b>	0.048		
				 <b>ZB4 BJ796</b>	0.048		

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: **ZB4 BJ2** becomes **ZB4 BJ27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

(2) The symbol  indicates the padlocking positions.

Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see page 1/100

# Control and signalling units Ø 22

Harmony® XB4, metal



Key switches

Key n° 455, 421E, 458A, 520E, 3131A

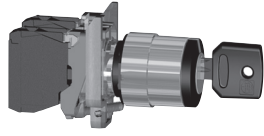





1

## Key switches (1) (2)



















### Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact		Positions		Reference	Weight
				Number	Type		
		N/O	N/C				kg

### Complete units

	Key switch with key n° 455	1	—	2-position 90°	Stay put		<b>XB4 BG21</b> (ZB4 BZ101 + ZB4 BG2)	0.153
							<b>XB4 BG41</b> (ZB4 BZ101 + ZB4 BG4)	0.153
					Spring return to left		<b>XB4 BG61</b> (ZB4 BZ101 + ZB4 BG6)	0.153
		2	—	3-position ± 45°	Stay put		<b>XB4 BG03</b> (ZB4 BZ103 + ZB4 BG0)	0.153
							<b>XB4 BG33</b> (ZB4 BZ103 + ZB4 BG3)	0.153


### Heads only

	Key switch with key n° 455 (3) (4)			2-position 90°	Stay put		<b>ZB4 BG2</b>	0.098
							<b>ZB4 BG02</b>	0.098
							<b>ZB4 BG4</b>	0.098
				3-position ± 45°	Spring return from right to left		<b>ZB4 BG6</b>	0.098
					Stay put		<b>ZB4 BG0</b>	0.098
							<b>ZB4 BG03</b>	0.098
							<b>ZB4 BG04</b>	0.098
							<b>ZB4 BG3</b>	0.098
							<b>ZB4 BG5</b>	0.098
							<b>ZB4 BG9</b>	0.098
							<b>ZB4 BG09</b>	0.098
					Spring return from left to centre		<b>ZB4 BG1</b>	0.098
							<b>ZB4 BG01</b>	0.098
					Spring return to centre		<b>ZB4 BG7</b>	0.098
					Spring return from right to centre		<b>ZB4 BG8</b>	0.098
							<b>ZB4 BG05</b>	0.098
							<b>ZB4 BG08</b>	0.098

### Heads with black metal bezel

To order, add a figure 7 to the references selected from above. Example: **ZB4 BG2** becomes **ZB4 BG27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

(2) The symbol  indicates key withdrawal position(s).

(3) Other key numbers:

- key n° 421E: add suffix **12** to the reference.
- key n° 458A: add suffix **10** to the reference.
- key n° 520E: add suffix **14** to the reference.
- key n° 3131A: add suffix **20** to the reference.

Example: For a switch head with key n° 421E, 2-position stay put, with key withdrawal from the left-hand position, the reference becomes: **ZB4 BG212**.

(4) For specific keys with other numbers, please consult your Regional Sales Office.











# Control and signalling units Ø 22

Harmony® XB4, metal








Key switches with key TEC10

Selector switches with knurled knob - Toggle switches




## Key switches with key TEC10

Shape of head	Type of operator	Positions Number	Type	Reference	Weight kg
<b>Heads only</b>					
	Key switch with key TEC10	2-position 90°	Stay put	 ZB4 BG2TEC10	0.160
				 ZB4 BG4TEC10	0.160
			Spring return from right to left	 ZB4 BG6TEC10	0.170
		3-position ± 45°	Stay put	 ZB4 BG0TEC10	0.160
				 ZB4 BG3TEC10	0.160
				 ZB4 BG5TEC10	0.160
				 ZB4 BG9TEC10	0.160
			Spring return to centre	 ZB4 BG7TEC10	0.170
			Spring return from right to centre	 ZB4 BG05TEC10	0.170

## Selector switches with knurled knob (1)

Shape of head	Type of operator	Positions Number	Type	Reference	Weight kg
<b>Heads only</b>					
	Black knurled knob	2-position 90°	Stay put	 ZB4 BD29	0.043
			Spring return from right to left	 ZB4 BD49	0.050
		3-position ± 45°	Stay put	 ZB4 BD39	0.040
			Spring return to centre	 ZB4 BD59	0.040
			Spring return from left to centre	 ZB4 BD79	0.040
			Spring return from right to centre	 ZB4 BD89	0.040

## Toggle switches (1)

Shape of head	Type of operator	Positions Number	Type	Reference	Weight kg
<b>Heads only</b>					
	Black lever	2-position 90°	Stay put	 ZB4 BD28	0.026
			Spring return	 ZB4 BD48	0.026

## Heads with black metal bezel

To order, add a figure 7 to the references selected from above.  
Example: ZB4 BD29 becomes ZB4 BD297.

For the references with key TEC10, add the 7 before TEC10.  
Example: ZB4 BG2TEC10 becomes ZB4 BG27TEC10.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.



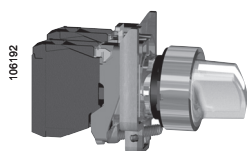
Assembly of other products using:  
combined sub-assemblies: see page 1/90  
accessories: see page 1/100

# Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated selector switches with standard handle,  
with integral LED

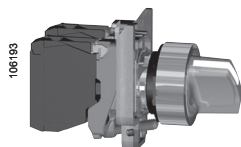
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XB4 BK123B5






Protected  
LED



XB4 BK134B5

## Illuminated selector switches with standard handle, with integral LED <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact	Positions Number Type	Supply voltage	Colour of handle	Reference	Weight	
		 N/O	 N/C					
				V			kg	
Complete units								
  <b>Protected LED</b>	Standard handle	1	1	2-position Stay put  90°	~ 24 (50/60 Hz)	Green	<b>XB4 BK123B5</b> (ZB4 BW0B35 + ZB4 BK1233)	0.101
						Red	<b>XB4 BK124B5</b> (ZB4 BW0B45 + ZB4 BK1243)	0.101
						Orange	<b>XB4 BK125B5</b> (ZB4 BW0B55 + ZB4 BK1253)	0.101
					~ 110...120 (50/60 Hz)	Green	<b>XB4 BK123G5</b> (ZB4 BW0G35 + ZB4 BK1233)	0.101
					Red	<b>XB4 BK124G5</b> (ZB4 BW0G45 + ZB4 BK1243)	0.101	
					Orange	<b>XB4 BK125G5</b> (ZB4 BW0G55 + ZB4 BK1253)	0.101	
					~ 230...240 (50/60 Hz)	Green	<b>XB4 BK123M5</b> (ZB4 BW0M35 + ZB4 BK1233)	0.101
					Red	<b>XB4 BK124M5</b> (ZB4 BW0M45 + ZB4 BK1243)	0.101	
					Orange	<b>XB4 BK125M5</b> (ZB4 BW0M55 + ZB4 BK1253)	0.101	
		1	1	3-position Stay put  ± 45°	~ 24 (50/60 Hz)	Green	<b>XB4 BK133B5</b> (ZB4 BW0B35 + ZB4 BK1333)	0.101
						Red	<b>XB4 BK134B5</b> (ZB4 BW0B45 + ZB4 BK1343)	0.101
						Orange	<b>XB4 BK135B5</b> (ZB4 BW0B55 + ZB4 BK1353)	0.101
					~ 110...120 (50/60 Hz)	Green	<b>XB4 BK133G5</b> (ZB4 BW0G35 + ZB4 BK1333)	0.101
					Red	<b>XB4 BK134G5</b> (ZB4 BW0G45 + ZB4 BK1343)	0.101	
					Orange	<b>XB4 BK135G5</b> (ZB4 BW0G55 + ZB4 BK1353)	0.101	
					~ 230...240 (50/60 Hz)	Green	<b>XB4 BK133M5</b> (ZB4 BW0M35 + ZB4 BK1333)	0.101
					Red	<b>XB4 BK134M5</b> (ZB4 BW0M45 + ZB4 BK1343)	0.101	
					Orange	<b>XB4 BK135M5</b> (ZB4 BW0M55 + ZB4 BK1353)	0.101	










(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

# Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated selector switches with standard handle,  
with integral LED

## Illuminated selector switches with standard handle, with integral LED (continued) (1)

Shape of head	Type of operator	Positions			Colour of handle	Reference	Weight kg
		Number	Type				
<b>Heads only (2)</b>							
 	Standard handle	2-position 90°	Stay put		White	<b>ZB4 BK1213</b>	0.036
					Green	<b>ZB4 BK1233</b>	0.036
					Red	<b>ZB4 BK1243</b>	0.036
					Orange	<b>ZB4 BK1253</b>	0.036
					Blue	<b>ZB4 BK1263</b>	0.036
					White	<b>ZB4 BK1413</b>	0.037
					Green	<b>ZB4 BK1433</b>	0.037
					Red	<b>ZB4 BK1443</b>	0.037
					Orange	<b>ZB4 BK1453</b>	0.037
					Blue	<b>ZB4 BK1463</b>	0.037
 <b>ZB4 BK1343</b>		3-position ± 45°	Stay put		White	<b>ZB4 BK1313</b>	0.036
					Green	<b>ZB4 BK1333</b>	0.036
					Red	<b>ZB4 BK1343</b>	0.036
					Orange	<b>ZB4 BK1353</b>	0.036
					Blue	<b>ZB4 BK1363</b>	0.036
					White	<b>ZB4 BK1513</b>	0.036
					Green	<b>ZB4 BK1533</b>	0.036
					Red	<b>ZB4 BK1543</b>	0.036
					Orange	<b>ZB4 BK1553</b>	0.036
					Blue	<b>ZB4 BK1563</b>	0.036
					White	<b>ZB4 BK1813</b>	0.036
					Green	<b>ZB4 BK1833</b>	0.036
					Red	<b>ZB4 BK1843</b>	0.036
					Orange	<b>ZB4 BK1853</b>	0.036
					Blue	<b>ZB4 BK1863</b>	0.036
					White	<b>ZB4 BK1713</b>	0.036
					Green	<b>ZB4 BK1733</b>	0.036
					Red	<b>ZB4 BK1743</b>	0.036
					Orange	<b>ZB4 BK1753</b>	0.036
					Blue	<b>ZB4 BK1763</b>	0.036

### Heads with black metal bezel

To order, add a figure 7 to the references selected from above.  
Example: **ZB4 BK1213** becomes **ZB4 BK12137**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/60.

(2) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:  
body/light assemblies: see page 1/94  
accessories: see pages 1/98 and 1/100


1









XB4 BVB5

## Pilot lights with integral LED

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Supply voltage V	Colour	Reference	Weight kg
<b>Complete units</b>				
■ With plain lens				
 <b>Protected LED</b>	~ 24 (50/60 Hz)	White	<b>XB4 BVB1</b> (ZB4 BVB1 + ZB4 BV013)	0.080
		Green	<b>XB4 BVB3</b> (ZB4 BVB3 + ZB4 BV033)	0.080
		Red	<b>XB4 BVB4</b> (ZB4 BVB4 + ZB4 BV043)	0.080
		Orange	<b>XB4 BVB5</b> (ZB4 BVB5 + ZB4 BV053)	0.080
		Blue	<b>XB4 BVB6</b> (ZB4 BVB6 + ZB4 BV063)	0.080
	~ 110...120 (50/60 Hz)	White	<b>XB4 BVG1</b> (ZB4 BVG1 + ZB4 BV013)	0.080
		Green	<b>XB4 BVG3</b> (ZB4 BVG3 + ZB4 BV033)	0.080
		Red	<b>XB4 BVG4</b> (ZB4 BVG4 + ZB4 BV043)	0.080
		Orange	<b>XB4 BVG5</b> (ZB4 BVG5 + ZB4 BV053)	0.080
		Blue	<b>XB4 BVG6</b> (ZB4 BVG6 + ZB4 BV063)	0.080
	~ 230...240 (50/60 Hz)	White	<b>XB4 BVM1</b> (ZB4 BVM1 + ZB4 BV013)	0.080
		Green	<b>XB4 BVM3</b> (ZB4 BVM3 + ZB4 BV033)	0.080
		Red	<b>XB4 BVM4</b> (ZB4 BVM4 + ZB4 BV043)	0.080
		Orange	<b>XB4 BVM5</b> (ZB4 BVM5 + ZB4 BV053)	0.080
		Blue	<b>XB4 BVM6</b> (ZB4 BVM6 + ZB4 BV063)	0.080

## Heads only (1)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
■ With plain lens				
	Integral LED only 	White	<b>ZB4 BV013</b>	0.026
		Green	<b>ZB4 BV033</b>	0.026
		Red	<b>ZB4 BV043</b>	0.026
		Orange	<b>ZB4 BV053</b>	0.026
		Blue	<b>ZB4 BV063</b>	0.026
		5 colours (2) (3)	<b>ZB4 BV003</b>	0.026
■ With plain lens, for insertion of legend (3)				
	Integral LED only 	White	<b>ZB4 BV013E</b>	0.026
		Green	<b>ZB4 BV033E</b>	0.026
		Red	<b>ZB4 BV043E</b>	0.026
		Orange	<b>ZB4 BV053E</b>	0.026
		Blue	<b>ZB4 BV063E</b>	0.026
■ With grooved lens (4)				
	Integral LED only 	White	<b>ZB4 BV013S</b>	0.026
		Green	<b>ZB4 BV033S</b>	0.026
		Red	<b>ZB4 BV043S</b>	0.026
		Orange	<b>ZB4 BV053S</b>	0.026
		Blue	<b>ZB4 BV063S</b>	0.026



ZB4 BV063



ZB4 BV043S

(1) Only for use with bodies comprising a light source with integral LED.

(2) Head supplied with 5 different coloured lenses (white, green, red, orange, blue) not fitted, for insertion of legend.

(3) For legend ordering information: see page 1/100.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).



XB4 BV64


### Pilot lights with BA 9s base fitting, with plain lens

Screw clamp terminal connections (Schneider Electric anti-retightening system)


Shape of head	Supply voltage V	Colour	Reference	Weight kg
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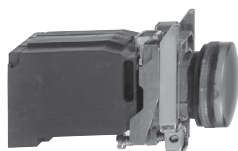
#### Complete units - With plain lens

■ Direct supply, for BA 9s bulb,  $U \leq 250$  V, 2.4 W max (bulb not included)

	$\leq 250$	White	<b>XB4 BV61</b> (ZB4 BV6 + ZB4 BV01)	0.075
		Green	<b>XB4 BV63</b> (ZB4 BV6 + ZB4 BV03)	0.075
		Red	<b>XB4 BV64</b> (ZB4 BV6 + ZB4 BV04)	0.075
		Orange	<b>XB4 BV65</b> (ZB4 BV6 + ZB4 BV05)	0.075

■ Via integral transformer, 1.2 VA, 6 V secondary, with BA 9s incandescent bulb (included)

	$\sim 110...120 - 50/60$ Hz	White	<b>XB4 BV31</b> (ZB4 BV3 + ZB4 BV01)	0.152
		Green	<b>XB4 BV33</b> (ZB4 BV3 + ZB4 BV03)	0.152
		Red	<b>XB4 BV34</b> (ZB4 BV3 + ZB4 BV04)	0.152
		Orange	<b>XB4 BV35</b> (ZB4 BV3 + ZB4 BV05)	0.152
	$\sim 230 - 50$ Hz $\sim 220...240 - 60$ Hz	White	<b>XB4 BV41</b> (ZB4 BV4 + ZB4 BV01)	0.152
		Green	<b>XB4 BV43</b> (ZB4 BV4 + ZB4 BV03)	0.152
		Red	<b>XB4 BV44</b> (ZB4 BV4 + ZB4 BV04)	0.152
		Orange	<b>XB4 BV45</b> (ZB4 BV4 + ZB4 BV05)	0.152




XB4 BV33

#### Heads only (1)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
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■ With plain lens

	With BA 9s base fitting	White	<b>ZB4 BV01</b>	0.027
		Green	<b>ZB4 BV03</b>	0.027
		Red	<b>ZB4 BV04</b>	0.027
		Orange	<b>ZB4 BV05</b>	0.027
		Blue	<b>ZB4 BV06</b>	0.027
		Clear	<b>ZB4 BV07</b>	0.027



ZB4 BV04

■ With grooved lens (2)

	With BA 9s base fitting	White	<b>ZB4 BV01S</b>	0.027
		Green	<b>ZB4 BV03S</b>	0.027
		Red	<b>ZB4 BV04S</b>	0.027
		Orange	<b>ZB4 BV05S</b>	0.027
		Blue	<b>ZB4 BV06S</b>	0.027
		Clear	<b>ZB4 BV07S</b>	0.027



ZB4 BV06S

(1) Only for use with bodies comprising a light source with BA 9s base fitting (incandescent, neon or LED).

(2) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
body/contact assemblies: see page 1/86  
accessories: see page 1/100

## Control and signalling units Ø 22

Harmony® XB4, metal

Specific functions


Pushbuttons for manual overload reset, hour counters, buzzers, fuse carrier

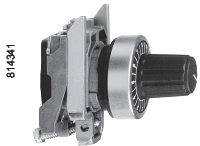
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XB4 BA8●1


### Manual overload reset pushbuttons

Shape of head	Travel mm	Actuation distance mm	Colour	Reference	Weight kg
	10	6...16	Black	<b>XB4 BA821</b>	0.037
			Red	<b>XB4 BA841</b>	0.037
			Blue	<b>XB4 BA861</b>	0.037
		16...26	Black	<b>XB4 BA822</b>	0.038
			Red	<b>XB4 BA842</b>	0.038
			Blue	<b>XB4 BA861</b>	0.038
	14	30...130	Black	<b>XB4 BA921</b>	0.058
			Red	<b>XB4 BA941</b>	0.058
			Blue	<b>XB4 BA961</b>	0.058
		130...257	Black	<b>XB4 BA922</b>	0.071
			Red	<b>XB4 BA942</b>	0.071
			Blue	<b>XB4 BA962</b>	0.071



ZB4 BD912

### Heads + mounting base for potentiometer (1)

Shape of head	Description	For use with	Reference	Weight kg
	For potentiometer with shaft length 45 to 50 mm	Ø 6 mm shaft	<b>ZB4 BD912</b>	0.080
		Ø 6.35 mm shaft	<b>ZB4 BD922</b>	0.080

### Hour counters

Characteristics	Supply voltage V	Reference	Weight kg
Indication 0...9999.9	~ 12...24 - 50/60 Hz	<b>XB5 DSB</b>	0.045
	~ 120 - 60 Hz	<b>XB5 DSG</b>	0.045
	~ 230...240 - 50 Hz	<b>XB5 DSM</b>	0.045



XB5 DS●



XB5 KS●

### Annunciators (IP 40 NEMA 1)

85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 1/116)	~ 24 - 50/60 Hz	<b>XB5 KSB</b>	0.035
	~ 120 - 50/60 Hz	<b>XB5 KSG</b>	0.035
	~ 230...240 - 50 Hz	<b>XB5 KSM</b>	0.035



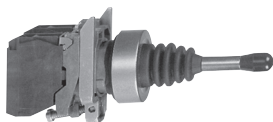
XB5 DT1S

### Fuse carrier

Description	For use with	Reference	Weight kg
Fuse carrier	5 x 20 mm fuse 6.3 A - 250 V	<b>XB5 DT1S</b>	0.022

(1) Potentiometer not included.

814332

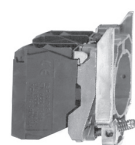


XD4 PA12

**Joystick controllers** (with 54 mm long operating shaft) (1)**Screw clamp terminal connections** (Schneider Electric anti-retightening system)

Description	Operation	Spring return to zero position	Reference	Weight kg
<b>Complete products</b>				
2-direction	1 notch 1 N/O contact per direction	Without	<b>XD4 PA12</b>	0.116
		With	<b>XD4 PA22</b>	0.116
4-direction	1 notch 1 N/O contact per direction	Without	<b>XD4 PA14</b>	0.133
		With	<b>XD4 PA24</b>	0.133

814346

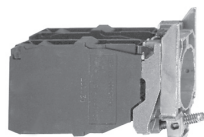


ZD4 PA103

**Sub-assemblies for joystick controllers**

Description	Functions	Reference	Weight kg
Complete body/contact assemblies	2-direction	<b>ZD4 PA103</b>	0.049
	4-direction	<b>ZD4 PA203</b>	0.058
Complete head assemblies with operating shaft	2-direction, stay put	<b>ZD4 PA12</b>	0.022
	2-direction, spring return to zero position	<b>ZD4 PA22</b>	0.022
	4-direction, stay put	<b>ZD4 PA14</b>	0.022
	4-direction, spring return to zero position	<b>ZD4 PA24</b>	0.022

814348



ZD4 PA203

814347



ZD4 PA12

Legends 30 x 48 mm for engraving	2-direction	Black one side Red reverse	<b>ZBG 2201</b>	0.001
		White one side Yellow reverse	<b>ZBG 2401</b>	0.001
Legends 48 x 48 mm for engraving	4-direction	Black one side Red reverse	<b>ZBG 4201</b>	0.002
		White one side Yellow reverse	<b>ZBG 4401</b>	0.002

109497



ZB4 BB2

**Wobblestick heads**

Shape of head	For use with	Colour	Reference	Weight kg
	Omnidirectional, spring return	Black	<b>ZB4 BB2</b>	0.058
		Red	<b>ZB4 BB4</b>	0.058

(1) Must not be used with standard contact blocks ZBE 10● (single) or ZBE 20● (double).

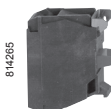
**Other versions**Joystick controllers and complete body/contact assemblies for joystick controllers with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

To combine with heads, see pages 1/62 to 1/84

1



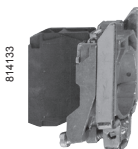
ZB4 BZ009



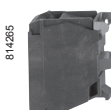
ZBE 101



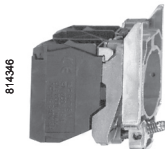
ZBE 203



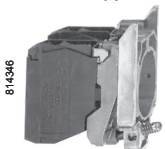
ZB4 BZ101



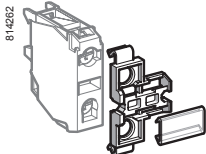
ZBE 201



ZB4 BZ106



ZB4 BZ107



ZBZ 001





XBY 2U



**Body/fixing collar**

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	ZB4 BZ009	0.038

**Contact functions (1)****Screw clamp terminal connections (Schneider Electric anti-retightening system)****Contacts for standard applications**

Description	Type of contact			Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	—	5	ZBE 101	0.011
		—	1	5	ZBE 102	0.011
	Double	2	—	5	ZBE 203	0.020
		—	2	5	ZBE 204	0.020
	Single with body/fixing collar	1	1	5	ZBE 205	0.020
		1	—	1	ZB4 BZ101	0.053
		—	1	1	ZB4 BZ102	0.053
		2	—	1	ZB4 BZ103	0.062
		—	2	1	ZB4 BZ104	0.062
		1	1	1	ZB4 BZ105	0.062
		1	2	1	ZB4 BZ141	0.072

**Contacts for specific applications**

Application	Type of contact	Description			Sold in lots of	Unit reference	Weight kg
Low power switching	Single	Standard	1	—	5	ZBE 1016	0.012
			—	1	5	ZBE 1026	0.012
		Dusty environment (2) (IP5X, 50 µm dust)	1	—	5	ZBE 1016P	0.012
			—	1	5	ZBE 1026P	0.012
Staggered contacts	Single	Early make	1	—	5	ZBE 201	0.011
		Late break	—	1	5	ZBE 202	0.011
		Overlapping	1	1	5	ZB4 BZ106	0.062
		Staggered	—	2	5	ZB4 BZ107	0.062
		Single with body/fixing collar	1	1	5	ZB4 BZ106	0.062
		Single with body/fixing collar	—	2	5	ZB4 BZ107	0.062

**Clip-on legend holders for electrical blocks with screw clamp terminal connections**

For use with	Sold in lots of	Unit reference	Weight kg
Identification of an XB4 B control or signalling unit	10	ZBZ 001	0.001

**Sheet of 50 blank legends**

Legend holder ZBZ 001	10	ZBY 001	0.023
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**"SIS Label" labelling software (for legends ZBY 001)**

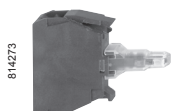
For legend design for English, French, German, Italian, Spanish	1	XBY 2U	0.100
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(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 1/60.

(2) It is not possible to fit an additional contact block on the back of these contact blocks.



To combine with:  
heads, see page 1/66



ZBV B●



ZBZ G156



ZBZ M156



ZBZ V●

## Light blocks

## Screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	~ 12 (50/60 Hz)	White	5	ZBV J1	0.017
		Green	5	ZBV J3	0.017
		Red	5	ZBV J4	0.017
		Orange	5	ZBV J5	0.017
		Blue	5	ZBV J6	0.017
	~ 24 (50/60 Hz)	White	5	ZBV B1	0.017
		Green	5	ZBV B3	0.017
		Red	5	ZBV B4	0.017
		Orange	5	ZBV B5	0.017
		Blue	5	ZBV B6	0.017
	~ 24...120 (50/60 Hz)	White	5	ZBV BG1	0.017
		Green	5	ZBV BG3	0.017
		Red	5	ZBV BG4	0.017
		Orange	5	ZBV BG5	0.017
		Blue	5	ZBV BG6	0.017
	~ 110...120 (50/60 Hz)	White	5	ZBV G1	0.017
		Green	5	ZBV G3	0.017
		Red	5	ZBV G4	0.017
		Orange	5	ZBV G5	0.017
		Blue	5	ZBV G6	0.017
	~ 230...240 (50/60 Hz)	White	5	ZBV M1	0.017
		Green	5	ZBV M3	0.017
		Red	5	ZBV M4	0.017
		Orange	5	ZBV M5	0.017
		Blue	5	ZBV M6	0.017

## Blocks for "test light" function

For use with	Supply voltage V	Description	Reference	Weight kg
Light blocks	~ 12 and 24 ~ 24...120	Single module, 1 connecting wire	ZBZ G156 (1)	0.010
Light blocks with integral LED	~ 48...230	Double module, with connecting wires	ZBZ M156 (2)	0.010

## LED suppressors

For use with	Supply voltage V	Level of protection	Reference	Weight kg
Light blocks with integral LED fitted with screw clamp terminal connections	~ 120	25...120 VA	ZBZ VG	0.010
	~ 230	30...230 VA	ZBZ VM	0.010

## Flashing light blocks

## Screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	~ 24 (50/60 Hz)	White	5	ZBV 18B1	0.017
		Green	5	ZBV 18B3	0.017
		Red	5	ZBV 18B4	0.017
		Orange	5	ZBV 18B5	0.017
		Blue	5	ZBV 18B6	0.017
	~ 110...120 (50/60 Hz)	White	5	ZBV 18G1	0.017
		Green	5	ZBV 18G3	0.017
		Red	5	ZBV 18G4	0.017
		Orange	5	ZBV 18G5	0.017
		Blue	5	ZBV 18G6	0.017
	~ 230...240 (50/60 Hz)	White	5	ZBV 18M1	0.017
		Green	5	ZBV 18M3	0.017
		Red	5	ZBV 18M4	0.017
		Orange	5	ZBV 18M5	0.017
		Blue	5	ZBV 18M6	0.017

(1) Block for use with ~ light blocks with integral LED types ZBV J●, ZBV B●, ZBV BG● or with direct supply light block for BA 9s bulb, ZBV 6.

(2) Block for use ~ light blocks integral LED types ZBV G●, ZBV M●, see connection on page 1/118.



To combine with heads, see pages 1/62 to 1/84

1

814264



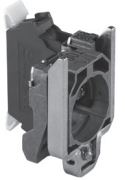
ZB4 BZ009

PF10777



ZBE 1015

PF10779



ZB4 BZ1015

563527



XBY 2U

**Body/fixing collar**

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	ZB4 BZ009	0.038

**Contact functions****Spring terminal connections (1)****Contacts for standard applications**

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	4	ZBE 1015	0.011
		–	1	4	ZBE 1025	0.011
	Single with body/fixing collar	1	–	1	ZB4 BZ1015	0.053
		–	1	1	ZB4 BZ1025	0.053
		2	–	1	ZB4 BZ1035	0.062
		–	2	1	ZB4 BZ1045	0.062

**Light blocks****Spring terminal connections (1)**

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	~ 12 (50/60 Hz)	White	4	ZBV J15	0.016
		Green	4	ZBV J35	0.016
		Red	4	ZBV J45	0.016
		Orange	4	ZBV J55	0.016
		Blue	4	ZBV J65	0.016
	~ 24 (50/60 Hz)	White	4	ZBV B15	0.016
		Green	4	ZBV B35	0.016
		Red	4	ZBV B45	0.016
		Orange	4	ZBV B55	0.016
		Blue	4	ZBV B65	0.016
	~ 110...120 (50/60 Hz)	White	4	ZBV G15	0.016
		Green	4	ZBV G35	0.016
		Red	4	ZBV G45	0.016
		Orange	4	ZBV G55	0.016
		Blue	4	ZBV G65	0.016
	~ 230...240 (50/60 Hz)	White	4	ZBV M15	0.016
		Green	4	ZBV M35	0.016
		Red	4	ZBV M45	0.016
		Orange	4	ZBV M55	0.016
		Blue	4	ZBV M65	0.016

**Sheet of 50 blank legends**

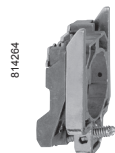
For use with	Sold in lots of	Unit reference	Weight kg
Legend holder ZBZ 001	10	ZBY 001	0.023

**“SIS Label” labelling software (for legends ZBY 001)**

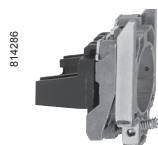
For legend design	Sold in lots of	Unit reference	Weight kg
for English, French, German, Italian, Spanish	10	XBY 2U	0.100

(1) It is not possible to fit an additional block on the back of these contact or light blocks.

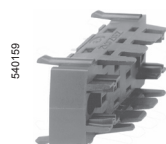
To combine with heads, see pages 1/70 to 1/84



ZB4 BZ009



ZB4 BZ079 + ZB4 BZ009



ZBZ 01●



ZBE 701



ZBE 702



ZBV B●7

### Body/fixing collar and accessories specifically for printed circuit board mounting <sup>(1)</sup>

#### Accessories required when using adaptor (socket) ZBZ 010



Description	For use with	Sold in lots of	Unit reference	Weight kg
Body/fixing collar	Electrical block (contact or light)	10	ZB4 BZ009	0.006
Fixing collar/pillar	Printed circuit board support (fixing screw ZBZ 006 to be ordered separately)	10	ZB4 BZ079	0.003
Fixing screw for printed circuit board	Fixing collar/pillar ZB4 BZ079	10	ZBZ 006	0.011

#### Adapter (socket) <sup>(1)</sup>



For use with	Thickness of printed circuit board (mm)	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	1.6 ± 0.2	10	ZBZ 010	0.008
	2.2 ± 0.2	10	ZBZ 011	0.008
	3.2 ± 0.2	10	ZBZ 012	0.008

### Contact functions <sup>(1)</sup>

#### Contacts for standard applications

Description	Type of contact			Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	—	5	ZBE 701	0.011
		—	1	5	ZBE 702	0.011

#### Contacts for specific applications

Application	Type of contact			Sold in lots of	Unit reference	Weight kg
Low power switching	Single	1	—	5	ZBE 1016	0.012
		—	1	5	ZBE 1026	0.012

### Light blocks <sup>(1)</sup>

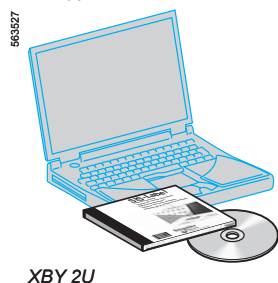
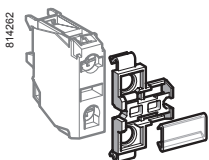
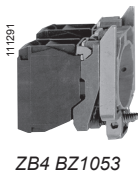
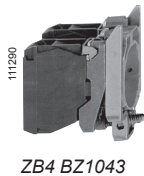
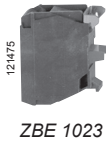
Description	Supply voltage V	Colour of LED	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	≈ 24 (50/60 Hz)	White	5	ZBV B17	0.004
		Green	5	ZBV B37	0.004
		Red	5	ZBV B47	0.004
		Orange	5	ZBV B57	0.004
		Blue	5	ZBV B67	0.004

Protected  
LED

<sup>(1)</sup> For details of support drilling and of printed circuit board: see page 1/121

To combine with heads, see pages 1/62 to 1/84

1

**Contact functions (1)****Faston connectors (6.35 or 2 x 2.8 mm) (Schneider Electric anti-retightening system)****Contacts for standard applications**

Description	Type of contact			Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	ZBE 1013	0.011
		–	1	5	ZBE 1023	0.011
	Double	2	–	5	ZBE 2033	0.020
		–	2	5	ZBE 2043	0.020
		1	1	5	ZBE 2053	0.020
Single with body/fixing collar		1	–	1	ZB4 BZ1013 (2)	0.053
		–	1	1	ZB4 BZ1023 (2)	0.053
		2	–	1	ZB4 BZ1033	0.062
		–	2	1	ZB4 BZ1043	0.062
		1	1	1	ZB4 BZ1053	0.062

**Contacts for specific applications**

Application	Type of contact	Description			Sold in lots of	Unit reference	Weight kg
Low power switching	Single	Standard	1	–	5	ZBE 10163 (2)	0.012
			–	1	5	ZBE 10263 (2)	0.012
		Dusty environments (3) (IP5X, 50 µm dust)	1	–	5	ZBE 1016P3 (2)	0.012
			–	1	5	ZBE 1026P3 (2)	0.012
Staggered contacts	Single	Early make	1	–	5	ZBE 2013 (2)	0.011
		Late break	–	1	5	ZBE 2023 (2)	0.011

**Clip-on legend holders for electrical blocks with screw clamp terminal connections**

For use with	Sold in lots of	Unit reference	Weight kg
Identification of an XB4 B control or signalling unit	10	ZBZ 001	0.001

**Sheet of 50 blank legends**

Legend holder ZBZ 001	10	ZBY 001	0.023
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**“SIS Label” labelling software (for legends ZBY 001)**

For legend design	1	XBY 2U	0.100
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for English, French, German, Italian, Spanish

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3.

Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).

(2) To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9.

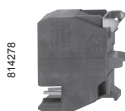
Example: ZBE 1013 becomes ZBE 1019.

(3) It is not possible to fit an additional contact block on the back of these contact blocks.

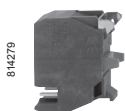
To combine with heads, see pages 1/62 to 1/84



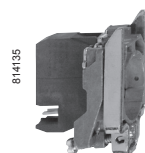
ZB4 BZ009



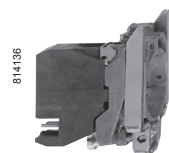
ZBE 1014



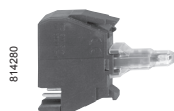
ZBE 1024



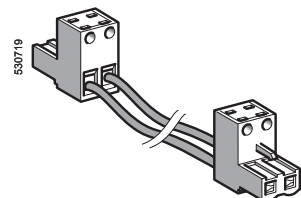
ZB4 BZ1014



ZB4 BZ1024



ZBV B•4





APE 1C2250

**Body/fixing collar**

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	6	ZB4 BZ009	0.038

**Contact functions****Plug-in connector (1)****Contacts for standard applications**

Description	Type of contact			Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	ZBE 1014	0.011
		–	1	5	ZBE 1024	0.011
	Single with body/fixing collar	1	–	1	ZB4 BZ1014	0.050
		–	1	1	ZB4 BZ1024	0.050
		2	–	1	ZB4 BZ1034	0.058
		–	2	1	ZB4 BZ1044	0.058
		1	1	1	ZB4 BZ1054	0.058
		1	2	1	ZB4 BZ1414	0.064

**Light blocks****Plug-in connector**

Description	Supply voltage (V)	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	~ 24 (50/60 Hz)	White	5	ZBV B14	0.016
		Green	5	ZBV B34	0.016
		Red	5	ZBV B44	0.016
		Orange	5	ZBV B54	0.016
		Blue	5	ZBV B64	0.016
	~ 110...120 (50/60 Hz)	White	5	ZBV G14	0.016
		Green	5	ZBV G34	0.016
		Red	5	ZBV G44	0.016
		Orange	5	ZBV G54	0.016
		Blue	5	ZBV G64	0.016
	~ 230...240 (50/60 Hz)	White	5	ZBV M14	0.016
		Green	5	ZBV M34	0.016
		Red	5	ZBV M44	0.016
		Orange	5	ZBV M54	0.016
		Blue	5	ZBV M64	0.016

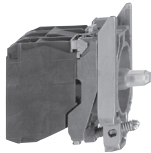
Protected  
LED**Connecting cables and connector**

Description	Number of connectors	Wire c.s.a. mm <sup>2</sup>	Length mm	Sold in lots of	Unit reference	Weight kg
Cables with connectors 2-pin, 5.08 mm pitch	1	0.75	500	8	APE 1C2150	0.120
	2	0.75	500	8	APE 1C2250	0.180
Spring terminal connector 2-pin, 5.08 mm pitch	–	0.2 to 2.5	–	10	APE 1PRE21	0.003


(1) It is not possible to fit an additional contact block on the back of these contact blocks.

To combine with:  
heads, see pages 1/65 to 1/81  
contacts, see page 1/86

1



ZB4 BW0...3

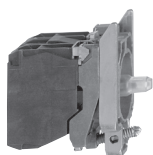
Complete body/contact assemblies and light blocks <sup>(1)</sup>						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
	V	N/O	N/C			kg
<b>Direct supply</b>						
Integral LED 	~ 24 (50/60 Hz)	1	–	White	ZB4 BW0B11	0.064
				Green	ZB4 BW0B31	0.064
				Red	ZB4 BW0B41	0.064
				Orange	ZB4 BW0B51	0.064
				Blue	ZB4 BW0B61	0.064
		–	1	White	ZB4 BW0B12	0.064
				Green	ZB4 BW0B32	0.064
				Red	ZB4 BW0B42	0.064
				Orange	ZB4 BW0B52	0.064
				Blue	ZB4 BW0B62	0.064
		2	–	White	ZB4 BW0B13	0.074
				Green	ZB4 BW0B33	0.074
				Red	ZB4 BW0B43	0.074
				Orange	ZB4 BW0B53	0.074
				Blue	ZB4 BW0B63	0.074
		1	1	White	ZB4 BW0B15	0.074
				Green	ZB4 BW0B35	0.074
				Red	ZB4 BW0B45	0.074
				Orange	ZB4 BW0B55	0.074
				Blue	ZB4 BW0B65	0.074
	~ 110...120 (50/60 Hz)	1	–	White	ZB4 BW0G11	0.064
				Green	ZB4 BW0G31	0.064
				Red	ZB4 BW0G41	0.064
				Orange	ZB4 BW0G51	0.064
				Blue	ZB4 BW0G61	0.064
		–	1	White	ZB4 BW0G12	0.064
				Green	ZB4 BW0G32	0.064
				Red	ZB4 BW0G42	0.064
				Orange	ZB4 BW0G52	0.064
				Blue	ZB4 BW0G62	0.064
		2	–	White	ZB4 BW0G13	0.074
				Green	ZB4 BW0G33	0.074
				Red	ZB4 BW0G43	0.074
				Orange	ZB4 BW0G53	0.074
				Blue	ZB4 BW0G63	0.074
		1	1	White	ZB4 BW0G15	0.074
				Green	ZB4 BW0G35	0.074
				Red	ZB4 BW0G45	0.074
				Orange	ZB4 BW0G55	0.074
				Blue	ZB4 BW0G65	0.074

**Other versions**

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 1/86.

To combine with:  
heads, see pages 1/65 to 1/81  
contacts, see page 1/86



ZB4 BW0...3

Complete body/contact assemblies and light blocks <sup>(1)</sup> (continued)						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
	V	N/O	N/C			kg
<b>Direct supply (continued)</b>						
Integral LED <b>Protected LED</b>	~ 230...240 (50/60 Hz)	1	–	White	ZB4 BW0M11	0.064
				Green	ZB4 BW0M31	0.064
				Red	ZB4 BW0M41	0.064
				Orange	ZB4 BW0M51	0.064
				Blue	ZB4 BW0M61	0.064
		–	1	White	ZB4 BW0M12	0.064
				Green	ZB4 BW0M32	0.064
				Red	ZB4 BW0M42	0.064
				Orange	ZB4 BW0M52	0.064
				Blue	ZB4 BW0M62	0.064
		2	–	White	ZB4 BW0M13	0.074
				Green	ZB4 BW0M33	0.074
				Red	ZB4 BW0M43	0.074
				Orange	ZB4 BW0M53	0.074
				Blue	ZB4 BW0M63	0.074
		1	1	White	ZB4 BW0M15	0.074
				Green	ZB4 BW0M35	0.074
				Red	ZB4 BW0M45	0.074
				Orange	ZB4 BW0M55	0.074
				Blue	ZB4 BW0M65	0.074

#### Other versions

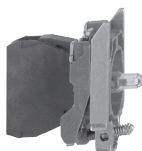
Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 1/86.

To combine with:  
heads, see page 1/82  
contacts, see page 1/86

1

814207



ZB4 BV●●

**Complete light bodies** (fixing collar + light block with integral LED)  
**Screw clamp terminal connections** (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED <b>protected LED</b>	~ 12 (50/60 Hz)	White	<b>ZB4 BVJ1</b>	0.054
		Green	<b>ZB4 BVJ3</b>	0.054
		Red	<b>ZB4 BVJ4</b>	0.054
		Orange	<b>ZB4 BVJ5</b>	0.054
		Blue	<b>ZB4 BVJ6</b>	0.054
	~ 24 (1) (50/60 Hz)	White	<b>ZB4 BVB1</b>	0.054
		Green	<b>ZB4 BVB3</b>	0.054
		Red	<b>ZB4 BVB4</b>	0.054
		Orange	<b>ZB4 BVB5</b>	0.054
		Blue	<b>ZB4 BVB6</b>	0.054
	~ 24...120 (50/60 Hz)	White	<b>ZB4 BVBG1</b>	0.054
		Green	<b>ZB4 BVBG3</b>	0.054
		Red	<b>ZB4 BVBG4</b>	0.054
		Orange	<b>ZB4 BVBG5</b>	0.054
		Blue	<b>ZB4 BVBG6</b>	0.054
	~ 110...120 (1) (50/60 Hz)	White	<b>ZB4 BVG1</b>	0.054
		Green	<b>ZB4 BVG3</b>	0.054
		Red	<b>ZB4 BVG4</b>	0.054
		Orange	<b>ZB4 BVG5</b>	0.054
		Blue	<b>ZB4 BVG6</b>	0.054
	~ 230...240 (1) (50/60 Hz)	White	<b>ZB4 BVM1</b>	0.054
		Green	<b>ZB4 BVM3</b>	0.054
		Red	<b>ZB4 BVM4</b>	0.054
		Orange	<b>ZB4 BVM5</b>	0.054
		Blue	<b>ZB4 BVM6</b>	0.054

(1) Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 1/90.

To combine with:  
heads, see page 1/82  
contacts, see page 1/86



ZB4 BVB156

## Complete light bodies with 3-terminal "test" function

(fixing collar + light block with integral LED + pre-wired block for "test light" function)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	$\approx$ 24 (1) (50/60 Hz)	White	ZB4 BVB1156	0.054
		Green	ZB4 BVB3156	0.054
		Red	ZB4 BVB4156	0.054
		Orange	ZB4 BVB5156	0.054
		Blue	ZB4 BVB6156	0.054

## Complete bodies with flashing pilot light (fixing collar + light block with integral LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	$\approx$ 24 (50/60 Hz)	White	ZB4 BV18B1	0.054
		Green	ZB4 BV18B3	0.054
		Red	ZB4 BV18B4	0.054
		Orange	ZB4 BV18B5	0.054
		Blue	ZB4 BV18B6	0.054
	$\sim$ 110...120 (50/60 Hz)	White	ZB4 BV18G1	0.054
		Green	ZB4 BV18G3	0.054
		Red	ZB4 BV18G4	0.054
		Orange	ZB4 BV18G5	0.054
		Blue	ZB4 BV18G6	0.054
	$\sim$ 230...240 (50/60 Hz)	White	ZB4 BV18M1	0.054
		Green	ZB4 BV18M3	0.054
		Red	ZB4 BV18M4	0.054
		Orange	ZB4 BV18M5	0.054
		Blue	ZB4 BV18M6	0.054

(1) For a  $\sim$  120 or 230 V supply, use complete body ZB4 BVG1 or ZB4 BVM1 with block for "test light" function type ZBZ M156, see page 1/82 and 1/87.

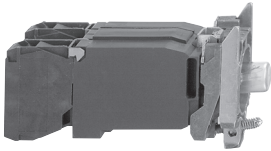


To combine with:  
heads, see page 1/67  
contacts, see page 1/86

1





ZB4 BW06●



ZB4 BW05●

**Complete body/contact assemblies and light blocks <sup>(1)</sup>****For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections (Schneider Electric anti-retightening system)**

Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight	
		 N/O	 N/C				
	V					kg	
Direct supply							
BA9s base fitting bulb, 2.4 W max, not included (2)	≤ 250	1	–	–	ZB4 BW061	0.063	
		–	1	–	ZB4 BW062	0.063	
		2	–	–	ZB4 BW063	0.073	
		1	1	–	ZB4 BW065	0.073	
Supply via integral transformer (1.2 VA, 6 V secondary)							
BA9s base fitting incandescent bulb, included	~ 110...120 50/60 Hz	1	–	–	ZB4 BW031	0.141	
		1	1	–	ZB4 BW035	0.151	
	~ 230 50 Hz	1	–	–	ZB4 BW041	0.141	
		1	1	–	ZB4 BW045	0.151	
	~ 220...240 60 Hz	1	–	–	ZB4 BW051	0.141	
		1	1	–	ZB4 BW055	0.151	
	~ 400 50 Hz	1	–	–	ZB4 BW051	0.141	
		1	1	–	ZB4 BW055	0.151	
	BA9s base fitting LED, included	~ 110...120 50/60 Hz	1	1	White	ZB4 BW03D15	0.151
					Green	ZB4 BW03D35	0.151
Red					ZB4 BW03D45	0.151	
Orange					ZB4 BW03D55	0.151	
Blue					ZB4 BW03D65	0.151	
~ 230 50 Hz		1	1	White	ZB4 BW04D15	0.151	
				Green	ZB4 BW04D35	0.151	
				Red	ZB4 BW04D45	0.151	
				Orange	ZB4 BW04D55	0.151	
				Blue	ZB4 BW04D65	0.151	
~ 220...240 60 Hz		1	1	White	ZB4 BW05D15	0.152	
				Green	ZB4 BW05D35	0.152	
				Red	ZB4 BW05D45	0.152	
				Orange	ZB4 BW05D55	0.152	
				Blue	ZB4 BW05D65	0.152	
~ 400 50/60 Hz		1	1	White	ZB4 BW05D15	0.152	
				Green	ZB4 BW05D35	0.152	
				Red	ZB4 BW05D45	0.152	
				Orange	ZB4 BW05D55	0.152	
				Blue	ZB4 BW05D65	0.152	

**Other versions**

Complete bodies with integral transformer incorporating Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 1/86.

(2) Bulb to be ordered separately: see page 1/108.

To combine with:  
heads, see page 1/83  
contacts, see page 1/86

**Light blocks****Screw clamp terminal connections** (Schneider Electric anti-retightening system)

Description	Supply voltage V	Sold in lots of	Unit reference	Weight kg
Direct supply for BA 9s base fitting bulb, 2.4 W max., not included (1)	≤ 250	5	ZBV 6	0.016

**Complete light bodies** (fixing collar + light block )**For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
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**Direct supply**

BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB4 BV6	0.052
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**Supply via integral transformer (1.2 VA, 6 V secondary)**

BA 9s base fitting incandescent bulb, included	~ 110...120 - 50/60 Hz	–	ZB4 BV3	0.130
	~ 230 - 50 Hz	–	ZB4 BV4	0.130
	~ 220...240 - 60 Hz	–	ZB4 BV5	0.131
	~ 400 - 50 Hz	–	ZB4 BV8	0.128
	~ 440...480 - 60 Hz	–	ZB4 BV9	0.131

BA 9s base fitting LED, included	~ 110...120 - 50/60 Hz	White	ZB4 BV3D1	0.134
		Green	ZB4 BV3D3	0.134
		Red	ZB4 BV3D4	0.134
		Orange	ZB4 BV3D5	0.134
		Blue	ZB4 BV3D6	0.134

	~ 230 - 50 Hz ~ 220...240 - 60 Hz	White	ZB4 BV4D1	0.134
		Green	ZB4 BV4D3	0.134
		Red	ZB4 BV4D4	0.134
		Orange	ZB4 BV4D5	0.134
		Blue	ZB4 BV4D6	0.134

	~ 400 - 50/60 Hz	White	ZB4 BV5D1	0.134
		Green	ZB4 BV5D3	0.134
		Red	ZB4 BV5D4	0.134
		Orange	ZB4 BV5D5	0.134
		Blue	ZB4 BV5D6	0.134

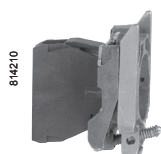
**Complete light bodies with 3-terminal “test” function** (fixing collar + light block)**For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)**Direct supply**

BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB4 BV156	0.062
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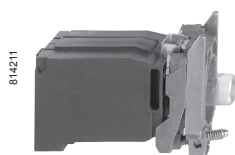
(1) Bulb to be ordered separately, see page 1/108.

**Other versions**

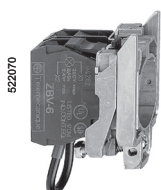
Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 1/87.



ZB4 BV6



ZB4 BV●



ZB4 BV156

1



ZBA •



ZBL •



ZBA •33

## Pushbutton caps - unmarked

For use with	Type of push	Colour	Sold in lots of	Unit reference	Weight kg
ZB4 BA0 circular pushbutton heads supplied without cap	Flush	White	10	ZBA 1	0.001
		Black	10	ZBA 2	0.001
		Green	10	ZBA 3	0.001
		Red	10	ZBA 4	0.001
		Yellow	10	ZBA 5	0.001
		Blue	10	ZBA 6	0.001
		6 colours (1)	1	ZBA 9	0.006
	Projecting	White	10	ZBL 1	0.001
		Black	10	ZBL 2	0.001
		Green	10	ZBL 3	0.001
		Red	10	ZBL 4	0.001
		Yellow	10	ZBL 5	0.001
		Blue	10	ZBL 6	0.001
		6 colours (1)	1	ZBL 9	0.006

## Pushbutton caps - marked

For use with	Type of push	Marking		Colour of cap	Unit reference	Weight kg
		Text	Colour			
ZB4 BA0 circular pushbutton heads supplied without cap (sold in lots of 10)	Flush	I (2)	White	Green	ZBA 331	0.001
			Black	White	ZBA 131	0.001
		II	White	Green	ZBA 336	0.001
			Black	White	ZBA 136	0.001
		III	White	Green	ZBA 337	0.001
			Black	White	ZBA 137	0.001
		IV	White	Green	ZBA 338	0.001
			Black	White	ZBA 138	0.001
		START (2)	White	Green	ZBA 333	0.001
			Black	White	ZBA 133	0.001
		ON	White	Green	ZBA 341	0.001
			Black	White	ZBA 141	0.001
		MARCHE	White	Green	ZBA 342	0.001
			Black	White	ZBA 142	0.001
		UP (2)	Black	White	ZBA 343	0.001
		DOWN (2)	White	Black	ZBA 344	0.001
		T (2)	White	Black	ZBA 245	0.001
			Black	White	ZBA 145	0.001
		↑ (3)	White	Black	ZBA 335	0.001
			Black	White	ZBA 334	0.001
		O (2)	White	Red	ZBA 432	0.001
				Black	ZBA 232	0.001
		ARRET	White	Red	ZBA 433	0.001
				Black	ZBA 233	0.001
		STOP (2)	White	Red	ZBA 434	0.001
				Black	ZBA 234	0.001
		OFF	White	Red	ZBA 435	0.001
				Black	ZBA 235	0.001
		◇	White	Green	ZBA 346	0.001
		R (2)	White	Blue	ZBA 639	0.001
		+	White	Black	ZBA 2934	0.001
		-	White	Black	ZBA 2935	0.001

(1) Set of 6 different coloured caps: white, black, green, red, yellow, blue.

(2) Double injection moulded marking.

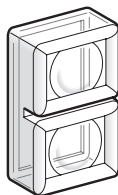
(3) Can be clipped-in at 90° steps, through 360°.

814334



ZBP 0

814335



ZBW 008

814336



ZBV 01●3

814337



ZBV 01●

## Transparent boots for pushbuttons

Description	For use with pushbutton types	Sold in lots of	Unit reference	Weight kg
Single boots	Flush with circular head	10	ZBP A	0.002
	Projecting with circular head	10	ZBP 0	0.002
	Flush or projecting with circular head for food industry applications	10	ZBP 0A	0.002
Double boots	Flush or projecting double-headed	10	ZBW 008	0.005
	Flush double-headed	10	ZBW 008F	0.005
	Double-headed, for food industry applications	10	ZBW 008A	0.005

## Coloured boots

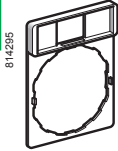
Description	Colour	Sold in lots of	Unit reference	Weight kg
Coloured boots (can be replaced without dismantling the head)	Black	10	ZB2 BP012	0.003
	Green	10	ZB2 BP013	0.003
	Red	10	ZB2 BP014	0.003
	Yellow	10	ZB2 BP015	0.003
	Blue	10	ZB2 BP016	0.003

## Lens caps

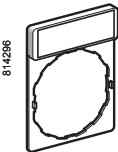
For use with	Colour	Sold in lots of	Unit reference	Weight kg
Lens caps for light sources with integral LED				
Pilot lights	White	10	ZBV 0113	0.002
	Green	10	ZBV 0133	0.002
	Red	10	ZBV 0143	0.002
	Orange	10	ZBV 0153	0.002
	Blue	10	ZBV 0163	0.002
	5 different coloured grooved lenses (1)	5	ZBV 0103S	0.010
Illuminated pushbuttons, with flush push	White	10	ZBW 9113	0.002
	Green	10	ZBW 9133	0.002
	Red	10	ZBW 9143	0.002
	Orange	10	ZBW 9153	0.002
	Blue	10	ZBW 9163	0.002
Illuminated pushbuttons, with projecting push	White	10	ZBW 9313	0.002
	Green	10	ZBW 9333	0.002
	Red	10	ZBW 9343	0.002
	Orange	10	ZBW 9353	0.002
	Blue	10	ZBW 9363	0.002
Lens caps for light sources with BA 9s base fitting				
Pilot lights	White	10	ZBV 011	0.002
	Green	10	ZBV 013	0.002
	Red	10	ZBV 014	0.002
	Orange	10	ZBV 015	0.002
	Blue	10	ZBV 016	0.002
	Clear	10	ZBV 017	0.002
Pushbuttons, illuminated, with flush push	White	10	ZBW 911	0.002
	Green	10	ZBW 913	0.002
	Red	10	ZBW 914	0.002
	Orange	10	ZBW 915	0.002
	Blue	10	ZBW 916	0.002
	Clear	10	ZBW 917	0.002
Pushbuttons, illuminated, with projecting push	White	10	ZBW 931	0.002
	Green	10	ZBW 933	0.002
	Red	10	ZBW 934	0.002
	Orange	10	ZBW 935	0.002
	Blue	10	ZBW 936	0.002
	Clear	10	ZBW 937	0.002

(1) Clear, green, red, orange, blue.

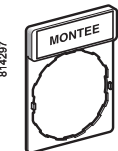
1



ZBZ 32



ZBY 101



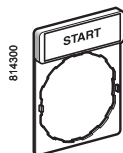
ZBY 2107

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends <sup>(1)</sup>

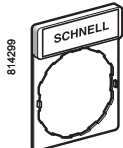
Description	Legend Colour	Marking	Sold in lots of	Unit reference	Weight kg	
Without legend	–	–	10	ZBZ 32	0.001	
With blank legend (for engraving)	Black or red background	–	10	ZBY 2101	0.002	
	White or yellow background	–	10	ZBY 4101	0.002	
With 8 x 27 mm legend (with International marking)	Black or red background	O (black background)	1	ZBY 2146	0.002	
		O (red background)	1	ZBY 2931	0.002	
		I	1	ZBY 2147	0.002	
		II	1	ZBY 2148	0.002	
		O-I	1	ZBY 2178	0.002	
		I-II	1	ZBY 2179	0.002	
		I-O-II	1	ZBY 2186	0.002	
		AUTO	1	ZBY 2115	0.002	
		STOP	1	ZBY 2304	0.002	
With 8 x 27 mm legend (with French language marking) (2)	Black or red background	ARRET (red background)	1	ZBY 2104	0.002	
		ARRET (black background)	1	ZBY 0104	0.002	
		ARRET GENERAL	1	ZBY 2129	0.002	
		ARRET REARMEMENT	1	ZBY 2133	0.002	
		ARRET-MARCHE	1	ZBY 2166	0.002	
		ARRIERE	1	ZBY 2106	0.002	
		AUTO CYCLE-CYCLE	1	ZBY 2198	0.002	
		AUTO CYCLE-MAIN	1	ZBY 2199	0.002	
		AUTO-MAIN	1	ZBY 2164	0.002	
		AUTO-O-MAIN	1	ZBY 2185	0.002	
		AVANT	1	ZBY 2105	0.002	
		AVANT-O-ARRIERE	1	ZBY 2184	0.002	
		C-P-C-NORMAL	1	ZBY 2165	0.002	
		CYCLE-MAIN	1	ZBY 2197	0.002	
		DECLenchement	1	ZBY 2132	0.002	
		DEFAULT (black background)	1	ZBY 2134	0.002	
		DEFAULT (red background)	1	ZBY 2135	0.002	
		DEPART CYCLE	1	ZBY 2195	0.002	
		DESCENTE	1	ZBY 2108	0.002	
		DROITE	1	ZBY 2109	0.002	
		ENclenchement	1	ZBY 2131	0.002	
		EN SERVICE	1	ZBY 2111	0.002	
		FERMETURE	1	ZBY 2114	0.002	
		GAUCHE	1	ZBY 2110	0.002	
		HORS SERVICE	1	ZBY 2112	0.002	
		HORS-EN	1	ZBY 2167	0.002	
		LENT	1	ZBY 2127	0.002	
		MAIN	1	ZBY 2116	0.002	
		MARCHE	1	ZBY 2103	0.002	
		MONTEE	1	ZBY 2107	0.002	
		OUVERTURE	1	ZBY 2113	0.002	
		PHASE / PHASE	1	ZBY 2196	0.002	
		REARMEMENT (red background)	1	ZBY 2123	0.002	
		REARMEMENT (black background)	1	ZBY 0123	0.002	
		SOUS TENSION	1	ZBY 2126	0.002	
		VITE	1	ZBY 2128	0.002	
		Yellow background	ARRET D'URGENCE	1	ZBY 2130	0.002

(1) For legends, see pages 1/102 to 1/104.

(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).



ZBY 2303



ZBY 2228

## Standard (30 x 40 mm) legend holders with 8 x 27 mm legends (continued)

Description	Legend	Marking	Reference	Weight kg
<b>With legend</b> (with English language marking) (1)	Black or red background	AUTO-HAND	ZBY 2364	0.002
		AUTO-O-HAND	ZBY 2385	0.002
		CLOSE	ZBY 2314	0.002
		DOWN	ZBY 2308	0.002
		FAST	ZBY 2328	0.002
		FORWARD	ZBY 2305	0.002
		HAND	ZBY 2316	0.002
		HAND-OFF-AUTO	ZBY 2387	0.002
		INCH	ZBY 2321	0.002
		LEFT	ZBY 2310	0.002
		OFF	ZBY 2312	0.002
		OFF-ON	ZBY 2367	0.002
		ON	ZBY 2311	0.002
		OPEN	ZBY 2313	0.002
		POWER ON	ZBY 2326	0.002
		RESET (red background)	ZBY 2323	0.002
		RESET (black background)	ZBY 2322	0.002
		REVERSE	ZBY 2306	0.002
		RIGHT	ZBY 2309	0.002
		RUN	ZBY 2334	0.002
		SLOW	ZBY 2327	0.002
		START	ZBY 2303	0.002
		STOP-START	ZBY 2366	0.002
		UP	ZBY 2307	0.002
	Yellow background	EMERGENCY STOP	ZBY 2330	0.002
<b>With legend</b> (with German language marking) (1)	Black or red background	AB	ZBY 2208	0.002
		AUF	ZBY 2207	0.002
		AUS	ZBY 2204	0.002
		AUS-EIN	ZBY 2266	0.002
		AUS-IN BETRIEB	ZBY 2267	0.002
		AUS-RÜCKSTELLUNG	ZBY 2233	0.002
		AUSSCHALTEN	ZBY 2232	0.002
		AUTO-HAND	ZBY 2364	0.002
		AUTO-O-HAND	ZBY 2385	0.002
		AUTOZYKL-HAND	ZBY 2299	0.002
		AUTOZYKL- 1 ZYKL	ZBY 2298	0.002
		C-P-C-NORMAL	ZBY 2265	0.002
		EIN	ZBY 2203	0.002
		EINSCHALTEN	ZBY 2231	0.002
		HAND	ZBY 2316	0.002
		LANGSAM	ZBY 2227	0.002
		LINKS	ZBY 2210	0.002
		NOT-AUS (red background)	ZBY 2230	0.002
		NOT-HALT	ZBY 2229	0.002
		ÖFFNEN	ZBY 2213	0.002
		RECHTS	ZBY 2209	0.002
		RÜCKSTELLUNG	ZBY 2223	0.002
		SCHLIESSEN	ZBY 2214	0.002
		SCHNELL	ZBY 2228	0.002
		SPANNUNG EIN	ZBY 2226	0.002
		STEUERUNG AUS	ZBY 2212	0.002
		STEUERUNG EIN	ZBY 2211	0.002
		STÖRUNG (black background)	ZBY 2234	0.002
		STÖRUNG (red background)	ZBY 2235	0.002
		VOR	ZBY 2205	0.002
		VOR-O-ZURÜCK	ZBY 2284	0.002
		ZURÜCK	ZBY 2206	0.002
		ZYKLUS-HAND	ZBY 2297	0.002
		ZYKLUSSTART	ZBY 2295	0.002
	Yellow background	NOT-AUS	ZBY 22420001	0.002

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

1

214310



ZBY 02178

14044



ZBY 0.104

**8 x 27 mm marked legends** (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34)

Colour	Marking		Reference	Weight kg
Black or red background (1)	International	O (black background)	ZBY 02146	0.001
		O (red background)	ZBY 02931	0.001
		I	ZBY 02147	0.001
		II	ZBY 02148	0.001
		O-I	ZBY 02178	0.001
		I-II	ZBY 02179	0.001
		I-O-II	ZBY 02186	0.001
		AUTO	ZBY 02115	0.001
		STOP	ZBY 02304	0.001
	French	ARRET (red background)	ZBY 02104	0.001
		ARRET (black background)	ZBY 00104	0.001
		ARRET GENERAL	ZBY 02129	0.001
		ARRET REARMEMENT	ZBY 02133	0.001
		ARRET-MARCHE	ZBY 02166	0.001
		ARRIERE	ZBY 02106	0.001
		AUTO CYCLE-CYCLE	ZBY 02198	0.001
		AUTO CYCLE-MAIN	ZBY 02199	0.001
		AUTO-MAIN	ZBY 02164	0.001
		AUTO-O-MAIN	ZBY 02185	0.001
		AVANT	ZBY 02105	0.001
		AVANT-O-ARRIERE	ZBY 02184	0.001
		C-P-C-NORMAL	ZBY 02165	0.001
		CYCLE-MAIN	ZBY 02197	0.001
		DECLenchement	ZBY 02132	0.001
		DEFAULT (black background)	ZBY 02134	0.001
		DEFAULT (red background)	ZBY 02135	0.001
		DEPART CYCLE	ZBY 02195	0.001
		DESCENTE	ZBY 02108	0.001
		DROITE	ZBY 02109	0.001
		ENCLenchement	ZBY 02131	0.001
		EN SERVICE	ZBY 02111	0.001
		FERMETURE	ZBY 02114	0.001
		GAUCHE	ZBY 02110	0.001
		HORS SERVICE	ZBY 02112	0.001
		HORS-EN	ZBY 02167	0.001
		LENT	ZBY 02127	0.001
		MAIN	ZBY 02116	0.001
		MARCHE	ZBY 02103	0.001
		MONTEE	ZBY 02107	0.001
		Ouverture	ZBY 02113	0.001
		PHASE / PHASE	ZBY 02196	0.001
		REARMEMENT (red background)	ZBY 02123	0.001
		REARMEMENT (black background)	ZBY 00123	0.001
		SOUS TENSION	ZBY 02126	0.001
		VITE	ZBY 02128	0.001
Yellow background	French	ARRET D'URGENCE	ZBY 02130	0.001

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

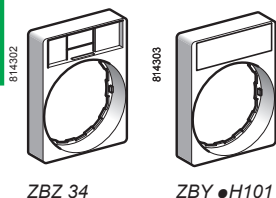
## 8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34) (continued)

Colour	Marking	Reference	Weight kg
Black or red background (1)	English	AUTO-HAND	ZBY 02364 0.001
		AUTO-O-HAND	ZBY 02385 0.001
		CLOSE	ZBY 02314 0.001
		DOWN	ZBY 02308 0.001
		EMERGENCY STOP	ZBY 02330 0.001
		FAST	ZBY 02328 0.001
		FORWARD	ZBY 02305 0.001
		HAND	ZBY 02316 0.001
		HAND-OFF-AUTO	ZBY 02387 0.001
		INCH	ZBY 02321 0.001
		LEFT	ZBY 02310 0.001
		OFF	ZBY 02312 0.001
		OFF-ON	ZBY 02367 0.001
		ON	ZBY 02311 0.001
		OPEN	ZBY 02313 0.001
		POWER ON	ZBY 02326 0.001
		RESET (red background)	ZBY 02323 0.001
		RESET (black background)	ZBY 02322 0.001
		REVERSE	ZBY 02306 0.001
		RIGHT	ZBY 02309 0.001
		RUN	ZBY 02334 0.001
		SLOW	ZBY 02327 0.001
		START	ZBY 02303 0.001
		STOP-START	ZBY 02366 0.001
		UP	ZBY 02307 0.001
	German	AB	ZBY 02208 0.001
		AUF	ZBY 02207 0.001
		AUS	ZBY 02204 0.001
		AUS-EIN	ZBY 02266 0.001
		AUS-IN BETRIEB	ZBY 02267 0.001
		AUS-RÜCKSTELLUNG	ZBY 02233 0.001
		AUSSCHALTEN	ZBY 02232 0.001
		AUTO-HAND	ZBY 02364 0.001
		AUTO-O-HAND	ZBY 02385 0.001
		AUTOZYKL-HAND	ZBY 02299 0.001
		AUTOZYKL- 1 ZYKL	ZBY 02298 0.001
		C-P-C-NORMAL	ZBY 02265 0.001
		EIN	ZBY 02203 0.001
		EINSCHALTEN	ZBY 02231 0.001
		HAND	ZBY 02316 0.001
		LANGSAM	ZBY 02227 0.001
		LINKS	ZBY 02210 0.001
		NOT-AUS (red background)	ZBY 02230 0.001
		NOT-HALT	ZBY 02229 0.001
		ÖFFNEN	ZBY 02213 0.001
		RECHTS	ZBY 02209 0.001
		RÜCKSTELLUNG	ZBY 02223 0.001
		SCHLIESSEN	ZBY 02214 0.001
		SCHNELL	ZBY 02228 0.001
		SPANNUNG EIN	ZBY 02226 0.001
		STEUERUNG AUS	ZBY 02212 0.001
		STEUERUNG EIN	ZBY 02211 0.001
		STÖRUNG (black background)	ZBY 02234 0.001
		STÖRUNG (red background)	ZBY 02235 0.001
		VOR	ZBY 02205 0.001
		VOR-O-ZURÜCK	ZBY 02284 0.001
		ZURÜCK	ZBY 02206 0.001
		ZYKLUS-HAND	ZBY 02297 0.001
		ZYKLUSSTART	ZBY 02295 0.001
Yellow background	English	EMERGENCY STOP	ZBY 02330 0.001
	German	NOT-AUS	ZBY 022420001 0.001

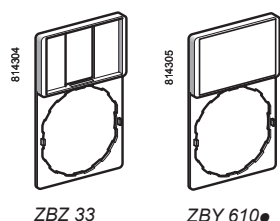
(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).



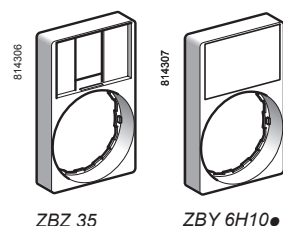
1

**30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends**

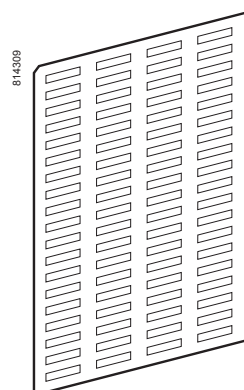
Description	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	—	10	ZBZ 34	0.003
With blank legend	Black or red background	10	ZBY 2H101	0.004
	White or yellow background	10	ZBY 4H101	0.004

**Standard (30 x 50 mm) legend holders for 18 x 27 mm legends**

Description	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	—	10	ZBZ 33	0.001
With blank legend	Black or red background	10	ZBY 6101	0.002
	White or yellow background	10	ZBY 6102	0.002

**30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends**

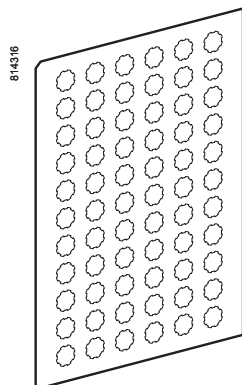
Description	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	—	10	ZBZ 35	0.003
With blank legend	Black or red background	10	ZBY 6H101	0.004
	White or yellow background	10	ZBY 6H102	0.004

**Legends for engraving**

Description mm	For use with	Colour	Sold in lots of	Unit reference	Weight kg
8 x 27	30 x 40 mm legend holder	Black or red background	10	ZBY 0101	0.001
		White or yellow background	10	ZBY 0102	0.001
18 x 27	30 x 50 mm legend holder	Black or red background	10	ZBY 5101	0.001
		White or yellow background	10	ZBY 5102	0.001

**Sheets of peel-off legends (with backing board and protective cover)**

Description	For use with	Sold in lots of	Unit reference	Weight kg
Sheet of 76 legends 8 x 27 mm	30 x 40 mm legend holder ZBZ 32 and ZBZ 34	10	ZBY 4100	0.043
Sheet of 40 legends 18 x 27 mm	30 x 50 mm legend holder ZBZ 33 and ZBZ 35	10	ZBY 5100	0.044



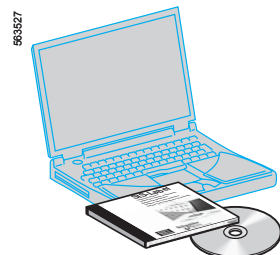
ZBY 1101

## Legends for XB4 B pushbutton, illuminated pushbuttons and pilot lights

Description	Marking		Sold in lots of	Unit reference	Weight kg
<b>Sheets of 66 circular peel-off, transparent, self-adhesive legends</b>	Without		10	ZBY 1101	0.017
<b>Strips of 66 circular peel-off, transparent, self-adhesive legends</b>	International	O	10	ZBY 1146	0.017
		I	10	ZBY 1147	0.017
		II	10	ZBY 1148	0.017
		III	10	ZBY 1149	0.017
		STOP	10	ZBY 1304	0.017
		↑	10	ZBY 1912	0.017
	French	ARRET	10	ZBY 1104	0.017
		ARRIERE	10	ZBY 1106	0.017
		AUTO	10	ZBY 1115	0.017
		AVANT	10	ZBY 1105	0.017
		DESCENTE	10	ZBY 1108	0.017
		MAIN	10	ZBY 1116	0.017
		MARCHE	10	ZBY 1103	0.017
		MONTEE	10	ZBY 1107	0.017
	English	HAND	10	ZBY 1316	0.017
		OFF	10	ZBY 1312	0.017
		ON	10	ZBY 1311	0.017
		START	10	ZBY 1303	0.017
	German	AB	10	ZBY 1208	0.017
		AUF	10	ZBY 1207	0.017
		AUS	10	ZBY 1204	0.017
		EIN	10	ZBY 1203	0.017
		ZU	10	ZBY 1214	0.017

## "SIS Label" labelling software

Application	For use with	Reference	Weight kg
<b>Legend design</b> for English, French, German, Italian, Spanish	ZBY 1101 ZBY 0101 ZBY 0102 ZBY 5101 ZBY 5102 ZBY 001	XYB 2U	0.100



XYB 2U

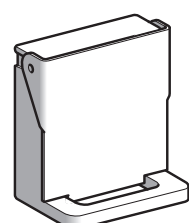
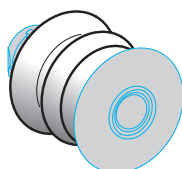
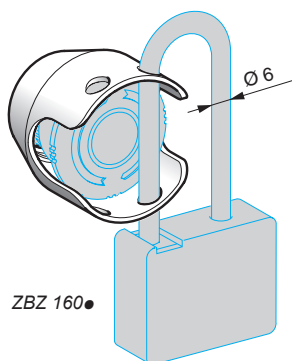
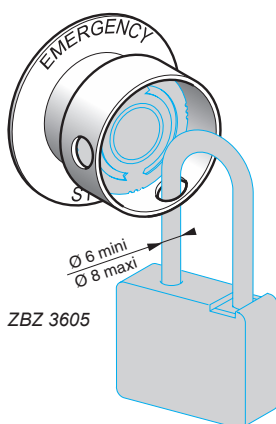


ZBY 9130

## Circular legends for Emergency stop mushroom head pushbuttons

Diameter mm	Colour	Marking on yellow background	Reference	Weight kg
60	Yellow	—	ZBY 9101	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		NOT-AUS	ZBY 9230	0.004
		PARADA DE EMERGENCIA	ZBY 9430	0.004
		ARRESTO EMERGENZA	ZBY 9630	0.004
90	Yellow	—	ZBY 8101	0.008
		ARRET D'URGENCE	ZBY 8130	0.008
		EMERGENCY STOP	ZBY 8330	0.008
		NOT-AUS	ZBY 8230	0.008
		PARADA DE EMERGENCIA	ZBY 8430	0.008
		ARRESTO EMERGENZA	ZBY 8630	0.008

1



## Accessories

## Padlocking kit for Emergency Stop

Description	Application	Colour	Reference	Weight kg
<b>Padlocking kit</b> Conforming to IEC 60204-1, EN/ISO 13850: 2006 (1) (2) (padlockable)	For Emergency Stop function only, with the following Ø 40 trigger-action pushbuttons: XB4 BS844, XB4 BS944, ZB4 BS844, ZB4 BS944.	Yellow	<b>ZBZ 3605</b>	0.045

Description	Marking	Colour	Reference	Weight kg
<b>Ø 60 mm legend for padlocking device</b> ZBZ 3605	Without	Yellow	<b>ZBY 9101T</b>	0.004
	ARRET D'URGENCE	Yellow	<b>ZBY 9130T</b>	0.004
	EMERGENCY STOP	Yellow	<b>ZBY 9330T</b>	0.004
	NOT-AUS	Yellow	<b>ZBY 9230T</b>	0.004

## Guards

Description	Application	Colour	Reference	Weight kg
<b>Metal guards</b> Padlockable (2)	For Emergency Stop function only, with the following Ø 40 trigger-action pushbuttons: XB4 BT8, XB4 BS8, XB4 BS9, ZB4 BT8, ZB4 BS8, ZB4 BS9.	Chromium plated	<b>ZBZ 1600</b>	0.046
		Black	<b>ZBZ 1602</b>	0.046
		Red	<b>ZBZ 1604</b>	0.046
		Yellow	<b>ZBZ 1605</b>	0.046
		Blue	<b>ZBZ 1606</b>	0.046
<b>Plastic guard</b>	Selector switches and key switches	Black	<b>ZBZ 2102</b>	0.005

## Bellows for harsh environments (IP 69K)

For use with	Material	Colour	Sold in lots of	Unit reference	Weight kg
Environments subject to humidity, dust, high pressure cleaning, etc.	Silicone	Red	2	<b>ZBZ 48</b>	0.009
	EPDM	Black	2	<b>ZBZ 28</b>	0.009
		Yellow	2	<b>ZBZ 58</b>	0.009

## Padlockable flaps

Description	For use with	Colour	Reference	Weight kg
<b>Padlockable flaps</b>	Pushbuttons	Black	<b>ZB4 BZ62</b>	0.076
		Red	<b>ZB4 BZ64</b>	0.076
		Yellow	<b>ZB4 BZ65</b>	0.076
		Blue	<b>ZB4 BZ66</b>	0.076

(1) Standard circular legends are not compatible with this product. Use special legends **ZBY 9...T**.

(2) No isolation function is possible when this guard is fitted.

(3) Only when mounted on control stations. Use legends **ZBY 9...T**.



ZB5 SZ3

**Accessories****Blanking plug**

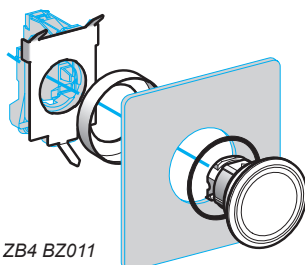
Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Metal circular blanking plug (1)	Ø 22 control and signalling units	Chromium plated	10	ZB4 SZ3	0.023
		Black	10	ZB4 SZ37	0.023
Plastic circular blanking plug (with fixing nut)	Ø 22 control and signalling units	Black	10	ZB5 SZ3	0.009

**Liquid spray protective washer for insertion beneath head**

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Liquid spray protective washer	Ø 22 control and signalling units	Chromium plated	50	ZB4 BZ007	0.010
		Black	50	ZB4 BZ0077	0.010

**Flush mounting kit**

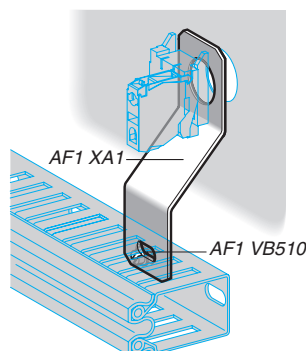
Description	For use with	Reference	Weight kg
Flush mounting kit	Pushbutton ZB4 B● with head mounted flush with bezel	ZB4 BZ011	0.007



ZB4 BZ011

**Cable ducting support**

Description	Application	Sold in lots of	Unit reference	Weight kg
Cable ducting support	Fixing beneath head	10	AF1 XA1	0.030
M5 x 10 screw, with hexagonal slotted head	For fixing cable ducting	100	AF1 VB510	0.003
Support	For XB4 B pushbuttons, switches and pilot lights	1	DX1 AP52	0.160



(1) Body/fixing collar ZB4 BZ009, required for mounting, must be ordered separately, see page 1/89.

1



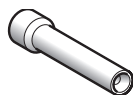
DL1 CJ0●●●



DL1 CE●●●



DL1 CF●●●



XBF X13



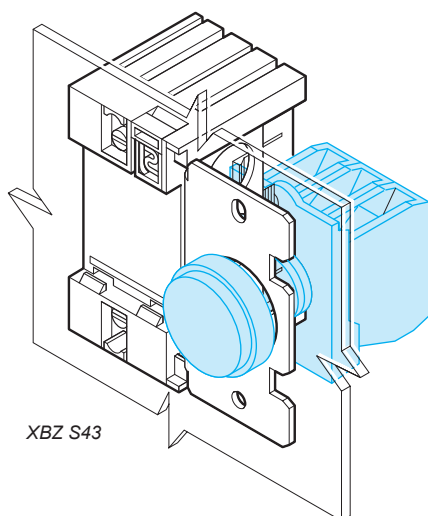
ZBZ 8

## Bulbs with BA 9s base fitting and associated accessories

Description	Characteristics	Colour	Sold in lots of	Unit reference	Weight kg
LEDs	≈ 24 V	White	1	DL1 CJ0241	0.002
		Green	1	DL1 CJ0243	0.002
		Red	1	DL1 CJ0244	0.002
		Orange	1	DL1 CJ0245	0.002
		Blue	1	DL1 CJ0246	0.002
	≈ 48 V	Green	1	DL1 CJ0483	0.002
		Red	1	DL1 CJ0484	0.002
		Orange	1	DL1 CJ0485	0.002
	6 V - 1.2 W	White	1	DL1 CD0061	0.002
		Green	1	DL1 CD0063	0.002
		Red	1	DL1 CD0064	0.002
		Orange	1	DL1 CD0065	0.002
Incandescent bulbs	6 V - 1.2 W	—	10	DL1 CB006	0.002
	24 V - 2 W	—	10	DL1 CE024	0.002
	120...130 V - 2.4 W	—	10	DL1 CE130	0.002
Neon bulbs	120...130 V	—	10	DL1 CF110	0.002
	230...240 V	—	10	DL1 CF220	0.002
Bulb extractor	—	—	1	XBF X13	0.005
Lens cap tightening tool	Illuminated pushbuttons, with flush push	—	1	ZBZ 8	0.009



ZBG 455P



XBZ S43

## Replacement keys

Description	Key number	Reference	Weight kg
<b>For Emergency Stop key release heads and key switches</b>			
Sets of 2 keys	455	ZBG 455	0.013
	421E	ZBG 421E	0.014
	458A	ZBG 458A	0.014
	520E	ZBG 520E	0.014
	3131A	ZBG 3131A	0.014
	4A185	ZBD A185	0.014
	LU1	ZBD LU1	0.014
	LU2	ZBD LU2	0.014
	LU3	ZBD LU3	0.014
	LU4	ZBD LU4	0.014
	LU5	ZBD LU5	0.014
	LU6	ZBD LU6	0.014
	LU7	ZBD LU7	0.014
	LU8	ZBD LU8	0.014
	LU9	ZBD LU9	0.014
	LU10	ZBD LU10	0.014
	LU11	ZBD LU11	0.014
	LU12	ZBD LU12	0.014
	LU13	ZBD LU13	0.014
	LU14	ZBD LU14	0.014
	8D1	ZBD 8D1	0.014

## For booted selector switches

Sets of 2 keys, one of which supplied booted (rubber boot)	455	ZBG 455P	—
	421E	ZBG 421EP	—
	458A	ZBG 458AP	—
	520E	ZBG 520EP	—
	3131A	ZBG 3131AP	—

## Accessory for key switches (1)


Description	Function	Reference	Weight kg
Keyhole cover (rubber cover)	Protection of lock barrel when no key inserted in lock	ZBG P	0.005

## Boot for standard handle

Description	For use with	Sold in lots of	Unit reference	Weight kg
Boot for standard handle	ZB4 BD●●	5	ZBD D2	0.005

## AS-i interface module for Ø 22 control and signalling units

## Panel fixing, in conjunction with a Harmony pushbutton or switch

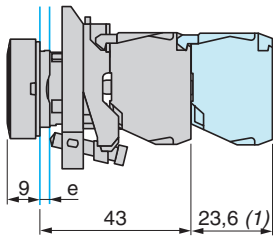
Description	Application	Reference	Weight kg
S7.F profile 	4 inputs and 4 outputs, direct supply from the bus	XBZ S43	0.100

(1) Not compatible with key switches with key TEC10.

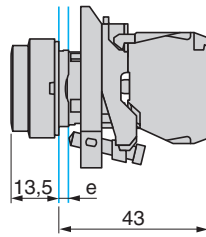
1

#### Pushbuttons, spring return

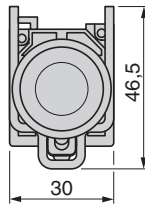
XB4 BA●●



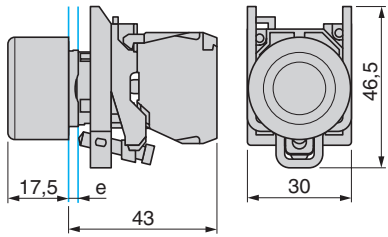
XB4 BL●●



Common face view



XB4 BP●●



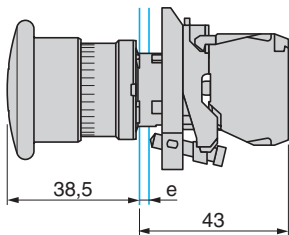
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

#### Mushroom head pushbuttons, spring return

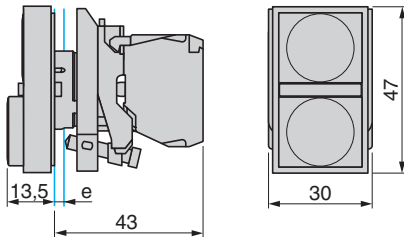
XB4 BC21



e: clamping thickness: 1 to 6 mm

#### Double-headed pushbuttons, spring return

XB4 BL●45

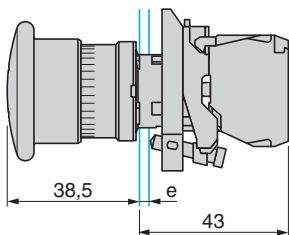


e: clamping thickness: 1 to 6 mm

#### Emergency stop mushroom head pushbuttons, trigger action and mechanical latching

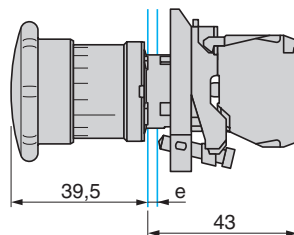
##### Push-pull

XB4 BT845



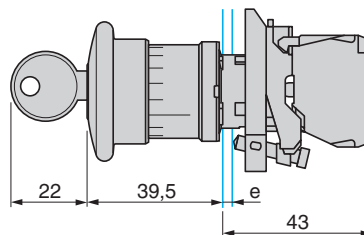
##### Turn to release

XB4 BS84441, BS8444, BS8445

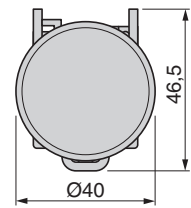


##### Key release

XB4 BS9445



Common face view



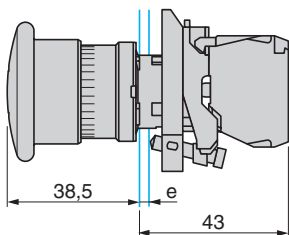
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

#### Emergency switching off mushroom head pushbuttons, mechanical latching

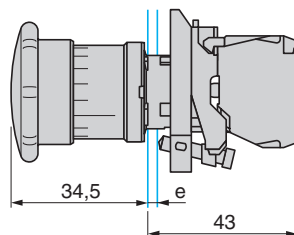
##### Push-pull

XB4 BT42



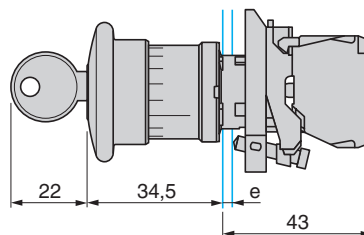
##### Turn to release

XB4 BS542

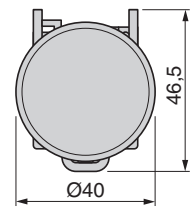


##### Key release

XB4 BS142



Common face view



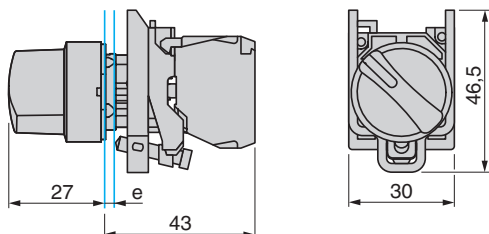
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

## Selector switches

### Standard handle operator

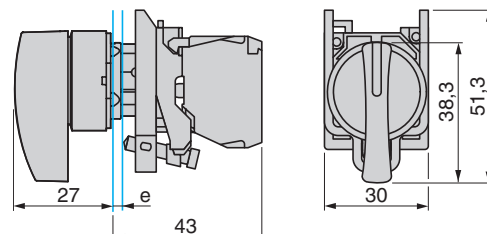
XB4 BD●●



e: clamping thickness: 1 to 6 mm

### Long handle operator

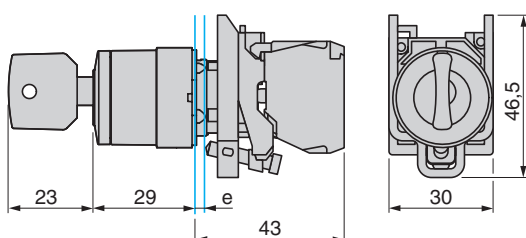
XB4 BJ●●



e: clamping thickness: 1 to 6 mm

## Key switches

XB4 BG●●



e: clamping thickness: 1 to 6 mm

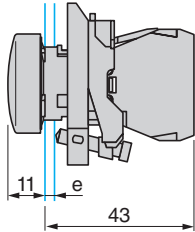


1

## Pilot lights

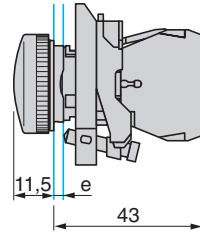
### Integral LED

XB4 BVB●, BVG●, BVM●



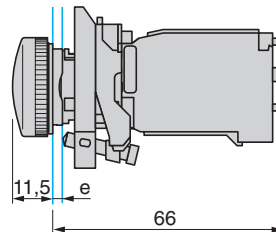
### Direct supply

XB4 BV6●

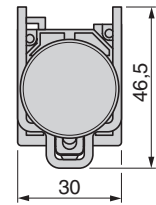


### Via integral transformer

XB4 BV3●, BV4●



Common face view



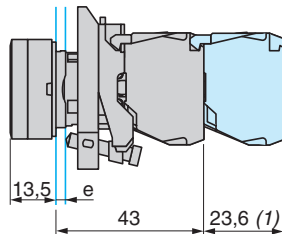
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

## Illuminated pushbuttons, spring return

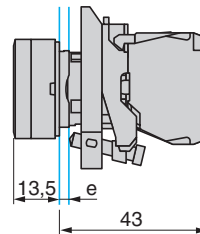
### Integral LED

XB4 BWB3●●5



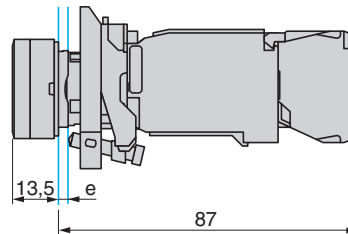
### Direct supply

XB4 BW3●65

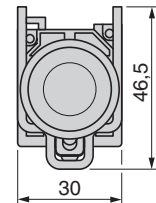


### Via integral transformer

XB4 BW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

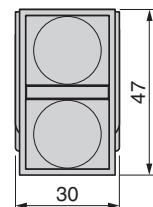
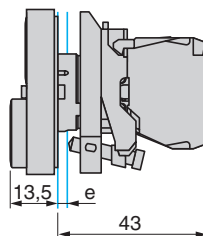
(1) Additional row of contacts or double contact

e: clamping thickness: 1 to 6 mm

## Double-headed pushbuttons with pilot light

### Integral LED

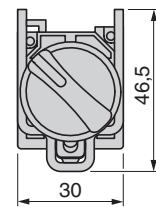
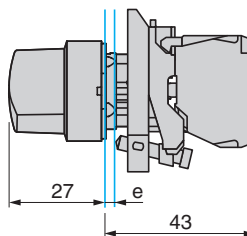
XB4 BW84●5



## Illuminated selector switches

### Integral LED

XB4 BK12●●5

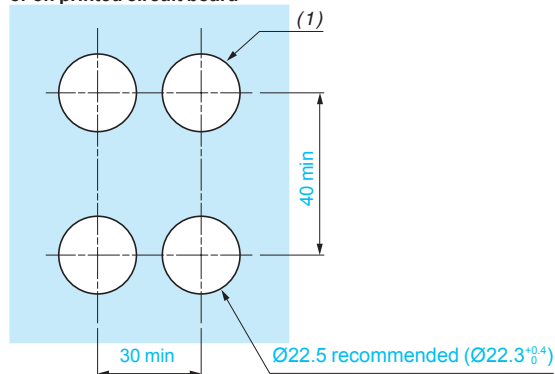


e: clamping thickness: 1 to 6 mm

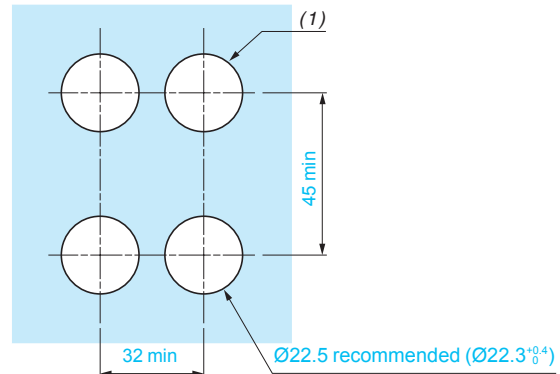
e: clamping thickness: 1 to 6 mm

## Panel cut-out for pushbuttons, switches and pilot lights (finished holes, ready for installation)

Connection by screw clamp terminals or plug-in connectors  
or on printed circuit board

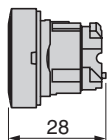


Connection by Faston connectors

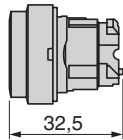


(1) Diameter on finished panel or support.

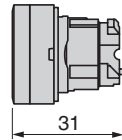
## Heads for spring return pushbuttons

ZB4 BA●, ZB4 BA●●●  
ZB4 BA●8


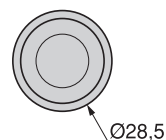
ZB4 BL●, ZB4 BL●●●



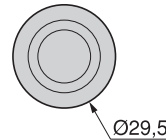
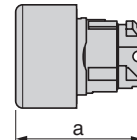
ZB4 BA●4, ZB4 BA●6



Common face view



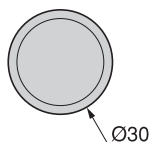
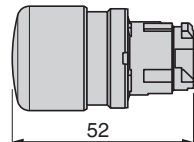
ZB4 BP●●, ZB4 BP●S, ZB4 BP●83, ZB4 BP●



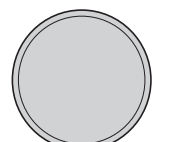
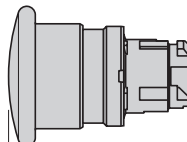
ZB4	a
BP●●	36.5
BP●S	33
BP●83	32
BP●	35

## Mushroom heads for spring return pushbuttons

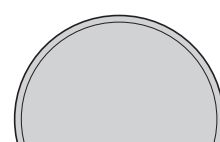
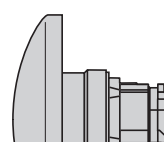
ZB4 BC●4



ZB4 BC●, ZB4 BR●

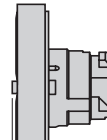
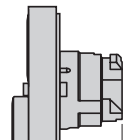


ZB4 BR●16

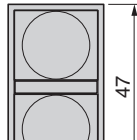
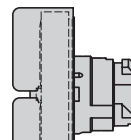
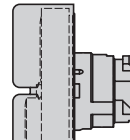


ZB4	Ø
BC●	40
BR●	60

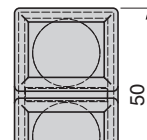
## Heads for double-headed, spring return pushbuttons

ZB4 BA81●●  
ZB4 BA82●●

ZB4 BL83●●  
ZB4 BL84●●


Common face view

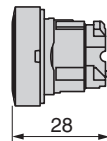

ZB4 BA91●●  
ZB4 BA92●●

ZB4 BL93●●  
ZB4 BL94●●


Common face view

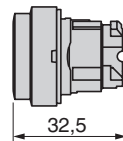


## Heads for "push-push to release" pushbuttons

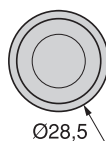
ZB4 BH0●



ZB4 BH●



Common face view

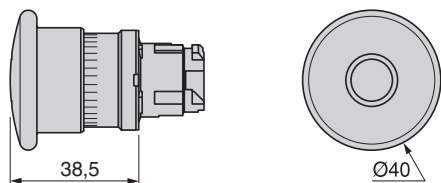


1

## Mushroom heads for Emergency stop, trigger action and mechanical latching pushbuttons

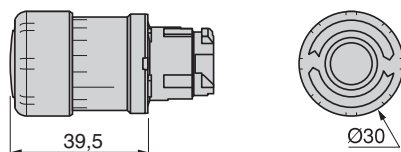
### Push-pull

ZB4 BT84

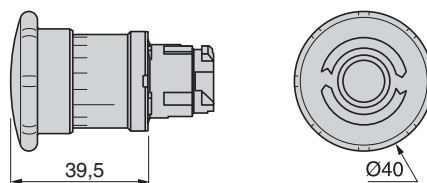


### Turn to release

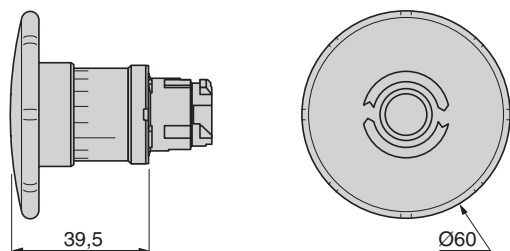
ZB4 BS834



ZB4 BS844

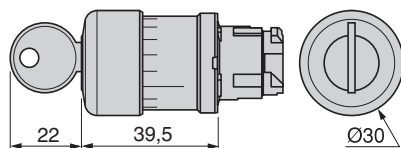


ZB4 BS864

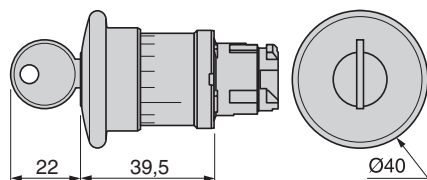


### Key release

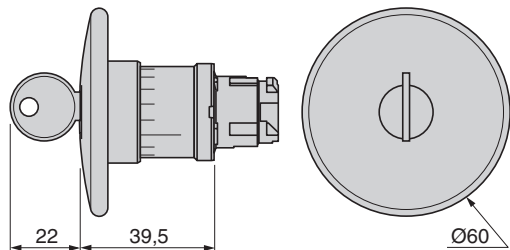
ZB4 BS934



ZB4 BS944



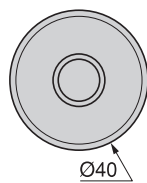
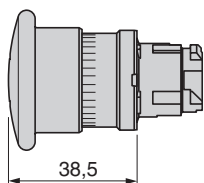
ZB4 BS964



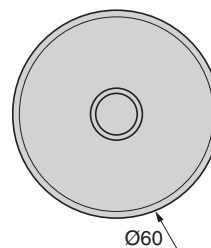
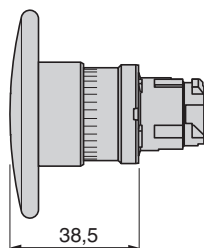
## Mushroom heads for Emergency switching off mechanical latching pushbuttons

### Push-pull

ZB4 BT4

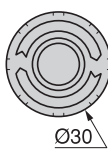
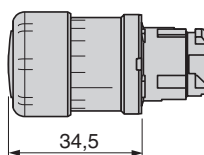


ZB4 BX4

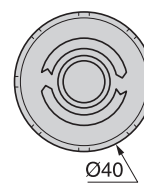
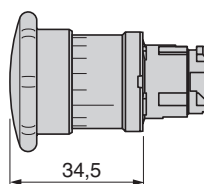


### Turn to release

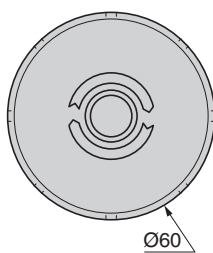
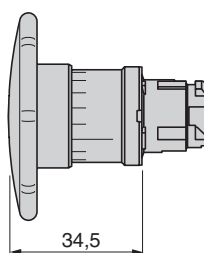
ZB4 BS44



ZB4 BS54

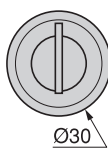
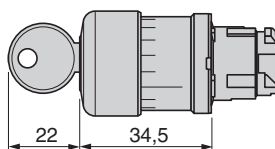


ZB4 BS64

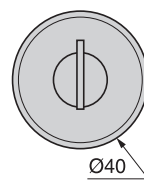
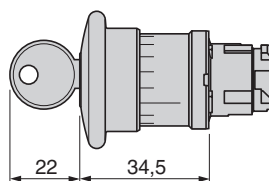


### Key release

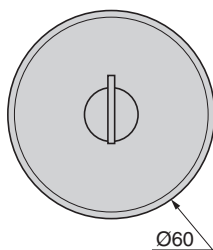
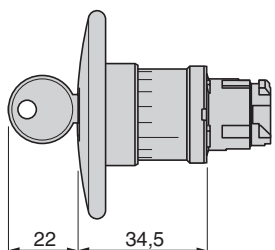
ZB4 BS74



ZB4 BS14



ZB4 BS24

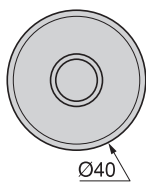
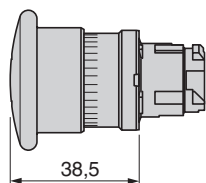


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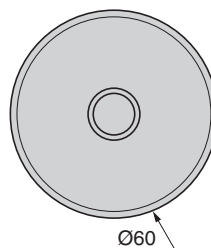
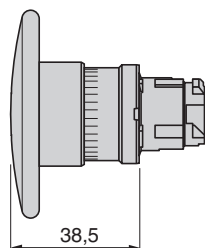
## Mushroom heads for latching pushbuttons (1)

### Push-pull

#### ZB4 BT2

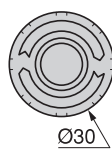
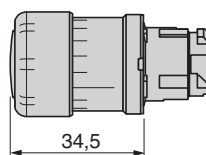


#### ZB4 BX2

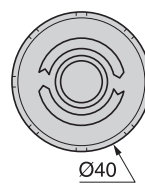
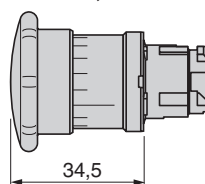


### Turn to release

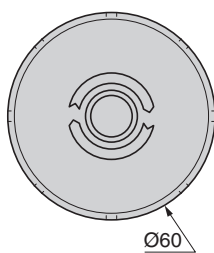
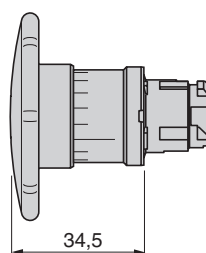
#### ZB4 BS42



#### ZB4 BS52, ZB4 BS55

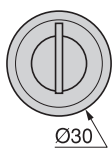
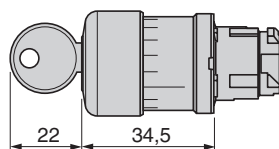


#### ZB4 BS62

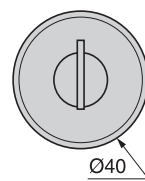
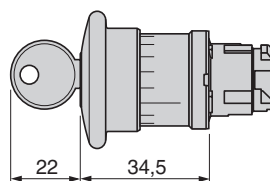


### Key release

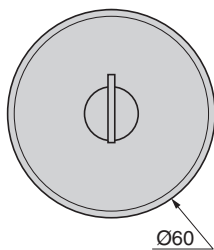
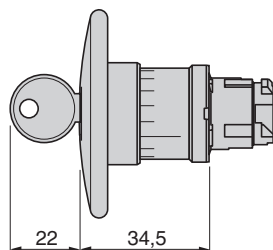
#### ZB4 BS72



#### ZB4 BS12



#### ZB4 BS22

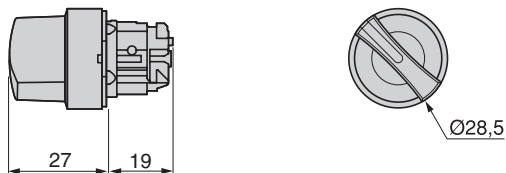


(1) Red mushroom heads for Emergency stop, latching pushbuttons: see pages 1/114 and 1/115.

## Heads for selector switches

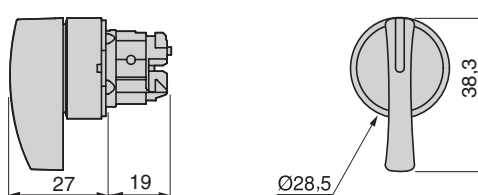
### Standard handle operator

ZB4 BD●, ZB4 BD0●M



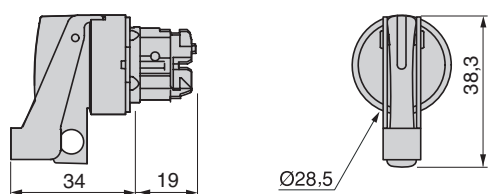
### Long handle operator

ZB4 BJ●, ZB4 BD0●M



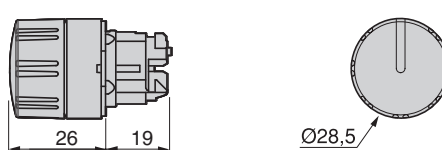
### Padlockable long handle operator (6.35 mm shank max.)

ZB4 BJ●9●



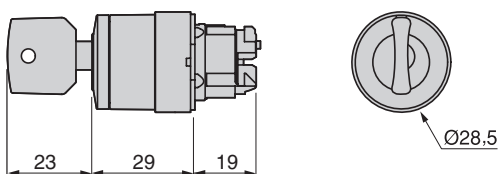
### Black knurled knob

ZB4 BD●9



## Key switches

ZB4 BG●, ZB4 BG0●, ZB4 BG0●M



## Heads for toggle switches

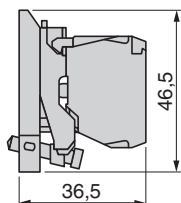
ZB4 BD●8



## Bodies for pushbuttons and switches

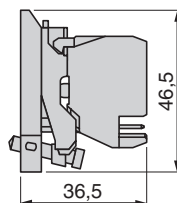
### Screw clamp terminal connections

ZB4 BZ10●, ZB4 BZ141



### Plug-in connector

ZB4 BZ10●4, ZB4 BZ1414

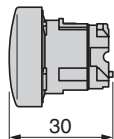


1

## Heads for pilot lights, with light source

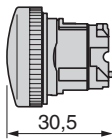
### Integral LED

ZB4 BV0●3, ZB4 BV0●3S

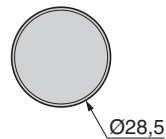


### Incandescent, neon or LED

ZB4 BV0●, ZB4 BV0●S



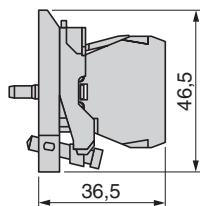
Common face view



## Bodies for pilot lights, screw clamp terminal connections

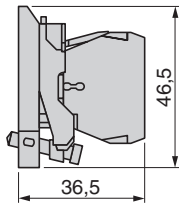
### Integral LED

ZB4 BV●●



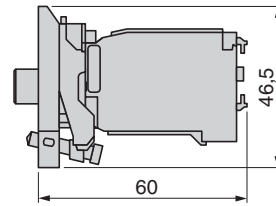
### Direct supply, for BA 9s bulb

ZB4 BV6



### Via integral transformer, for BA 9s bulb

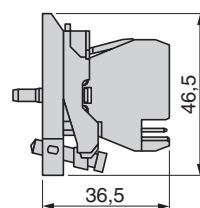
ZB4 BV●, ZB4 BV●D●



## Bodies for pilot lights, plug-in connector

### Integral LED

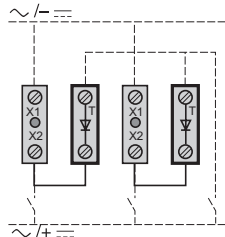
ZB4 BV●●4



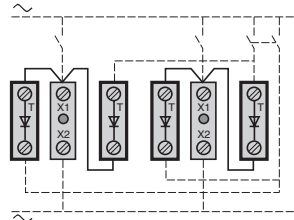
## Connections

### Blocks for "test light" function

ZBZ G156



ZBZ M156



## Heads for spring return illuminated pushbuttons, for light source types:

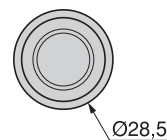
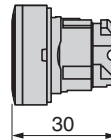
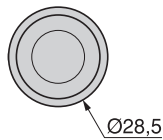
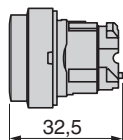
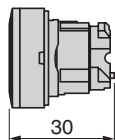
## LED

ZB4 BW3●3, ZB4 BW3●3S  
ZB4 BW5●3, ZB4 BA●8

ZB4 BW1●3, ZB4 BL●8

Common face view

ZB4 BW9●3

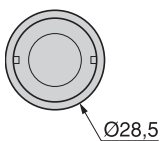
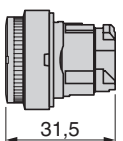
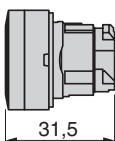


## Incandescent or neon

ZB4 BW3●3, ZB4 BW3●S

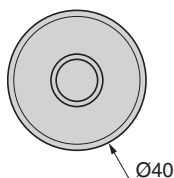
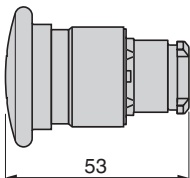
ZB4 BW1●

Common face view



## Heads for Ø 40 mm mushroom head illuminated pushbuttons with LED

ZB4 BW4●3, ZB4 BW6●3

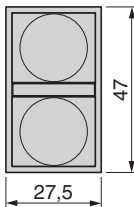
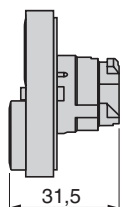
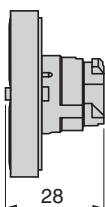


## Heads for double-headed pushbuttons with pilot light

ZB4 BW81●●3  
ZB4 BW82●●3

ZB4 BW83●●3  
ZB4 BW84●●3

Common face view

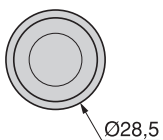
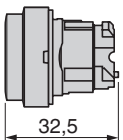
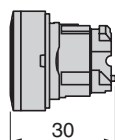


## Heads for illuminated "push-push to release" pushbuttons

ZB4 BH0●3

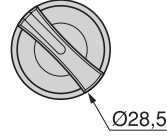
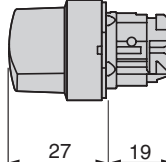
ZB4 BH●3

Common face view



## Heads for illuminated selector switches with standard handle

ZB4 BK1●●3



## Bodies for illuminated pushbuttons and switches

## Screw clamp terminal connections

## Integral LED

ZB4 BW0●●●

## Direct supply, BA 9s bulb

ZB4 BW06●

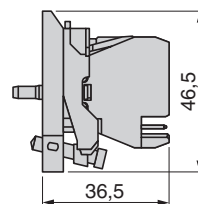
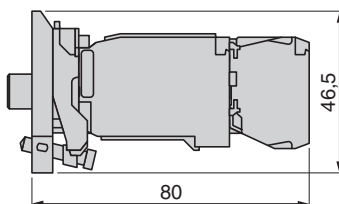
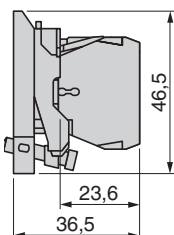
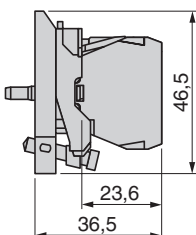
## Via integral transformer, BA 9s bulb

ZB4 BW0●●, BW0●D●●

## Plug-in connector

## Integral LED

ZB4 BW0●●●4

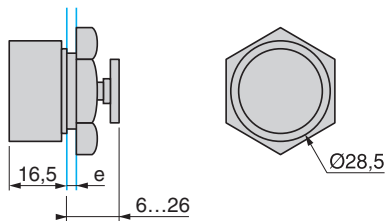




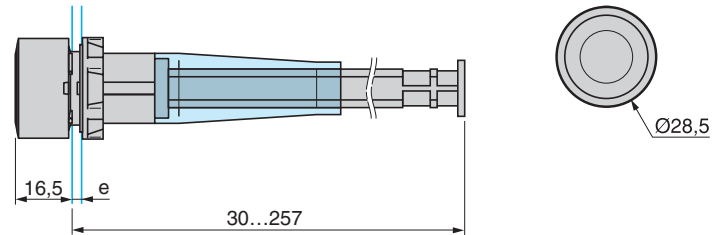
1

## Manual overload reset buttons

XB4 BA8●●



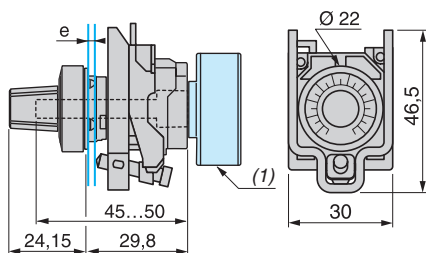
XB4 BA9●●



e: panel thickness 1 to 6 mm

## Heads + mounting base for potentiometer

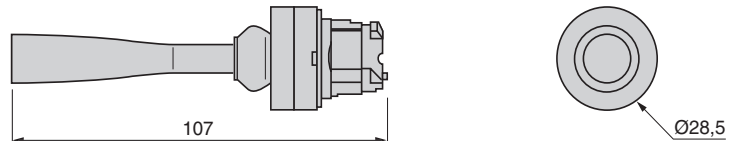
ZB4 BD9●2



(1) Potentiometer not included.

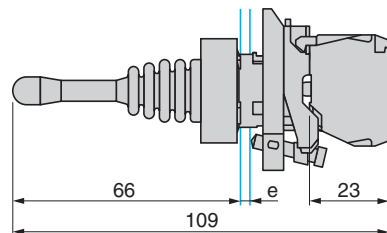
## Wobblestick head

ZB4 BB●

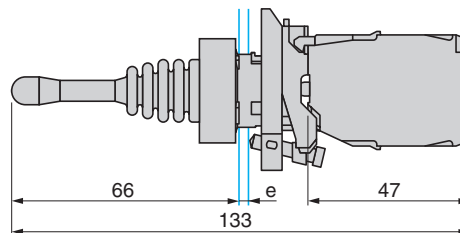


## Joystick controllers

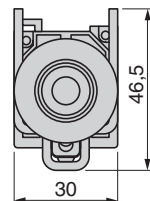
XD4 PA●2



XD4 PA●4



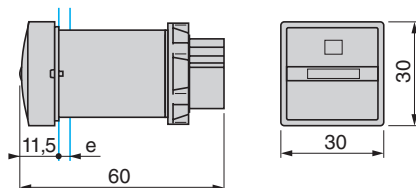
Common face view



e: panel thickness 1 to 6 mm

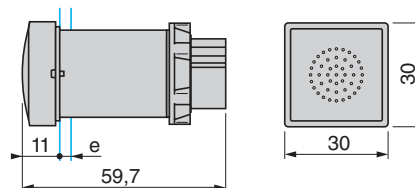
## Hour counters

XB5 DS●



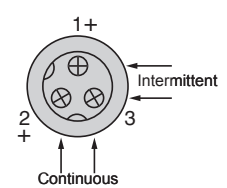
## Annunciators

XB5 KS●



## Cabling

XB5 KS●

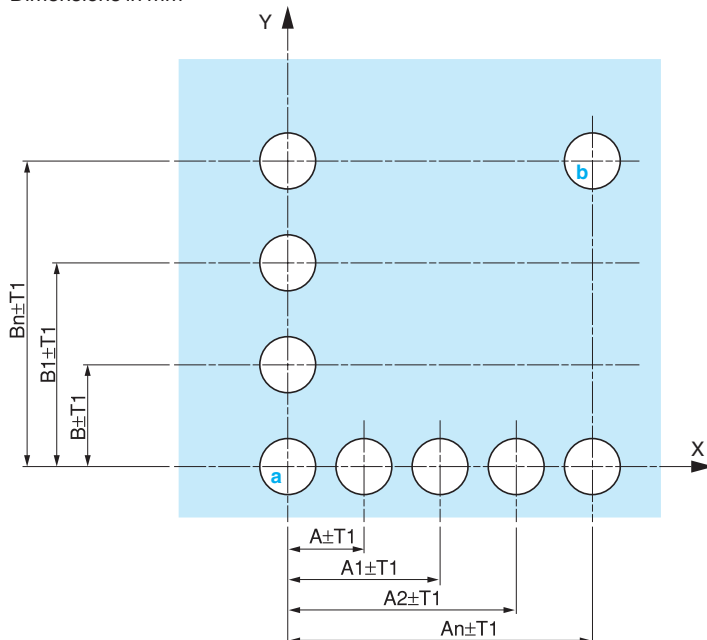


e: panel thickness 1 to 6 mm

#### Pushbuttons, switches and pilot lights for printed circuit board connection

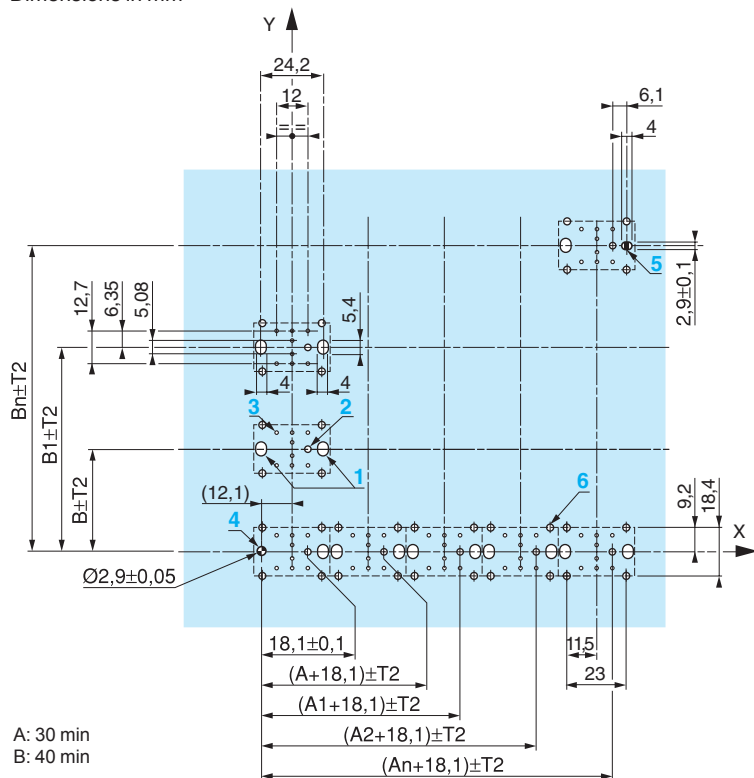
##### Panel cut-out (viewed from installer's side)

Dimensions in mm



##### Printed circuit board drillings (viewed from electrical block side)

Dimensions in mm



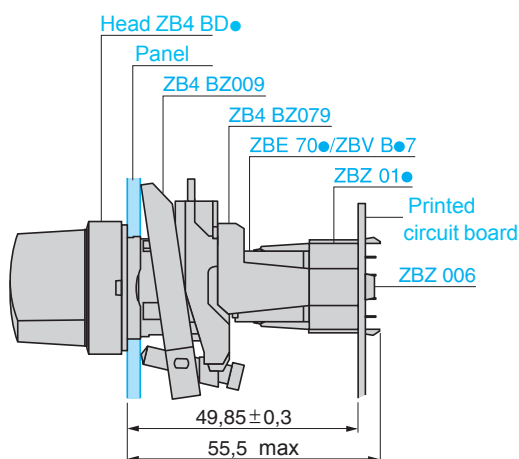
##### General tolerances of the panel and printed circuit board

The cumulative tolerance must not exceed 0.3 mm:  $T1 + T2 = 0.3$  mm max.

##### ■ Installation precautions:

- Minimum thickness of circuit board: 1.6 mm.
- Cut-out diameter:  $22.4 \text{ mm} \pm 0.1 \text{ mm}$ .
- Orientation of body/fixing collar ZB4 BZ009:  $\pm 2^\circ 30'$  (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
  - every 90 mm horizontally (X), and 120 mm vertically (Y).
  - with each selector switch head (ZB4 BD●, ZB4 BJ●, ZB4 BG●).

The fixing centres marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5** on the printed circuit board.

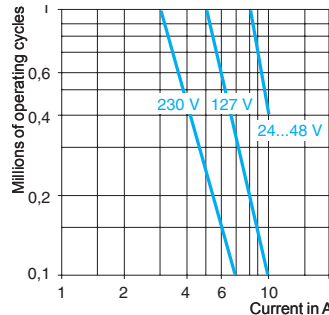


##### ■ Mounting of adapter (socket) ZBZ 01● :

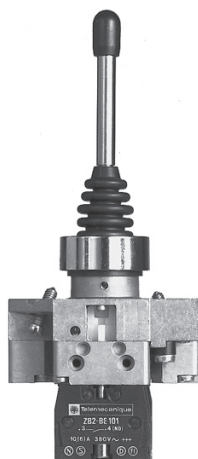
- 1 2 elongated holes for ZBZ 006 screw access.
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05$  for centring adapter ZBZ 01●.
- 3  $8 \times \varnothing 1.2 \text{ mm}$  holes.
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05$ , for aligning the printed circuit board (with cut-out marked **a**).
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**).
- 6 4 holes  $\varnothing 2.4 \text{ mm} \pm 0.05$  for clipping in adapter ZBZ 01●.

Dimensions  $An + 18.1$  relate to the  $\varnothing 2.4 \text{ mm} \pm 0.05$  holes for centring adapter ZBZ 01●.

1

Environment									
Conformity to standards	IEC 947-5-1, EN 60 947-5-1, IEC 337-1, VDE 0660-200								
Product certifications	Standard version: CSA A600-Q600, LRO								
Protective treatment	Standard version: "TC"								
Ambient air temperature	Operation: - 25...+ 70 °C. Storage: - 40...+ 70 °C								
Operating position	All positions								
Vibration resistance	5 gn (40 Hz < frequency < 500 Hz) conforming to IEC 68-2-6								
Shock resistance	20 gn conforming to IEC 68-2-27								
Electric shock protection	Class I, conforming to IEC 536 and NF C 20-030								
Degree of protection	IP 66 conforming to IEC 529 and NF C 20-010								
Mechanical life	1 million operating cycles								
Contact block characteristics									
Rated operational characteristics	~ AC-15; A300 or Ue = 240 V and Ie = 3 A --- DC13; Q300 or Ue = 250 V and Ie = 0.27 A conforming to IEC 947-5-1 Appendix A								
Rated insulation voltage	Ui: 500 V conforming to IEC 947-1; degree of pollution 3; 600 V conforming to UL 508 and CSA C 22-2 n° 14								
Rated impulse withstand voltage	U imp = 6 kV conforming to IEC 947-1								
Contact operation	Slow break N/O								
Short-circuit protection	10 A cartridge fuse type gG (gl) or N conforming to IEC 947-5-1, VDE 0660-200								
Terminal referencing	Conforming to CENELEC EN 50013								
Rated operational power	Conforming to IEC 947-5-1 Appendix C. Utilisation categories AC-15 and DC-13. Operating rate: 3600 operating cycles/hour. Load factor: 0.5								
<div><div><p><b>a.c. supply</b> ~ 50-60 Hz mm Inductive circuit</p></div><div><p><b>d.c. supply</b> --- Power broken in W for 1 million operating cycles</p><table><tr><th>Voltage V</th><th>24</th><th>48</th><th>120</th></tr><tr><th>mm W</th><td>65</td><td>48</td><td>40</td></tr></table></div></div>		Voltage V	24	48	120	mm W	65	48	40
Voltage V	24	48	120						
mm W	65	48	40						
Electrical reliability	Failure rate < 1 fault for 100 million operating cycles (programmable controller inputs, --- 24 V)								
Connection	- Screw and captive cable clamp terminals. Clamping capacity: min. 1 x 0.5 mm², max., with or without cable end: 2 x 1.5 mm² - 6.3 mm Faston connectors (on request)								

94172

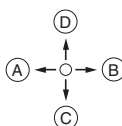
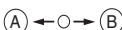


XD2 GA8211

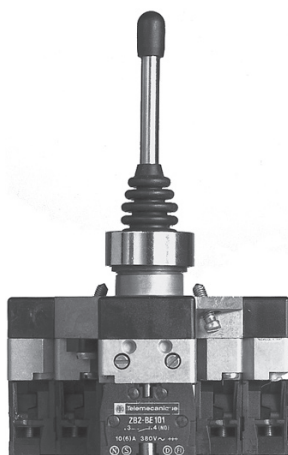
### Complete units type XD2 G, with chromium plated metal bezel

#### Interchangeable contacts

Description	Operation	Spring return to zero position	Bezel finish	Reference	Weight kg
<b>2 direction</b> Fixing centres 90 x 90 mm	1 notch 1 N/O contact per direction	Without	Shiny	<b>XD2 GA8211</b>	0.300
			Black	<b>XD2 GA82117</b>	0.300
		With	Shiny	<b>XD2 GA8221</b>	0.300
			Black	<b>XD2 GA82217</b>	0.300
	2 notches 2 N/O contacts per direction	Without	Shiny	<b>XD2 GA8231</b>	0.500
			Black	<b>XD2 GA82317</b>	0.500
		With	Shiny	<b>XD2 GA8241</b>	0.500
			Black	<b>XD2 GA82417</b>	0.500
	1 <sup>st</sup> notch stay put 2 <sup>nd</sup> notch with spring return to 1 <sup>st</sup> notch		Shiny	<b>XD2 GA8251</b>	0.500
			Black	<b>XD2 GA82517</b>	0.500
<b>4 direction</b> Fixing centres 90 x 90 mm	1 notch 1 N/O contact per direction	Without	Shiny	<b>XD2 GA8411</b>	0.330
			Black	<b>XD2 GA84117</b>	0.330
		With	Shiny	<b>XD2 GA8421</b>	0.330
			Black	<b>XD2 GA84217</b>	0.330
	2 notches 2 N/O contacts per direction	Without	Shiny	<b>XD2 GA8431</b>	0.550
			Black	<b>XD2 GA84317</b>	0.550
		With	Shiny	<b>XD2 GA8441</b>	0.550
			Black	<b>XD2 GA84417</b>	0.550
	1 <sup>st</sup> notch stay put 2 <sup>nd</sup> notch with spring return to 1 <sup>st</sup> notch		Shiny	<b>XD2 GA8451</b>	0.550
			Black	<b>XD2 GA84517</b>	0.550

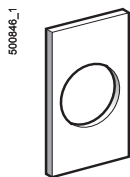


94173

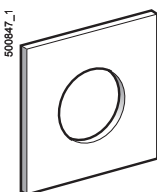


XD2 GA8441

1



ZD2 GY5201



ZD2 GY6201



ZB2 BE101

## Legend plates

Description	Text	Colour	Reference	Weight kg
<b>2 direction</b> 40 x 64 mm	Without	Black one side, red reverse	<b>ZD2 GY5201</b>	0.002
		White one side, yellow reverse	<b>ZD2 GY5401</b>	0.002
	With (1) (specify when ordering)	Black background, white letters	<b>ZD2 GY5002</b>	0.002
		Red background, white letters	<b>ZD2 GY5004</b>	0.002
		White background, black letters	<b>ZD2 GY5001</b>	0.002
		Yellow background, black letters	<b>ZD2 GY5005</b>	0.002
<b>4 direction</b> 64 x 64 mm	Without	Black one side, red reverse	<b>ZD2 GY6201</b>	0.003
		White one side, yellow reverse	<b>ZD2 GY6401</b>	0.003
	With (1) (specify when ordering)	Black background, white letters	<b>ZD2 GY6002</b>	0.003
		Red background, white letters	<b>ZD2 GY6004</b>	0.003
		White background, black letters	<b>ZD2 GY6001</b>	0.003
		Yellow background, black letters	<b>ZD2 GY6005</b>	0.003

## Contact blocks

Description	Contact	Reference	Weight kg
<b>Slow break</b> Additional or replacement	N/O	<b>ZB2 BE101</b>	0.015

(1) 2 lines of 11 characters maximum per direction.

## Other versions

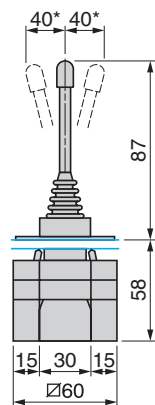
XD2 G joystick controllers with:

- variable composition; 2, 3, 4 or 8 direction,
- contact blocks with Faston connectors conforming to NF C 20-120,
- gold flashed contacts for low power switching.

Please consult your Regional Sales Office.

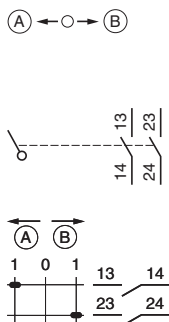
### XD2 GA●●

1 notch  
1 N/O contact per direction

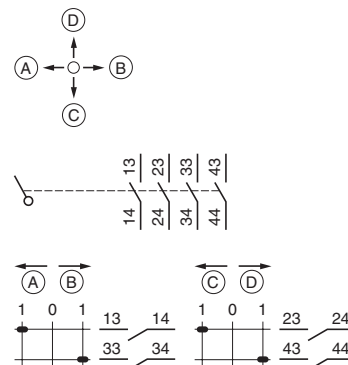


\* in each of the 4 directions

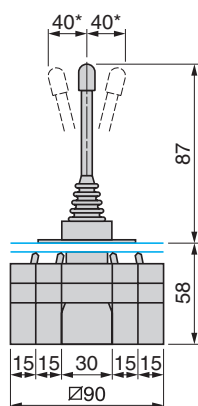
### XD2 GA8211, GA8217 XD2 GA8221, GA8227



### XD2 GA8411, GA8417 XD2 GA8421, GA8427

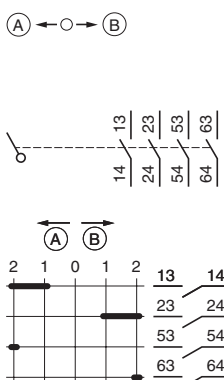


2 notches  
2 N/O contacts per direction

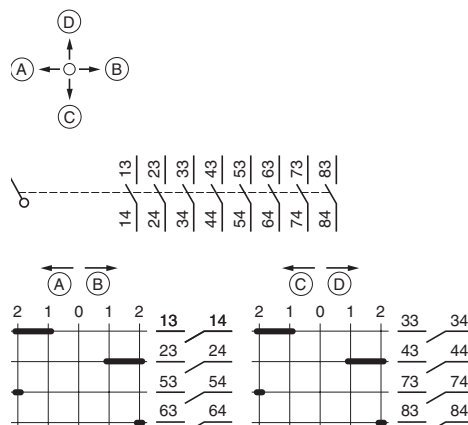


\* in each of the 4 directions

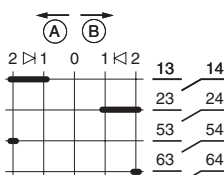
### XD2 GA8231, GA8237 XD2 GA8241, GA8247



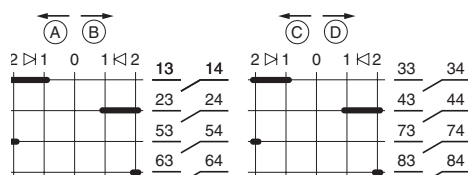
### XD2 GA8431, GA8437 XD2 GA8441, GA8447



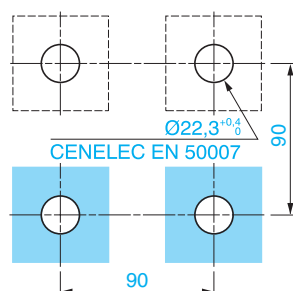
### XD2 GA8251, GA8257



### XD2 GA8451, GA8457



Panel cut-out  
(thickness 1 to 6 mm)  
XD2 GA (2 and 4 direction)



# Control and signalling units Ø 22

Harmony® XB5, plastic

Pushbuttons, switches and pilot lights

1

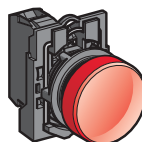
## Description

The Ø 22 range of plastic (double insulated) control and signalling units comprises:

### Complete units, XB5 A

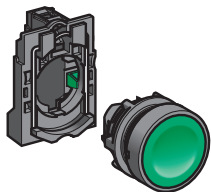


Pushbuttons and switches

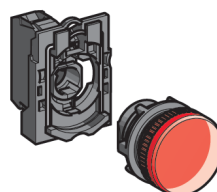


Pilot lights

### Sub-assemblies, ZB5 A

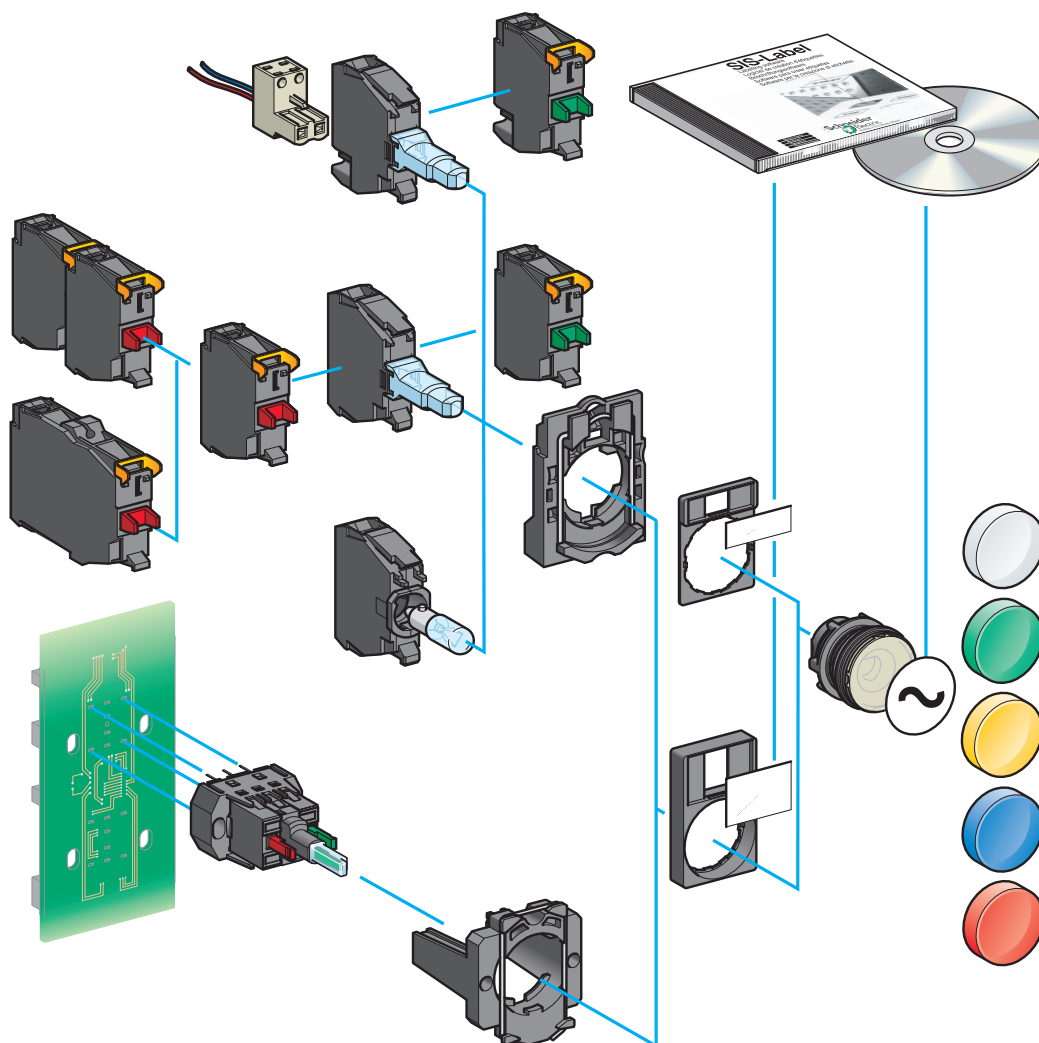


Pushbuttons and switches:  
body + head sub-assemblies



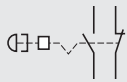
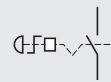
Pilot lights:  
body + head sub-assemblies

### ZB component parts and accessories

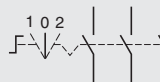
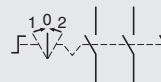
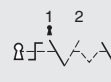


## Schematic library

## Contact functions (pushbuttons, Emergency stop and Emergency switching off pushbuttons)

Pushbutton  
N/O contactPushbutton  
N/C contactMushroom head spring return  
N/O contactEmergency switching off  
mushroom head pushbutton -  
Push-pull N/C contactEmergency stop trigger  
action mushroom head - Push-pull  
N/O + N/C contactsEmergency switching off  
mushroom head -  
Turn to release  
N/C contactEmergency switching off  
mushroom head -  
Turn to release, with key  
N/C contactEmergency stop trigger action  
mushroom head - Turn to release  
N/O + N/C contactsEmergency stop trigger  
action mushroom head  
Turn to release, with key  
N/O + N/C contactsDouble-headed pushbutton  
N/O + N/C contactsEarly make contact block  
N/O contactLate break contact block  
N/C contact

## Contact functions (selector switches)

Selector switch 2-position stay put  
N/O contactSelector switch 3-position stay put  
N/O+N/O+/N/O- contactsSelector switch 3-position  
2 spring return to centre  
N/O+N/O+/N/O- contactsSelector switch 2-position stay put,  
key withdrawal from LH position -  
N/O contactSelector switch 2-position spring return from right to left,  
key withdrawal from LH position  
N/O contact

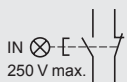
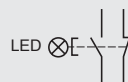
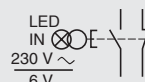
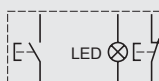
## Signalling functions

Pilot light with BA 9s  
incandescent bulb

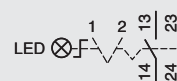
LED pilot light

Pilot light with integral transformer 230 V primary, 6 V secondary  
BA 9s bulb, incandescent or LED

## Combined functions, contact + signalling (pushbuttons and selector switches)

Illuminated pushbutton,  
BA 9s incandescent bulb  
N/O+N/C contactsIlluminated pushbutton  
LED - N/O+ N/C contactsIlluminated pushbutton with integral transformer  
230 V ~ 50/60 Hz primary, 6 V secondary  
BA 9s bulb, incandescent or LED - N/O+ N/C contacts

Double-headed pushbutton with LED pilot light

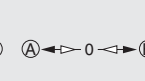
Illuminated selector switch with LED, 2-position stay put  
N/O + N/C contacts

## Joystick controller functions

## 2 direction

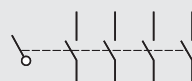


Without spring return

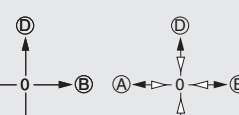


With spring return

## 4 direction



Without spring return



With spring return



## Complete units

## Contact functions

## Pushbuttons, spring return



Flush push, unmarked  
XB5 AA1/AA42  
see page 1/140



Flush push, with marking  
XB5 AA3311/AA331  
see page 1/144



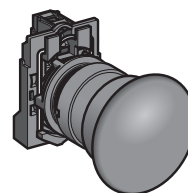
Projecting push, with marking  
XB5 AL4322  
see page 1/144



Booted flush push  
XB5 AP1/AP42  
see page 1/143

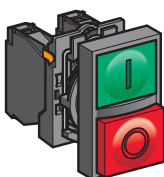


Projecting push, unmarked  
XB5 AL42  
see page 1/142

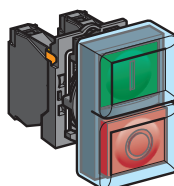


Ø 40

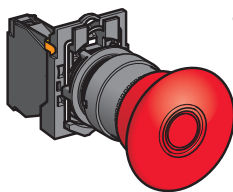
Mushroom head  
XB5 AC21  
see page 1/150

Double-headed pushbuttons,  
spring return

Flush push + projecting push  
XB5 AL845  
see page 1/149

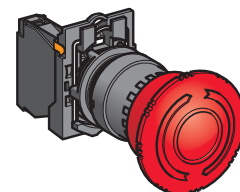


Booted flush push + projecting push  
XB5 AL945  
see page 1/149

Emergency mushroom head  
pushbuttons, Ø 40

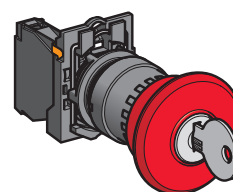
Ø 40

Emergency stop trigger  
action and mechanical  
latching  
XB5 AT845  
see page 1/152



Ø 40

Turn to release (EN/ISO 13850: 2006)  
XB5 AS84  
see page 1/152



Ø 40

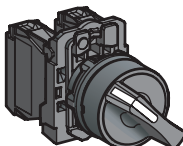
Key release (EN/ISO 13850: 2006)  
XB5 AS9445  
see page 1/152

Emergency switching off  
mechanical latching

Push-pull (IEC 60364-5-53)  
XB5 AT42  
see page 1/153

Turn to release (IEC 60364-5-53)  
XB5 AS542  
see page 1/153

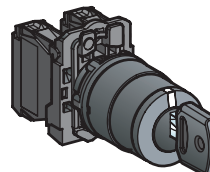
Key release (IEC 60364-5-53)  
XB5 AS142  
see page 1/153

Selector switches  
and key switches

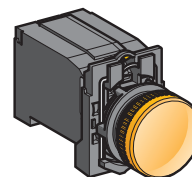
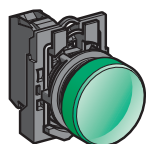
Standard handle, black  
XB5 AD  
see page 1/156



Long handle, black  
XB5 AJ  
see page 1/157



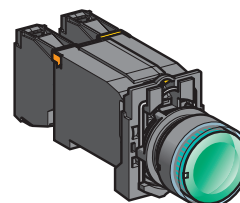
Key switch  
XB5 AG  
see page 1/158

**Complete units**  
(continued)**Signalling functions****Pilot lights**

Integral LED

XB5 AVB●/AVG●/AVM●  
see page 1/162For bulb with BA 9s base fitting  
Direct supplyXB5 AV6●  
see page 1/163

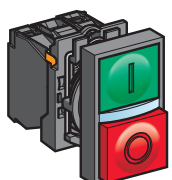
Via integral transformer

XB5 AV3●/AV4●  
see page 1/163**Combined functions (contact + signalling)****Illuminated pushbuttons,  
spring return, flush push**

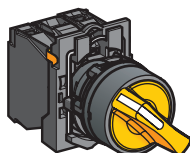
Integral LED

XB5 AW3●B5/AW3●G5/AW3●M5  
see page 1/145For bulb with BA 9s base fitting  
Direct supplyXB5 AW3●65  
see page 1/147

Via integral transformer

XB5 AW3●35/AW3●45  
see page 1/147**Double-headed pushbuttons,  
spring return, with pilot light**

Integral LED

XB5 AW84●5  
see page 1/149**Illuminated selector  
switches, standard handle**

Integral LED

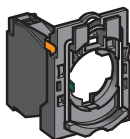
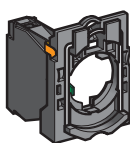
XB5 AK1●●3  
see page 1/160

## Control and signalling units Ø 22

Harmony® XB5, plastic

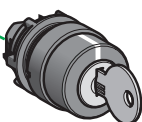
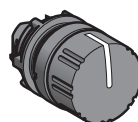
Pushbuttons, switches and pilot lights:  
sub-assemblies, ZB5 A

1

Non illuminated units  
for user assemblyFor pushbuttons,  
spring return, unmarkedBody  
sub-assembliesScrew clamp terminals  
ZB5 AZ10●/AZ141  
page 1/166Faston  
ZB5 AZ10●3  
page 1/170For pushbuttons,  
spring return, with markingFor double-headed  
pushbuttons, spring returnFor "push-push to release"  
pushbuttonsFor "push-turn to release"  
pushbuttons

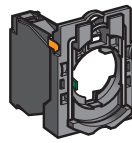
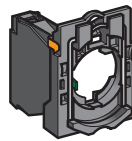
## Contact functions

## Head sub-assemblies

Flush push without  
cap/with set of 6 caps  
ZB5 AA0/AA9  
page 1/140Flush push  
ZB5 AA●  
page 1/140Flush push for  
insertion of legend  
ZB5 AA●8  
page 1/140Flush push, cap  
mounted/not mounted  
ZB5 CA0/CA●  
page 1/140Projecting  
ZB5 AL●  
page 1/142Recessed push  
ZB5 AA●  
page 1/141Booted flush push,  
for insertion of legend  
ZB5 AP●/AP●S  
page 1/142Projecting or  
recessed push  
ZB5 CA●/CL●  
page 1/141Flush push  
ZB5 AA●3●/AA●4●  
page 1/144Projecting push  
ZB5 AL●  
page 1/144Flush push  
ZB5 CA●3●/CA●9●  
page 1/144Flush pushes (IP 40/IP 66)  
Unmarked/with marking  
ZB5 AA81●/AA82●  
page 1/148ZB5 AA91●/AA92●  
page 1/148Flush push + projecting push (IP 40/IP 66)  
Unmarked/with marking  
ZB5 AL83●/AL84●  
page 1/148ZB5 AL93●/AL94●  
page 1/148Flush push (caps  
mounted/not mounted)  
ZB5 AH●/CH●  
page 1/154Projecting push  
ZB5 AH●  
page 1/154Flush push (caps  
mounted/not mounted)  
ZB5 CH0/CH0●  
page 1/154Key switches  
ZB5 AFD●  
page 1/155Knurled knob (1)  
ZB5 AF  
page 1/155

(1) Knob positions



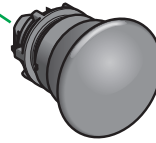
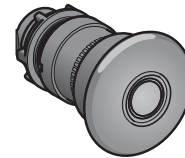
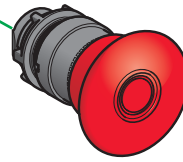
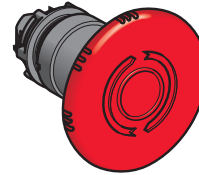
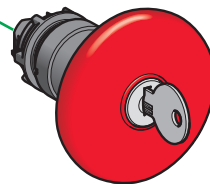
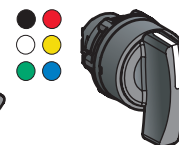
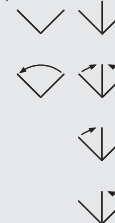
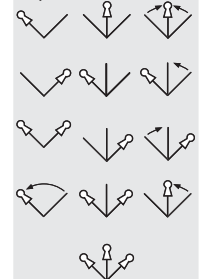
Non illuminated units  
for user assembly  
(continued)For mushroom head  
pushbuttonsScrew clamp terminals  
ZB5 AZ10●/AZ141  
page 1/166For mushroom head  
Emergency pushbuttonsEmergency stop trigger  
action and mechanical  
latchingFaston  
ZB5 AZ10●3  
page 1/170Emergency switching off  
mechanical latchingEmergency stop trigger  
action and mechanical  
latchingEmergency switching off  
mechanical latchingFor selector switches  
and key switches

For toggle switches

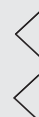
## Contact functions (continued)

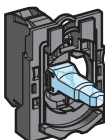
## Body sub-assemblies

## Head sub-assemblies


  
 Ø 30  
 Ø 40  
 Ø 60

  
 Ø 30  
 Ø 40  
 Ø 60
Spring  
ZB5 AC●/AR●  
see page 1/150Latching  
ZB5 A●2/AS●2/AS55  
see page 1/151
  
 Ø 30  
 Ø 40  
 Ø 60

  
 Ø 30  
 Ø 40  
 Ø 60
Push-pull (EN/ISO 13850: 2006)  
ZB5 AT84  
see page 1/152Turn to release (EN/ISO 13850: 2006)  
ZB5 AS8●4  
see page 1/152Push-pull (IEC 60364-5-53)  
ZB5 AT●/AX●  
see page 1/153Turn to release (IEC 60364-5-53)  
ZB5 AS44/AS54/AS64  
see page 1/153
  
 Ø 30  
 Ø 40  
 Ø 60
Key release (EN/ISO 13850: 2006)  
ZB5 AS9●4/AS944D, see page 1/152Key release (IEC 60364-5-53)  
ZB5 AS●4/AS14D, see page 1/153Standard handle (1)  
ZB5 AD●  
page 1/156Long black handle (1)  
ZB5 AJ●  
page 1/157Knurled black knob (1)  
ZB5 AD●9  
page 1/159Key switch (2)  
ZB5 AG●●  
page 1/159(1) Switch handle  
and knob  
positions(2) Key switch  
positions  
Key withdrawal  
positions

(3) Lever positions

2-position lever (3)  
ZB5 AD●8  
page 1/159

**Pilot lights  
for user assembly****Signalling functions****Body sub-assemblies  
with integral LED**

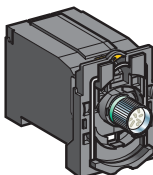
Connection: screw clamp terminals  
ZB5 AVB/AVG/AVM  
see page 1/174



Connection: plug-in connector  
Please consult your Regional  
Sales Office

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

Direct supply  
Connection: screw clamp terminals  
ZB5 AV6, page 1/177



Via integral transformer  
Connection: screw clamp terminals  
ZB5 AV●/AV3D●/AV5D●  
page 1/177

**Head sub-assemblies**

With lens fitted (insertion of legend)  
ZB5 AV0●3/AV0●3E, page 1/162



With lens fitted  
ZB5 CV0●3, page 1/162



With 5 lens caps (not fitted) for insertion of legend  
ZB5 AV003/AV0●3●, page 1/162



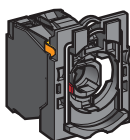
With 5 separate lens caps, not fitted  
ZB5 CV003, page 1/162

**Head sub-assemblies**

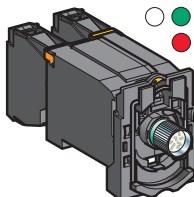
With lens fitted  
ZB5 AV0●, see page 1/163

**Illuminated  
pushbuttons  
for user assembly**

For illuminated pushbuttons,  
spring return



Direct supply  
Screw clamp terminals  
ZB5 AW06●, page 1/176



Via integral transformer  
Connection: screw clamp terminals  
ZB5 AW03/4/5/3D/4D/5D  
see page 1/176

**Head sub-assemblies**

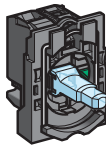
Flush  
ZB5 AW3●/AW3●S, see page 1/146



Projecting  
ZB5 AW1●/AW1●S, see page 1/146

Illuminated  
pushbuttons  
for user assemblyFor illuminated  
pushbuttons, spring returnBody sub-assemblies  
with integral LED

## Screw clamp terminals

ZB5 AW0B/AW0G/AW0M  
page 1/170For double-headed  
pushbuttons, spring return,  
with pilot light

## Plug-in connector

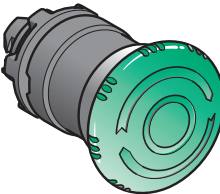
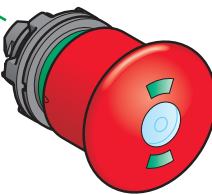
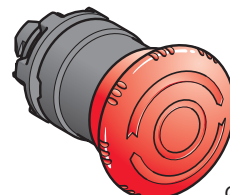
Please consult your  
Regional Sales OfficeFor illuminated, mushroom  
head pushbuttons latchingFor illuminated mushroom  
head Emergency Stop  
pushbuttons

- trigger action and mechanical latching
- or
- mechanical latching only

For illuminated "push-push  
to release" pushbuttonsFor illuminated selector  
switches, standard handle

## Combined functions (contact + signalling) (continued)

## Head sub-assemblies

Flush push  
Flush push with illuminated ring  
ZB5 AW3●3/AW3●3S/AW9●3  
page 1/146Flush push  
for insertion of legend  
ZB5 AA●8  
page 1/146Booted flush push  
ZB5 AW5●3  
page 1/146Projecting push  
ZB5 AW1●3/AW1●3S  
page 1/146Flush or projecting push  
Flush or projecting push for insertion of legend  
ZB5 CW3●3/CW1●3  
page 1/146Flush push  
Without/With marking  
ZB5 AW81●●3, p. 1/148  
ZB5 AW82●●3, p. 1/149Flush push + projecting push  
Without/With marking  
ZB5 AW83●●3, page 1/148  
ZB5 AW84●●3, page 1/149Turn to release  
ZB5 AW7●3, see page 1/151Push-pull with mechanical state  
indicator (EN 418/ISO 13850)  
ZB5 AT8643M, p. 1/152Push-pull  
ZB5 AW743, see page 1/153Flush or projecting "push-push to  
release"  
ZB5 AH0●3/AH●3  
see page 1/154Flush "Push-push to  
release"  
ZB5 CH3●3  
page 1/154Standard handle (1)  
ZB5 AK1●●3  
page 1/161

(1) Handle positions





## Environment

Protective treatment standard version			"TH"
Ambient air temperature around the device	Storage	°C	- 40...+ 70
	Operation	°C	- 25...+ 70: LED and neon bulb versions - 25...+ 55: incandescent bulb version
Electric shock protection	Conforming to IEC 60536		Class II
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switch) IP 54 (Emergency stop trigger action and mechanical latching pushbuttons with mechanical state indicator)
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
Resistance to high pressure washer		Pa	70 x 10 <sup>5</sup> (70 bar); distance: 0.1 m Temperature: 55 °C
Mechanical shock protection	Conforming to IEC 50102		Non illuminated heads: IK 03 Illuminated heads: IK 05 Selector switch heads: IK 06
Conforming to standards			EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5, EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action Emergency stops and mechanical latching pushbuttons, see page 1/152), IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons, see page 1/152), EN 81-1 (Emergency stop trigger action and mechanical latching pushbuttons with mechanical state indicator), see page 1/152 JIS C 4520, UL 508, CSA C22-2 n° 14
Product certifications	UL Listed, CSA		Standard single contacts with screw clamp terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD5 PA/ZD5 PA: A600; R300 Special contact blocks: □ ZBE 201: A300; Q300 □ ZBE 202: A600; Q600
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300
	BV, RINA, LROS, DNV, GL		Standard single contacts and double contacts with screw clamp terminals:
Terminal referencing	Conforming to EN 50005 and EN 50013		

## Characteristics of contact or combined contact and signalling functions (see page 1/138)

### Mechanical characteristics

Contact operation	N/C or N/O		Slow break
Positive operation	Conforming to EN/IEC 60947-5-1 appendix K		All functions incorporating a N/C contact have positive opening operation
Operating travel (to change the electrical state)	Pushbutton	mm	Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3
Operating force	Pushbutton	N	Changing N/C state: 3.5 Changing N/O state: 3.8
	Additional contact only (extra to change state)	N	Single N/C contact: 2 Single N/O contact: 2.3
		N	Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6
		N	Standard push-pull: 45 Trigger action push-pull 50
	Emergency stop or Emergency switching off with N/C + N/O	N	Standard turn to release and key release: 40 Trigger action turn to release and key release: 44

## Characteristics of contact or combined contact and signalling functions (continued) (see page 1/138)

Mechanical characteristics (continued)				
Operating torque (to change the electrical state)	Selector switches		N.m	N/O contact: 0.14
	Additional contact only		N.m	N/O contact: 0.05
Mechanical durability (in millions of operating cycles)	Pushbutton	Spring return		5
		Double-headed		1
		Push-push to release		0.5
	Selector switch	Non illuminated		1
		Illuminated		0.5
	Toggle switch			0.5
	Emergency stop or Emergency switching off pushbutton			0.3 with 4 contacts 0.3 with 2 contacts (Emergency stop with mechanical state indicator)
	Joystick controller			1
	Standard contact block only			5
	Low power switching contact block only (dust protected)			0.5
Vibration resistance	Conforming to IEC 60068-2-6			Frequency: 2 to 500 Hz: 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27			All functions except mushroom head pushbuttons, spring return: □ half sine wave acceleration 11 ms: 50 gn □ half sine wave acceleration 18 ms: 30 gn
				Mushroom head pushbutton, spring return □ half sine wave acceleration 11 ms: 15 gn
Electrical characteristics				
Cabling capacity	Conforming to EN 60947-1		mm²	Screw clamp terminals Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screw (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (max 1.2 N.m)
Contact material	Silver alloy (Ag / Ni)			Standard single and double blocks with screw clamp terminals Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)			Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection
Short-circuit protection	Conforming to EN/IEC 60947-5-1		A	Standard single and double blocks with screw clamp terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector: 4 (gG cartridge fuse conforming to IEC 60269-1) Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)
Rated thermal current	Conforming to EN/IEC 60947-5-1		A	Standard single and double blocks with screw clamp terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection : 6
Rated insulation voltage	Conforming to EN 60947-1		V	Standard single and double blocks with screw clamp terminals: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston connectors: Ui = 250, degree of pollution 3 Standard blocks for printed circuit board connection: Ui = 250, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN 60947-1		kV	Standard single and double blocks with screw clamp terminals: Uimp = 6 Blocks for plug-in connector: Uimp = 4 Standard blocks for printed circuit board connection: Uimp = 4



## Characteristics of contact or combined contact and signalling functions (continued) (see page 1/138)

### Electrical characteristics (continued)

#### Rated operational characteristics

Conforming to EN/IEC 60947-5-1

a.c. supply: utilisation category AC-15	Standard single and double blocks with screw clamp terminals: A600: $U_e = 600\text{ V}$ and $I_e = 1.2\text{ A}$ or $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$ or $U_e = 120\text{ V}$ and $I_e = 6\text{ A}$  Blocks for plug-in connector: A300: $U_e = 120\text{ V}$ and $I_e = 6\text{ A}$ or $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$  Standard blocks for printed circuit board connection: B300: $U_e = 120\text{ V}$ and $I_e = 3\text{ A}$ or $U_e = 240\text{ V}$ and $I_e = 1.5\text{ A}$  Special contact blocks: □ ZBE 201: A300: $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$ or $U_e = 120\text{ V}$ and $I_e = 6\text{ A}$ (with insulation voltage $U_i = 500\text{ V}$ ) □ ZBE 202: A600: $U_e = 600\text{ V}$ and $I_e = 1.2\text{ A}$ or $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$ or $U_e = 120\text{ V}$ and $I_e = 6\text{ A}$
--	---

d.c. supply: utilisation category DC-13	Standard single and double blocks with screw clamp terminals: Q600: $U_e = 600\text{ V}$ and $I_e = 0.1\text{ A}$ or $U_e = 250\text{ V}$ and $I_e = 0.27\text{ A}$ or $U_e = 125\text{ V}$ and $I_e = 0.55\text{ A}$  Joystick controllers XD5 PA/ZD5 PA: R300: $U_e = 125\text{ V}$ and $I_e = 0.22\text{ A}$ or $U_e = 250\text{ V}$ and $I_e = 0.1\text{ A}$  Blocks for plug-in connector: R300: $U_e = 125\text{ V}$ and $I_e = 0.22\text{ A}$ or $U_e = 250\text{ V}$ and $I_e = 0.1\text{ A}$  Standard blocks for printed circuit board connection: R300: $U_e = 125\text{ V}$ and $I_e = 0.22\text{ A}$ or $U_e = 250\text{ V}$ and $I_e = 0.1\text{ A}$ Special contact blocks: □ ZBE 201: Q300: $U_e = 125\text{ V}$ and $I_e = 0.55\text{ A}$ or $U_e = 250\text{ V}$ and $I_e = 0.27\text{ A}$ □ ZBE 202: Q600: $U_e = 600\text{ V}$ and $I_e = 0.1\text{ A}$ or $U_e = 250\text{ V}$ and $I_e = 0.27\text{ A}$ or $U_e = 125\text{ V}$ and $I_e = 0.55\text{ A}$
--	---

#### Characteristics of special contact blocks for low power switching

<b>VA</b>	P max: 12
<b>A</b>	I max: 0.1
<b>V</b>	U max: 24

#### Electrical durability

Conforming to EN/IEC 60947-5-1 appendix C  
Operating rate 3600 operating cycles/hour.  
Load factor: 0.5

a.c. supply for 1 million operating cycles utilisation category AC-15	<b>V</b>	Standard single blocks with screw clamp terminals:		
	<b>A</b>	24	120	230
	<b>V</b>	4	3	2
	<b>A</b>	Standard double blocks with screw clamp terminals and blocks for plug-in connector:		
	<b>V</b>	24	120	230
	<b>A</b>	3	1.5	1
d.c. supply for 1 million operating cycles utilisation category DC-13	<b>V</b>	Standard single blocks with screw clamp terminals:		
	<b>A</b>	24	110	
	<b>V</b>	0.5	0.2	
	<b>A</b>	Standard double blocks with screw clamp terminals and blocks for plug-in connector:		
	<b>V</b>	24	110	
	<b>A</b>	0.4	0.15	

#### Electrical reliability

##### Failure rate

Conforming to EN/IEC 60947-5-4

In clean environment	Standard blocks: - at 17 V and 5 mA, $\lambda < 10^{-8}$ - at 5 V and 1 mA, $\lambda < 10^{-6}$  Special blocks with gold flashed contacts, for low power switching: - at 5 V and 1 mA, $\lambda < 10^{-7}$
In dusty environment	Special blocks with gold flashed contacts and dust protection for low power switching only: - at 5 V and 1 mA, $\lambda < 10^{-7}$

## Characteristics of illuminated units (pilot lights)

### Mechanical characteristics

Vibration resistance	Conforming to IEC 60068-2-6		Frequency: 12 to 500 Hz: 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27		Half sine wave acceleration 11 ms: 50 gn Half sine wave acceleration 18 ms: 30 gn

### Electrical characteristics

Cabling capacity	Conforming to EN 60947-1	mm <sup>2</sup>	Screw clamp terminals Min: 1 x 0.22 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end
Rated insulation voltage	Conforming to EN 60947-1	V	Direct supply pilot light blocks (BA 9s bulb): Ui = 250, degree of pollution 3 Pilot light blocks with integral LED: Ui = 250, degree of pollution 3 Pilot light blocks with transformer: Ui = 600, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN 60947-1	kV	Direct supply pilot light blocks (BA 9s bulb): Uimp = 4 Pilot light blocks with integral LED: Uimp = 4 Pilot light blocks with transformer: Uimp = 6

## Specific characteristics of single light blocks with integral LED

Voltage limits	For rated voltage	V	12 V: 10 to 15 ~, 10.2 to 13.8 ~ 24 V: 19.2 to 30 ~, 21.6 to 26.4 ~ 24 to 120 V: 19.2 to 132 ~, 21.6 to 132 ~ 48 to 120 V: 40 to 132 ~ 230/240 V: 195 to 264 ~
Current consumption	Applicable to all colours	mA	Blocks with ~ 12 V supply: 18 Blocks with ~ 24 V supply: 18 Blocks with ~ 120 V supply: 14 Blocks with ~ 240 V supply: 14
Service life	At rated voltage and at an ambient temperature of 25 °C	H	100 000
Surge withstand	Conforming to IEC 61000-4-5	kV	1
Resistance to fast transients	Conforming to IEC 61000-4-4	kV	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	V/m	10
Resistance to electrostatic discharges	Conforming to IEC 61000-4-2	kV	8: in free air, on insulating parts 6: on contact, on metal parts
Direct parallel connection across inductive load E.g.: contactor coil or solenoid	Maximum power of load	VA	For high power applications (≥ 30 VA), a ZBZ V• LED suppressor must be connected across the light block terminals (see page 1/175)
Electromagnetic emission	Conforming to IEC 55011		Class B

## Specific characteristics

### Fixing nut

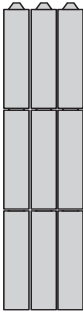

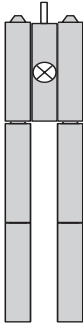
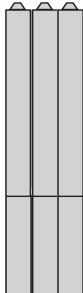
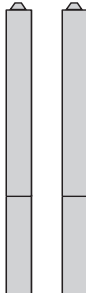
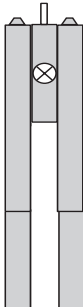
Head tightening torque		N.m	2.2 (± 0.2)
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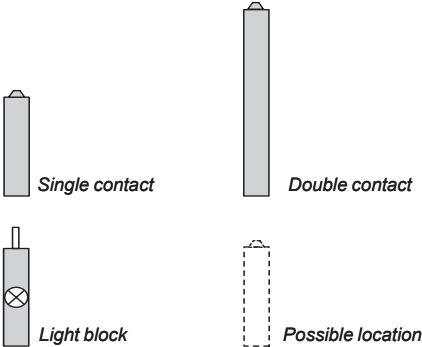
### Hour counters and annunciators

Voltage limits	Hour counter and annunciator	V	± 10% of the nominal voltage
Current consumption	Hour counter	mA	XB5 DSB: 7 to 15 XB5 DSG: 8 XB5 DSM: 8
	Annunciator	mA	5

1
















Maximum recommended configurations guaranteeing achievement of catalogue characteristics

Unit type (complete units XB5 A, heads ZB5 A)		Pushbuttons, spring return XB5 AA●, ZB5 AA●, XB5 AC●, ZB5 BC● XB5 AL●, ZB5 AL● XB5 AP●, ZB5 AP● ZB5 AR●	Double-headed pushbuttons XB5 BL●45, ZB5 AL8●, ZB5 AA8●, ZB5 AA9●, ZB5 AL9●	Illuminated pushbuttons XB5 AW●, ZB5 AW● Double-headed illuminated pushbuttons XB5 BW84●, ZB5 AW8●●●●●3	
Solution using single contacts					
Solution using single and double contacts					
Maximum recommended configurations		9 3 + 3 —	6 2 + 2 —	6 2 + 2 1	
		Single contacts			
		Double contacts + single contacts			
		Light block			



Emergency Stop or Emergency switching off XB5 AT●, ZB5 AT●, XB5 AS●, ZB5 AS●		Selector switches ■ Standard handle XB5 BD●, ZB5 AD●, ■ Long handle XB5 BJ●, ZB5 AJ●, ■ Knurled knob ZB5 AD●9, ■ Key switch XB5 BG●, ZB5 AG●				Illuminated selector switches with standard handle XB5 AK●, ZB5 AK● Illuminated Emergency Stop ZB5 AT8643M, ZB5 AW743	Toggle switches ZB5 AD●8 Pushbuttons, push-turn to release, knurled ZB5 AF●, or key-operated ZB5 FAD●	Pushbuttons, push-push ZB5 AH●	Illuminated pushbuttons, push-push ZB5 AH●3
4	4	5	4	6	4	6	3	2	
2	1	2	1	2	2	3	—	—	
+	+	+	+	+	+	+	—	—	
0	2	1	2	2	0	0	—	—	
—	—	—	—	—	1	—	—	1	

### Sequence of contacts fitted to selector switch bodies

Unit type			Selector switches													
			2-position			3-position										
			315°		45°	315°		0°	45°							
																
Push	Position	Top														
		Bottom														
	Location	L	C	R	L	C	R	L	C	R	L	C	R	L	C	R
	State	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1
Contacts	N/O	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	N/C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L left, C centre, R right																
□ open, ■ closed																

Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see pages 1/178 and 1/182

1



XB5 AA31



ZB5 AA0



ZB5 AA5






ZB5 AA68



ZB5 CA5

Pushbuttons with flush push <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
						
		N/O	N/C			kg
Complete units						
	Flush	1	—	White	<b>XB5 AA11</b> (ZB5 AZ101 + ZB5 AA1)	0.037
				Black	<b>XB5 AA21</b> (ZB5 AZ101 + ZB5 AA2)	0.037
				Green	<b>XB5 AA31</b> (ZB5 AZ101 + ZB5 AA3)	0.037
				Yellow	<b>XB5 AA51</b> (ZB5 AZ101 + ZB5 AA5)	0.037
				Blue	<b>XB5 AA61</b> (ZB5 AZ101 + ZB5 AA6)	0.037
				—	1	Red

## Heads only, circular

	Without cap <sup>(2)</sup>	—	<b>ZB5 AA0</b>	0.022
	Flush, with set of 6 coloured caps	6 colours <sup>(3)</sup>	<b>ZB5 AA9</b>	0.027
	Flush	White	<b>ZB5 AA1</b>	0.018
		Black	<b>ZB5 AA2</b>	0.018
		Green	<b>ZB5 AA3</b>	0.018
		Red	<b>ZB5 AA4</b>	0.018
		Yellow	<b>ZB5 AA5</b>	0.018
		Blue	<b>ZB5 AA6</b>	0.018
	Flush with transparent cap for insertion of legend <sup>(4)</sup>	Grey	<b>ZB5 AA8</b>	0.018
		White	<b>ZB5 AA18</b>	0.018
		Green	<b>ZB5 AA38</b>	0.018
		Red	<b>ZB5 AA48</b>	0.018
		Yellow	<b>ZB5 AA58</b>	0.018
		Blue	<b>ZB5 AA68</b>	0.018
	Flush (high bezel)	White	<b>ZB5 AA14</b>	0.020
		Black	<b>ZB5 AA24</b>	0.020
		Green	<b>ZB5 AA34</b>	0.020
		Red	<b>ZB5 AA44</b>	0.020
		Yellow	<b>ZB5 AA54</b>	0.020
		Blue	<b>ZB5 AA64</b>	0.020

## Heads only, square

	Without cap <sup>(2)</sup>	—	<b>ZB5 CA0</b>	0.022
	Flush	White	<b>ZB5 CA1</b>	0.019
		Black	<b>ZB5 CA2</b>	0.019
		Green	<b>ZB5 CA3</b>	0.019
		Red	<b>ZB5 CA4</b>	0.019
		Yellow	<b>ZB5 CA5</b>	0.019
		Blue	<b>ZB5 CA6</b>	0.019

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) Coloured cap to be ordered separately: see page 1/178.



(3) Head supplied with 6 different coloured caps (white, black, green, red, yellow, blue) not fitted.

(4) For legend ordering information, see page 1/182.

Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see pages 1/178 and 1/182



ZB5 AA16

Pushbuttons with recessed push <sup>(1)</sup>				
High guard				
Shape of head	Type of push	Colour	Reference	Weight kg
Heads only, circular				
	Recessed (high guard)	White	ZB5 AA16	0.020
		Black	ZB5 AA26	0.020
		Green	ZB5 AA36	0.020
		Red	ZB5 AA46	0.020
		Yellow	ZB5 AA56	0.020
		Blue	ZB5 AA66	0.020
Heads only, square				
	Recessed (high guard)	White	ZB5 CA16	0.012
		Black	ZB5 CA26	0.012
		Green	ZB5 CA36	0.012
		Red	ZB5 CA46	0.012
		Yellow	ZB5 CA56	0.012
		Blue	ZB5 CA66	0.012

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.



ZB5 CA16

Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see pages 1/178 and 1/182

Control and signalling units Ø 22

Harmony® XB5, plastic  
Spring return pushbuttons, unmarked

1








XB5 AL42



ZB5 AL3



ZB5 CL1

Pushbuttons with projecting push <sup>(1)</sup>						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
		 N/O	 N/C			
Complete units						
	Projecting	—	1	Red	<b>XB5 AL42</b> (ZB5 AZ102 + ZB5 AL4)	0.038
Heads only, circular						
	Projecting			White	<b>ZB5 AL1</b>	0.019
				Black	<b>ZB5 AL2</b>	0.019
				Green	<b>ZB5 AL3</b>	0.019
				Red	<b>ZB5 AL4</b>	0.019
				Yellow	<b>ZB5 AL5</b>	0.019
				Blue	<b>ZB5 AL6</b>	0.019
Heads only, square						
	Projecting			White	<b>ZB5 CL1</b>	0.021
				Black	<b>ZB5 CL2</b>	0.021
				Green	<b>ZB5 CL3</b>	0.021
				Red	<b>ZB5 CL4</b>	0.021
				Yellow	<b>ZB5 CL5</b>	0.021
				Blue	<b>ZB5 CL6</b>	0.021

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

Assembly of other products using:  
body/contact assemblies: see page 1/166 combined  
sub-assemblies: see page 1/170 accessories: see  
page 1/182



XB5 AP51



ZB5 AP4



ZB5 AP2S



ZB5 AP183

## Pushbuttons with booted head (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
		N/O	N/C			kg
<b>Complete units</b>						
	<b>Booted, clear silicone</b> (colour of push unobscured)	1	—	Black	<b>XB5 AP21</b> (ZB5 AZ101 + ZB5 AP2)	0.039
				Green	<b>XB5 AP31</b> (ZB5 AZ101 + ZB5 AP3)	0.039
				Yellow	<b>XB5 AP51</b> (ZB5 AZ101 + ZB5 AP5)	0.039
				Blue	<b>XB5 AP61</b> (ZB5 AZ101 + ZB5 AP6)	0.039
		—	1	Red	<b>XB5 AP42</b> (ZB5 AZ102 + ZB5 AP4)	0.039

## Silicone booted heads only, with increased protection (IP 69K)

	<b>Flush</b> <b>Clear boot (2)</b> For insertion of protected legend within head (3)			White	<b>ZB5 AP18</b>	0.023
				Green	<b>ZB5 AP38</b>	0.023
				Red	<b>ZB5 AP48</b>	0.023
				Yellow	<b>ZB5 AP58</b>	0.023
				Blue	<b>ZB5 AP68</b>	0.023
	<b>Projecting</b> <b>Clear boot (2)</b>			White	<b>ZB5 AP1</b>	0.014
				Black	<b>ZB5 AP2</b>	0.014
				Green	<b>ZB5 AP3</b>	0.014
				Red	<b>ZB5 AP4</b>	0.014
				Yellow	<b>ZB5 AP5</b>	0.014
				Blue	<b>ZB5 AP6</b>	0.014

## Silicone booted heads only, standard for mouting with legend holder (IP 66)

	<b>Flush</b> <b>Coloured boot (4)</b>			White	<b>ZB5 AP1S</b>	0.021
				Black	<b>ZB5 AP2S</b>	0.021
				Green	<b>ZB5 AP3S</b>	0.021
				Red	<b>ZB5 AP4S</b>	0.021
				Yellow	<b>ZB5 AP5S</b>	0.021
				Blue	<b>ZB5 AP6S</b>	0.021
	<b>Clear membrane (4)</b> For insertion of protected legend within head (3)			White	<b>ZB5 AP183</b>	0.010
				Green	<b>ZB5 AP383</b>	0.010
				Red	<b>ZB5 AP483</b>	0.010
				Yellow	<b>ZB5 AP583</b>	0.010
				Blue	<b>ZB5 AP683</b>	0.010

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.

(3) To order a legend for insertion within the head, see page 1/187.

(4) Replacement of silicone protection element without dismantling head, see page 1/180.



Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see pages 1/178 and 1/182

1



XB5 AA4322



ZB5 AA331



ZB5 AA432



ZB5 CA432



ZB5 AL232

## Pushbuttons with flush or projecting push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact		Marking Text (colour)	Colour of push	Reference	Weight kg
		N/O	N/C				
<b>Complete units</b>							
	Flush	1	–	"I" (white)	Green	<b>XB5 AA3311</b> (ZB5 AZ101 + ZB5 AA331)	0.037
	Flush	–	1	"O" (white)	Red	<b>XB5 AA4322</b> (ZB5 AZ102 + ZB5 AA432)	0.037
	Projecting	–	1	"O" (white)	Red	<b>XB5 AL4322</b> (ZB5 AZ102 + ZB5 AL432)	0.037
	Flush (2)	1	–	↑ (black)	White	<b>XB5 AA3341</b> (ZB5 AZ101 + ZB5 AA334)	0.037
	Flush (2)	1	–	↓ (white)	Black	<b>XB5 AA3351</b> (ZB5 AZ101 + ZB5 AA335)	0.037
<b>Heads only, circular</b>							
	Flush			"I" (white)	Green	<b>ZB5 AA331</b>	0.018
				"I" (black)	White	<b>ZB5 AA131</b>	0.018
				"II" (white)	Green	<b>ZB5 AA336</b>	0.018
				"II" (black)	White	<b>ZB5 AA136</b>	0.018
				"START" (white)	Green	<b>ZB5 AA333</b>	0.018
				"START" (black)	White	<b>ZB5 AA133</b>	0.018
				"ON" (white)	Green	<b>ZB5 AA341</b>	0.018
				"ON" (black)	White	<b>ZB5 AA141</b>	0.018
				"MARCHE" (white)	Green	<b>ZB5 AA342</b>	0.018
				"MARCHE" (black)	White	<b>ZB5 AA142</b>	0.018
				(white)	Black	<b>ZB5 AA245</b>	0.018
				(black)	White	<b>ZB5 AA145</b>	0.018
				"O" (white)	Red	<b>ZB5 AA432</b>	0.018
					Black	<b>ZB5 AA232</b>	0.018
				"ARRET" (white)	Red	<b>ZB5 AA433</b>	0.018
					Black	<b>ZB5 AA233</b>	0.018
				"STOP" (white)	Red	<b>ZB5 AA434</b>	0.018
					Black	<b>ZB5 AA234</b>	0.018
				"OFF" (white)	Red	<b>ZB5 AA435</b>	0.018
					Black	<b>ZB5 AA235</b>	0.018
				UP (black)	White	<b>ZB5 AA343</b>	0.018
				Down (white)	Black	<b>ZB5 AA344</b>	0.018
				↑ (black) (2)	White	<b>ZB5 AA334</b>	0.018
				↓ (white) (2)	Black	<b>ZB5 AA335</b>	0.018
<b>Heads only, square</b>							
	Flush (2)			"I" (white)	Green	<b>ZB5 CA331</b>	0.019
				"O" (white)	Red	<b>ZB5 CA432</b>	0.019
				"+" (white)	Black	<b>ZB5 CA2934</b>	0.019
				↑ (white)	Black	<b>ZB5 CA2912</b>	0.019
				"R" (white)	Blue	<b>ZB5 CA6939</b>	0.019
<b>Heads only, circular</b>							
	Projecting (2)			"O" (white)	Red	<b>ZB5 AL432</b>	0.019
					Black	<b>ZB5 AL232</b>	0.019
				"ARRET" (white)	Red	<b>ZB5 AL433</b>	0.019
					Black	<b>ZB5 AL233</b>	0.019
				"STOP" (white)	Red	<b>ZB5 AL434</b>	0.019
					Black	<b>ZB5 AL234</b>	0.019
				"OFF" (white)	Red	<b>ZB5 AL435</b>	0.019
					Black	<b>ZB5 AL235</b>	0.019

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see pages 1/178 and 1/182



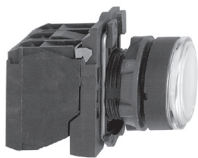

# Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated pushbuttons, spring return, with integral LED

## Illuminated pushbuttons with flush push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact		Supply voltage	Colour of push	Reference	Weight
		N/O	N/C				
				<b>V</b>			<b>kg</b>
<b>Complete units - With plain lens</b>							
 XB5 AW31B5	 Protected LED	1	1	~ 24 50/60 Hz	White	<b>XB5 AW31B5</b> (ZB5 AW0B15 + ZB5 AW313)	0.056
					Green	<b>XB5 AW33B5</b> (ZB5 AW0B35 + ZB5 AW333)	0.056
					Red	<b>XB5 AW34B5</b> (ZB5 AW0B45 + ZB5 AW343)	0.056
					Orange	<b>XB5 AW35B5</b> (ZB5 AW0B55 + ZB5 AW353)	0.056
					Blue	<b>XB5 AW36B5</b> (ZB5 AW0B65 + ZB5 AW363)	0.056
				~ 110...120 50/60 Hz	White	<b>XB5 AW31G5</b> (ZB5 AW0G15 + ZB5 AW313)	0.056
					Green	<b>XB5 AW33G5</b> (ZB5 AW0G35 + ZB5 AW333)	0.056
					Red	<b>XB5 AW34G5</b> (ZB5 AW0G45 + ZB5 AW343)	0.056
					Orange	<b>XB5 AW35G5</b> (ZB5 AW0G55 + ZB5 AW353)	0.056
					Blue	<b>XB5 AW36G5</b> (ZB5 AW0G65 + ZB5 AW363)	0.056
				~ 230...240 50/60 Hz	White	<b>XB5 AW31M5</b> (ZB5 AW0M15 + ZB5 AW313)	0.056
					Green	<b>XB5 AW33M5</b> (ZB5 AW0M35 + ZB5 AW333)	0.056
					Red	<b>XB5 AW34M5</b> (ZB5 AW0M45 + ZB5 AW343)	0.056
					Orange	<b>XB5 AW35M5</b> (ZB5 AW0M55 + ZB5 AW353)	0.056
					Blue	<b>XB5 AW36M5</b> (ZB5 AW0M65 + ZB5 AW363)	0.056





(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

Assembly of other products using:  
combined sub-assemblies: see page 1/172  
accessories: see page 1/182


1





## Illuminated pushbuttons with flush push (1)

Shape of head	Type of push	Colour	Reference	Weight (kg)
<b>Heads only, circular (2) - With plain lens</b>				
	Flush	White	ZB5 AW313	0.017
		Green	ZB5 AW333	0.017
		Red	ZB5 AW343	0.017
		Orange	ZB5 AW353	0.017
		Blue	ZB5 AW363	0.017
	Flush with illuminated ring	White	ZB5 AW913	0.016
		Green	ZB5 AW933	0.016
		Red	ZB5 AW943	0.016
		Orange	ZB5 AW953	0.016
		Blue	ZB5 AW963	0.016
	Flush with clear boot	White	ZB5 AW513	0.019
		Green	ZB5 AW533	0.019
		Red	ZB5 AW543	0.019
		Orange	ZB5 AW553	0.019
		Blue	ZB5 AW563	0.019
	Flush for insertion of legend (3)	White	ZB5 AA18	0.018
		Green	ZB5 AA38	0.018
		Red	ZB5 AA48	0.018
		Orange	ZB5 AA58	0.018
		Blue	ZB5 AA68	0.018




## Heads only, circular (2) - With grooved lens (4)

	Flush	White	ZB5 AW313S	0.017
		Green	ZB5 AW333S	0.017
		Red	ZB5 AW343S	0.017
		Orange	ZB5 AW353S	0.017
		Blue	ZB5 AW363S	0.017

## Heads only, square (2)

	Flush (legend can be inserted)	White	ZB5 CW313	0.023
		Green	ZB5 CW333	0.023
		Red	ZB5 CW343	0.023
		Orange	ZB5 CW353	0.023
		Blue	ZB5 CW363	0.023
	Flush (high guard)	White	ZB5 CW3136	0.014
		Green	ZB5 CW3336	0.014
		Red	ZB5 CW3436	0.014
		Orange	ZB5 CW3536	0.014
		Blue	ZB5 CW3636	0.014

## Illuminated pushbuttons with projecting push (1)

Shape of head	Type of push	Colour	Reference	Weight (kg)
Heads only, circular (2) - With plain lens				
 <b>Protected LED</b>	Projecting	White	ZB5 AW113	0.018
		Green	ZB5 AW133	0.018
		Red	ZB5 AW143	0.018
		Orange	ZB5 AW153	0.018
		Blue	ZB5 AW163	0.018
Heads only, circular (2) - With grooved lens (4)				
 <b>Protected LED</b>	Projecting	White	ZB5 AW113S	0.017
		Green	ZB5 AW133S	0.017
		Red	ZB5 AW143S	0.017
		Orange	ZB5 AW153S	0.017
		Blue	ZB5 AW163S	0.017
Heads only, square (2)				
 <b>Protected LED</b>	Projecting (legend can be inserted)	White	ZB5 CW113	0.024
		Green	ZB5 CW133	0.024
		Red	ZB5 CW143	0.024
		Orange	ZB5 CW153	0.024
		Blue	ZB5 CW163	0.024

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) Only for use with bodies comprising a light source with integral LED.

(3) For legend ordering information, see page 1/182.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
combined sub-assemblies: see page 1/172  
accessories: see page 1/182



# Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated pushbuttons, spring return,  
with BA 9s base fitting

## Illuminated pushbuttons with flush push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact		Supply voltage	Colour of push	Reference	Weight
							
		N/O	N/C	V			kg


### Complete units - With plain lens

	<b>Direct supply</b> for bulb with BA 9s base fitting, 2.4 W max, (bulb not included)	1	1	≤ 250	White	<b>XB5 AW3165</b> (ZB5 AW065 + ZB5 AW31)	0.057
					Green	<b>XB5 AW3365</b> (ZB5 AW065 + ZB5 AW33)	0.057
					Red	<b>XB5 AW3465</b> (ZB5 AW065 + ZB5 AW34)	0.057
					Orange	<b>XB5 AW3565</b> (ZB5 AW065 + ZB5 AW35)	0.057
	<b>Via integral transformer</b> 1.2 VA, 6 V secondary, incandescent bulb with BA 9s base fitting, (bulb included)	1	1	~ 110...120 50/60 Hz	White	<b>XB5 AW3135</b> (ZB5 AW035 + ZB5 AW31)	0.128
					Green	<b>XB5 AW3335</b> (ZB5 AW035 + ZB5 AW33)	0.128
					Red	<b>XB5 AW3435</b> (ZB5 AW035 + ZB5 AW34)	0.128
					Orange	<b>XB5 AW3535</b> (ZB5 AW035 + ZB5 AW35)	0.128
				~ 230 50 Hz ~ 220...240 60 Hz	White	<b>XB5 AW3145</b> (ZB5 AW045 + ZB5 AW31)	0.129
					Green	<b>XB5 AW3345</b> (ZB5 AW045 + ZB5 AW33)	0.129
					Red	<b>XB5 AW3445</b> (ZB5 AW045 + ZB5 AW34)	0.129
					Orange	<b>XB5 AW3545</b> (ZB5 AW045 + ZB5 AW35)	0.129

### Heads only (2) - With plain lens


	<b>Flush</b>	White	<b>ZB5 AW31</b>	0,018
		Green	<b>ZB5 AW33</b>	0,018
		Red	<b>ZB5 AW34</b>	0,018
		Orange	<b>ZB5 AW35</b>	0,018
		Blue	<b>ZB5 AW36</b>	0,018
		Clear	<b>ZB5 AW37</b>	0,018

### Heads only (2) - With grooved lens (3)

	<b>Flush</b>	White	<b>ZB5 AW31S</b>	0.018
		Green	<b>ZB5 AW33S</b>	0.018
		Red	<b>ZB5 AW34S</b>	0.018
		Orange	<b>ZB5 AW35S</b>	0.018
		Blue	<b>ZB5 AW36S</b>	0.018
		Clear	<b>ZB5 AW37S</b>	0.018

## Illuminated pushbuttons with projecting push (1)

### Heads only (2) - With plain lens

	<b>Projecting</b>	White	<b>ZB5 AW11</b>	0.017
		Green	<b>ZB5 AW13</b>	0.017
		Red	<b>ZB5 AW14</b>	0.017
		Orange	<b>ZB5 AW15</b>	0.017
		Blue	<b>ZB5 AW16</b>	0.017
		Clear	<b>ZB5 AW17</b>	0.017

### Heads only (2) - With grooved lens (3)

	<b>Projecting</b>	White	<b>ZB5 AW11S</b>	0.018
		Green	<b>ZB5 AW13S</b>	0.018
		Red	<b>ZB5 AW14S</b>	0.018
		Orange	<b>ZB5 AW15S</b>	0.018
		Blue	<b>ZB5 AW16S</b>	0.018
		Clear	<b>ZB5 AW17S</b>	0.018

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) Only for use with bodies comprising a light source with BA9s base fitting bulb (incandescent, neon or LED).

(3) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
combined sub-assemblies: see page 1/170  
accessories: see pages 1/179 and 1/182

# Control and signalling units Ø 22

Harmony® XB5, plastic

Double-headed pushbuttons, spring return  
unmarked

1

814440



ZB5 AL8334

814442



ZB5 AL9334

110421



ZB5 AW812743

814567



ZB5 AW833743

## Double-headed pushbuttons (1)

Shape of head	Description	Colour of pushes	Degree of protection	Reference	Weight kg
<b>Heads only</b>					
	<b>2 flush pushes</b>	Green Red	IP 40	<b>ZB5 AA8134</b>	0.022
			IP 66	<b>ZB5 AA9134</b>	0.027
		White Black	IP 40	<b>ZB5 AA8112</b>	0.022
			IP 66	<b>ZB5 AA9112</b>	0.027
	<b>1 flush push 1 projecting push</b>	Green Red	IP 40	<b>ZB5 AL8334</b>	0.021
			IP 66	<b>ZB5 AL9334</b>	0.026
		White Black	IP 40	<b>ZB5 AL8312</b>	0.021
			IP 66	<b>ZB5 AL9312</b>	0.026

## Double-headed pushbuttons with pilot light (IP 40) (1) (2)

Shape of head	Description	Colour of pushes	Colour of pilot light	Reference	Weight kg
<b>Heads only (3)</b>					
	<b>1 flush push 1 central pilot light 1 flush push</b>	Black Red	Clear (4)	<b>ZB5 AW812743</b>	0.022
		Green Red	Clear (4)	<b>ZB5 AW813743</b>	0.022
		White Black	Clear (4)	<b>ZB5 AW811723</b>	0.022
	<b>1 flush push 1 central pilot light 1 projecting push</b>	Black Red	Clear (4)	<b>ZB5 AW812743</b>	0.021
		Green Red	Clear (4)	<b>ZB5 AW833743</b>	0.021
		White Black	Clear (4)	<b>ZB5 AW831723</b>	0.021

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) For a head with IP 66 degree of protection or NEMA type 4X, fit a clear sealing boot **ZBW 008**, see page 1/180.

(3) Only for use with bodies comprising a light source with integral LED.

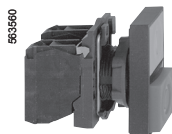
(4) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body sub-assembly.

Assembly of other products using:  
combined sub-assemblies: see page 1/170  
accessories: see pages 1/179 and 1/182

# Control and signalling units Ø 22

Harmony® XB5, plastic

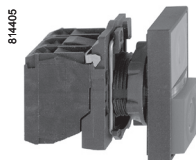
Double-headed pushbuttons, spring return  
with marking



XB5 AL845



ZB5 AL8434



XB5 AW84B5



ZB5 AW823743



ZB5 AW843743

## Double-headed pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact		Colour of pushes	Degree of protection	Reference	Weight
							kg
		N/O	N/C				

### Complete units

	1 flush green push (marked "I")	1	1	Green Red	IP 40	<b>XB5 AL845</b> (ZB5 AZ105 + ZB5 AL8434)	0.049
	1 projecting red push (marked "O")				IP 66	<b>XB5 AL945</b> (ZB5 AZ105 + ZB5 AL9434)	0.054

### Heads only

	2 flush pushes (marked "I") (marked "O")			Green	IP 40	<b>ZB5 AA8234</b>	0.022
				Red	IP 66	<b>ZB5 AA9234</b>	0.027
				White	IP 40	<b>ZB5 AA8212</b>	0.022
				Black	IP 66	<b>ZB5 AA9212</b>	0.027
	1 flush push (marked "I") 1 projecting push (marked "O")			Green	IP 40	<b>ZB5 AL8434</b>	0.021
				Red	IP 66	<b>ZB5 AL9434</b>	0.026
				White	IP 40	<b>ZB5 AL8412</b>	0.021
				Black	IP 66	<b>ZB5 AL9412</b>	0.026

## Double-headed pushbuttons with integral LED (IP 40) (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact		Supply voltage	Colour of pushes	Reference	Weight
							kg
		N/O	N/C	V			

### Complete units, (1)

	1 flush green push (marked "I") 1 orange pilot light 1 projecting red push (marked "O")	1	1	~ 24 50/60 Hz	Green Red	<b>XB5 AW84B5</b> (ZB5 AW0B55 + ZB5 AW843743)	0.060
				~ 110...120 50/60 Hz	Green Red	<b>XB5 AW84G5</b> (ZB5 AW0G55 + ZB5 AW843743)	0.060
				~ 230...240 50/60 Hz	Green Red	<b>XB5 AW84M5</b> (ZB5 AW0M55 + ZB5 AW843743)	0.060

### Heads only (3)

	1 flush push (marked "I") 1 clear central pilot light (4) 1 flush push (marked "O")				Black	<b>ZB5 AW822743</b>	0.022
					Red		
					Green	<b>ZB5 AW823743</b>	0.022
					Red		
					White	<b>ZB5 AW821723</b>	0.021
					Black		
	1 flush push (marked "I") 1 clear central pilot light (4) 1 projecting push (marked "O")				Black	<b>ZB5 AW842743</b>	0.021
					Red		
					Green	<b>ZB5 AW843743</b>	0.021
					Red		
					White	<b>ZB5 AW841723</b>	0.021
					Black		

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) For IP 66 degree of protection or NEMA type 4, fit a clear sealing boot **ZBW 008**, see page 1/180.

(3) Only for use with bodies comprising a light source with integral LED.

(4) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body sub-assembly.



Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see page 1/182

Control and signalling units Ø 22  
Harmony® XB5, plastic  
Mushroom head pushbuttons, spring return

1



XB5 AC21



ZB5 AC24







ZB5 AC2



ZB5 AR4



ZB5 AR216

Mushroom head pushbuttons <sup>(1) (2)</sup>						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Shape of head	Type of push	Type of contact		Push Ø (mm)	Colour	Reference
		 N/O	 N/C			
Complete units						
	Mushroom head	1	–	40	Black	<b>XB5 AC21</b> (ZB5 AZ101 + ZB5 AC2)
Heads only						
	Mushroom head			30	Black	<b>ZB5 AC24</b>
					Green	<b>ZB5 AC34</b>
					Red	<b>ZB5 AC44</b>
					Yellow	<b>ZB5 AC54</b>
					Blue	<b>ZB5 AC64</b>
				40	Black	<b>ZB5 AC2</b>
					Green	<b>ZB5 AC3</b>
					Red	<b>ZB5 AC4</b>
					Yellow	<b>ZB5 AC5</b>
					Blue	<b>ZB5 AC6</b>
				60	Black	<b>ZB5 AR2</b>
					Green	<b>ZB5 AR3</b>
					Red	<b>ZB5 AR4</b>
					Yellow	<b>ZB5 AR5</b>
					Blue	<b>ZB5 AR6</b>
				60 (3)	Black	<b>ZB5 AR216</b>
				Hemispherical	Green	<b>ZB5 AR316</b>
					Red	<b>ZB5 AR416</b>
					Yellow	<b>ZB5 AR516</b>
					Blue	<b>ZB5 AR616</b>

(1) These pushbuttons and heads cannot be used for an Emergency Stop function.  
Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head: 6.

Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see page 1/182

## Control and signalling units Ø 22

Harmony® XB5, plastic


Mushroom head pushbuttons, latching

1

## Mushroom head pushbuttons (1) (2)

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
<b>Heads only</b>					
 ZB5 AT2	Push-pull	30	Black	ZB5 AT24	0.044
		40	Black	ZB5 AT2	0.049
		60	Black	ZB5 AX2	0.067
 ZB5 AS62	Turn to release	30	Black	ZB5 AS42	0.040
		40	Black	ZB5 AS52	0.044
		40	Yellow	ZB5 AS55	0.044
		60	Black	ZB5 AS62	0.064
 ZB5 AS72	Key release (key n° 455) (2 keys included with head) (3)  (5)	30	Black	ZB5 AS72	0.040
		40	Black	ZB5 AS12 (4)	0.044
		60	Black	ZB5 AS22	0.064

## Illuminated mushroom head pushbuttons (2)

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
<b>Heads only (6)</b>					
 ZB5 AW733	Turn to release	40	White	ZB5 AW713	0.022
			Green	ZB5 AW733	0.022
			Orange	ZB5 AW753	0.022
			Blue	ZB5 AW763	0.022

(1) These pushbuttons and heads cannot be used for an Emergency Stop function.

Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(3) For specific keys with other numbers, please consult your Regional Sales Office.

(4) Other key numbers:


- key n° 421E: add suffix **12** to the reference.

- key n° 458A: add suffix **10** to the reference.

- key n° 520E: add suffix **14** to the reference.

- key n° 3131A: add suffix **20** to the reference.

Example: To order a Ø 40 black mushroom head for a latching pushbutton, with release by key n° 421E, the reference becomes: **ZB5 AS1212**.

(5) The symbol  indicates key withdrawal position(s).

(6) Only for use with bodies comprising a light source with integral LED.



Assembly of other products using:  
body/contact assemblies: see page 1/166 combined  
sub-assemblies: see page 1/170  
accessories: see pages 1/187 and 1/188

# Control and signalling units Ø 22

Harmony® XB5, plastic

Emergency stop devices

Conforming to EN/IEC 60204-1 and



EN/ISO 13850: 2006 and Machinery Directive 98/37/EC

1





Mushroom head Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

## Emergency stop trigger action and mechanical latching pushbuttons <sup>(1) (2)</sup>





Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Type of contact	Push Ø (mm)	Colour	Reference	Weight kg
		 N/O				
		 N/C				

### Complete units

	Push-pull	1	1	40	Red	<b>XB5 AT845</b> (ZB5 AZ105 + ZB5 AT84)	0.076
	Turn to release	1	1	40	Red	<b>XB5 AS8445</b> (ZB5 AZ105 + ZB5 AS844)	0.072
		—	2	40	Red	<b>XB5 AS8444</b> (ZB5 AZ104 + ZB5 AS844)	0.072
	Key release (key n° 455)  (3)	1	1	40	Red	<b>XB5 AS9445</b> (ZB5 AZ105 + ZB5 AS944)	0.112

### Heads only

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
	Push-pull	30	Red	<b>ZB5 AT844 ▲</b>	0.050
		40	Red	<b>ZB5 AT84</b>	0.050
		60	Red	<b>ZB5 AX84</b>	0.050
	Turn to release	30	Red	<b>ZB5 AS834</b>	0.042
		40	Red	<b>ZB5 AS844</b>	0.046
	Key release (key n° 455) 2 keys included with head (5)  (3)	30	Red	<b>ZB5 AS934</b>	0.068
		40	Red	<b>ZB5 AS944 (4)</b>	0.071
		60	Red	<b>ZB5 AS934</b>	0.092
	Key release (key n° 4A185) (5)	40	Red	<b>ZB5 AS944D</b>	0.071


### Bellows for harsh environments (IP 69K)

For use in	Material	Colour	Sold in lots of	Unit reference	Weight kg
Environments subject to humidity, dust, high pressure cleaning, etc.	Silicone	Red	2	<b>ZBZ 48</b>	0.009
	EPDM	Black	2	<b>ZBZ 28</b>	0.009
		Yellow	2	<b>ZBZ 58</b>	0.009

## Emergency stop trigger action and mechanical latching pushbuttons with mechanical state indicator <sup>(1)</sup>


For elevator inspection box applications

### Heads only <sup>(7)</sup>

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
	Push-pull (6)	40	Red	<b>ZB5 AT8643M</b>	0.034

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.
- key n° 458A: add suffix **10** to the reference.
- key n° 520E: add suffix **14** to the reference.
- key n° 3131A: add suffix **20** to the reference.
- key n° 4A185: add suffix **D** to the reference.

Example: To order a Ø 40 red mushroom head for a trigger action and mechanical latching Emergency Stop pushbutton, with release by key n° 421E, the reference becomes: **ZB5 AS94412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

(6) Cannot be used with metal guards ZBZ 160●.

(7) Only for use with bodies comprising a light source with integral LED.



XB5 AT845



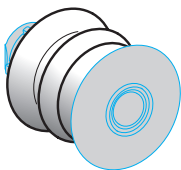
XB5 AS8445



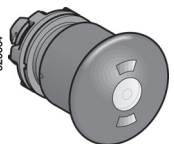
XB5 AS9445



ZB5 AS844



ZBZ 48



ZB5 AT8643M

▲ Available:  
2<sup>nd</sup> quarter 2008.

Assembly of other products using:  
body/contact assemblies: see page 1/166  
combined sub-assemblies: see page 1/170  
accessories: see pages 1/187 and 1/188

# Control and signalling units Ø 22

Harmony® XB5, plastic










Emergency switching off devices

Conforming to IEC 60364-5-53

Mushroom head switching off mechanical latching pushbuttons conform to standards IEC 60364-5-53 and EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.


## Emergency switching off, mechanical latching pushbuttons <sup>(1)</sup> <sup>(2)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Type of contact		Push Ø mm	Colour	Reference	Weight kg
							
		N/O	N/C				
<b>Complete units</b>							
	Push-pull	—	1	40	Red	<b>XB5 AT42</b> (ZB5 AZ102 + ZB5 AT4)	0.065
	Turn to release	—	1	40	Red	<b>XB5 AS542</b> (ZB5 AZ102 + ZB5 AS54)	0.060
	Key release (key n° 455)  (3)	—	1	40	Red	<b>XB5 AS142</b> (ZB5 AZ102 + ZB5 AS14)	0.075
<b>Heads only</b>							
	Push-pull			30	Red	<b>ZB5 AT44 ▲</b>	0.049
				40	Red	<b>ZB5 AT4</b>	0.049
				60	Red	<b>ZB5 AX4</b>	0.067
	Turn to release			30	Red	<b>ZB5 AS44</b>	0.040
				40	Red	<b>ZB5 AS54</b>	0.044
				60	Red	<b>ZB5 AS64</b>	0.064
	Key release (key n° 455) 2 keys included with head (5)  (3)			30	Red	<b>ZB5 AS74</b>	0.040
				40	Red	<b>ZB5 AS14 (4)</b>	0.044
				60	Red	<b>ZB5 AS24</b>	0.060
	Key release (key n° 4A185)			40	Red	<b>ZB5 AS14D</b>	0.044

## Illuminated Emergency switching off, mechanical latching pushbuttons <sup>(1)</sup>


Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
<b>Heads only <sup>(6)</sup></b>					
	Turn to release	40	Red	<b>ZB5 AW743</b>	0.022



(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.

- key n° 458A: add suffix **10** to the reference.

- key n° 520E: add suffix **14** to the reference.

- key n° 3131A: add suffix **20** to the reference.

Example: To order a Ø 40 red mushroom head for a trigger action and mechanical latching Emergency Stop pushbutton, with release by key n° 421E, the reference becomes: **ZB5 AS1412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

(6) Only for use with bodies comprising a light source with integral LED.

▲ Available:  
2<sup>nd</sup> quarter 2008.





Assembly of other products using:  
body/contact assemblies: see page 1/166  
combined sub-assemblies: see page 1/170  
accessories: see page 1/182

1




ZB5 AH04





Pushbuttons with flush push <sup>(1)</sup>

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only, circular				
	Without cap (2)	–	ZB5 AH0	0.018
	Flush	White	ZB5 AH01	0.018
		Black	ZB5 AH02	0.018
		Green	ZB5 AH03	0.018
		Red	ZB5 AH04	0.018
		Yellow	ZB5 AH05	0.018
		Blue	ZB5 AH06	0.018
Heads only, square				
	Without cap (2)	–	ZB5 CH0	0.020
	Flush	White	ZB5 CH01	0.020
		Black	ZB5 CH02	0.020
		Green	ZB5 CH03	0.020
		Red	ZB5 CH04	0.020
		Yellow	ZB5 CH05	0.020
		Blue	ZB5 CH06	0.020

Pushbuttons with projecting push <sup>(1)</sup>

Shape of head	Type of push	Colour of push	Reference	Weight kg
<b>Heads only, circular</b>				
	Projecting	White	ZB5 AH1	0.018
		Black	ZB5 AH2	0.018
		Green	ZB5 AH3	0.018
		Red	ZB5 AH4	0.018
		Yellow	ZB5 AH5	0.018
		Blue	ZB5 AH6	0.018



Illuminated pushbuttons with flush push <sup>(1)</sup>

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only, circular (3)				
 	Flush	White	ZB5 AH013	0.017
		Green	ZB5 AH033	0.017
		Red	ZB5 AH043	0.017
		Orange	ZB5 AH053	0.017
		Blue	ZB5 AH063	0.017
Heads only, square (3)				
 	Flush	White	ZB5 CH313	0.018
		Green	ZB5 CH333	0.018
		Red	ZB5 CH343	0.018
		Orange	ZB5 CH353	0.018
		Blue	ZB5 CH363	0.018



ZB5 CH343

Illuminated pushbuttons with projecting push <sup>(1)</sup>

Shape of head	Type of push	Colour of push	Reference	Weight kg
<b>Heads only, circular <sup>(3)</sup></b>				
	Projecting	White	ZB5 AH13	0.017
		Green	ZB5 AH33	0.017
		Red	ZB5 AH43	0.017
		Orange	ZB5 AH53	0.017
		Blue	ZB5 AH63	0.017


<sup>(1)</sup> Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

<sup>(2)</sup> Caps to be ordered separately, see page 1/178.

<sup>(3)</sup> Only for use with bodies comprising a light source with integral LED.




ZB5 AFDA

Pushbuttons with key-operated push <sup>(1)</sup>					
Shape of head	Type of push	Locking	Key withdrawal	Reference	Weight kg
Heads only					
	Key n° 4A185	Both positions	Both positions	ZB5 AFDA	0.050
		Actuated position	Actuated position	ZB5 AFDB	0.050
		Rest position	Rest position	ZB5 AFDC	0.050
		Actuated position	Both positions	ZB5 AFDD	0.050
	Key LU1	Both positions	Both positions	ZB5 AFDE01	0.050
	Key LU2	Both positions	Both positions	ZB5 AFDE02	0.050
	Key LU3	Both positions	Both positions	ZB5 AFDE03	0.050
	Key LU4	Both positions	Both positions	ZB5 AFDE04	0.050
	Key LU5	Both positions	Both positions	ZB5 AFDE05	0.050
	Key LU6	Both positions	Both positions	ZB5 AFDE06	0.050
	Key LU7	Both positions	Both positions	ZB5 AFDE07	0.050
	Key LU8	Both positions	Both positions	ZB5 AFDE08	0.050
	Key LU9	Both positions	Both positions	ZB5 AFDE09	0.050
	Key LU10	Both positions	Both positions	ZB5 AFDE10	0.050
	Key LU11	Both positions	Both positions	ZB5 AFDE11	0.050
	Key LU12	Both positions	Both positions	ZB5 AFDE12	0.050
	Key LU13	Both positions	Both positions	ZB5 AFDE13	0.050
	Key LU14	Both positions	Both positions	ZB5 AFDE14	0.050
	Key LU15	Both positions	Both positions	ZB5 AFDE15	0.050



ZB5 AF

Pushbuttons with knurled push <sup>(1)</sup>				
Shape of head	Type of push	Marking	Reference	Weight kg
Heads only				
	Knurled without cap <sup>(2)</sup>	—	ZB5 AF	0.027
	Knurled with marked cap	† (white on black background)	ZB5 AF351	0.030



ZB5 AF351

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

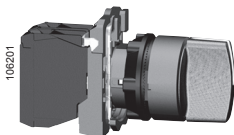
(2) Coloured caps to be ordered separately: see page 1/178.

Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see page 1/182

Control and signalling units Ø 22

Harmony® XB5, plastic  
Selector switches with standard handle

1





XB5 AD33









ZB5 AD2

Selector switches with standard handle (1)








Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact		Positions		Reference	Weight
				Number	Type		
		N/O	N/C				kg


Complete units

	Standard handle, black	1	–	2-position 90°	Stay put		<b>XB5 AD21</b> (ZB5 AZ101 + ZB5 AD2)	0.043
		1	–		Spring return from right to left		<b>XB5 AD41</b> (ZB5 AZ101 + ZB5 AD4)	0.046
		1	1		Stay put		<b>XB5 AD25</b> (ZB5 AZ105 + ZB5 AD2)	0.043
		2	–	3-position ± 45°	Stay put		<b>XB5 AD33</b> (ZB5 AZ103 + ZB5 AD3)	0.043
					Spring return to centre		<b>XB5 AD53</b> (ZB5 AZ103 + ZB5 AD5)	0.043

Heads only

	Standard handle, black			2-position 90°	Stay put		<b>ZB5 AD2</b>	0.017
					Spring return from right to left		<b>ZB5 AD4</b>	0.020
				3-position ± 45°	Stay put		<b>ZB5 AD3</b>	0.017
					Spring return to centre		<b>ZB5 AD5</b>	0.017
					Spring return from left to centre		<b>ZB5 AD7</b>	0.017
					Spring return from right to centre		<b>ZB5 AD8</b>	0.017

Heads only with other coloured handles

	Standard handle, white	add suffix <b>01</b> to the reference, example: <b>ZB5 AD201</b>
	Standard handle, green	add suffix <b>03</b> to the reference, example: <b>ZB5 AD203</b>
	Standard handle, red	add suffix <b>04</b> to the reference, example: <b>ZB5 AD204</b>
	Standard handle, yellow	add suffix <b>05</b> to the reference, example: <b>ZB5 AD205</b>
	Standard handle, blue	add suffix <b>06</b> to the reference, example: <b>ZB5 AD206</b>

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

# Control and signalling units Ø 22












Harmony® XB5, plastic

Selector switches with long handle

1

## Selector switches with long handle <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

ZB5 selector switch terminal connections (Schneider Electric and Legrand systems)							
Shape of head	Type of operator	Type of contact		Positions		Reference	Weight
		N/O	N/C	Number	Type		kg
Complete units							
	Long handle, black	1	—	2-position 90°	Stay put	 <b>XB5 AJ21</b> (ZB5 AZ101 + ZB5 AJ2)	0.043
		2	—	3-position ± 45°	Stay put	 <b>XB5 AJ33</b> (ZB5 AZ103 + ZB5 AJ3)	0.043
					Spring return to centre	 <b>XB5 AJ53</b> (ZB5 AZ103 + ZB5 AJ5)	0.043
Heads only							
	Long handle, black			2-position 90°	Stay put	 <b>ZB5 AJ2</b>	0.017
					Spring return from right to left	 <b>ZB5 AJ4</b>	0.020
				3-position ± 45°	Stay put	 <b>ZB5 AJ3</b>	0.017
					Spring return to centre	 <b>ZB5 AJ5</b>	0.017
					Spring return from left to centre	 <b>ZB5 AJ7</b>	0.017
					Spring return from right to centre	 <b>ZB5 AJ8</b>	0.017



(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see page 1/182

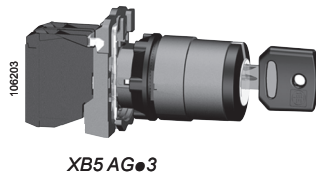
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Key switches <sup>(1)</sup>






## Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact		Positions		Reference	Weight
				Number	Type (2)		
		N/O	N/C				kg

## Complete units

















Key switch  
with key n° 455

1	—	2-position 90°	Stay put		<b>XB5 AG21</b> (ZB5 AZ101 + ZB5 AG2)	0.831
					<b>XB5 AG41</b> (ZB5 AZ101 + ZB5 AG4)	0.831
			Spring return to left		<b>XB5 AG61</b> (ZB5 AZ101 + ZB5 AG6)	0.870
2	—	3-position ± 45°	Stay put		<b>XB5 AG03</b> (ZB5 AZ103 + ZB5 AG0)	0.831
					<b>XB5 AG33</b> (ZB5 AZ103 + ZB5 AG3)	0.831


## Heads only



Key switch  
with key n° 455 (3) (4)

2-position 90°	Stay put		<b>ZB5 AG2</b>	0.057
			<b>ZB5 AG02</b>	0.057
			<b>ZB5 AG4</b>	0.057
	Spring return from right to left		<b>ZB5 AG6</b>	0.061
3-position ± 45°	Stay put		<b>ZB5 AG0</b>	0.057
			<b>ZB5 AG3</b>	0.057
			<b>ZB5 AG5</b>	0.057
			<b>ZB5 AG9</b>	0.057
			<b>ZB5 AG09</b>	0.057
	Spring return from left to centre		<b>ZB5 AG1</b>	0.057
	Spring return to centre		<b>ZB5 AG7</b>	0.057
	Spring return from right to centre		<b>ZB5 AG8</b>	0.057
			<b>ZB5 AG05</b>	0.057
			<b>ZB5 AG08</b>	0.057

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) The symbol  indicates key withdrawal position(s).

(3) Other key numbers:

- key n° 421E: add suffix **12** to the reference.
- key n° 458A: add suffix **10** to the reference.
- key n° 520E: add suffix **14** to the reference.
- key n° 3131A: add suffix **20** to the reference.

Example: For a switch head with key n° 421E, 2-position stay put with key withdrawal from the left-hand position, the reference becomes: **ZB5 AG212**.

(4) For specific keys with other numbers, please consult your Regional Sales Office.



# Control and signalling units Ø 22




















Harmony® XB5, plastic

Key switches with key 8D1








Selector switches with knurled knob - Toggle switches

## Key switches (continued) (1)







Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Positions (2)	Type	Reference	Weight kg
Number					
	Key switch with key n° 8D1	2-position 90°	Stay put	 <b>ZB5 AG2D</b>	0.057
				 <b>ZB5 AG02D</b>	0.057
				 <b>ZB5 AG4D</b>	0.057
		3-position ± 45°	Spring return from right to left	 <b>ZB5 AG6D</b>	0.061
				 <b>ZB5 AG0D</b>	0.057
				 <b>ZB5 AG3D</b>	0.057
			Stay put	 <b>ZB5 AG5D</b>	0.057
				 <b>ZB5 AG9D</b>	0.057
				 <b>ZB5 AG09D</b>	0.057
			Spring return from left to centre	 <b>ZB5 AG03D</b>	0.057
				 <b>ZB5 AG04D</b>	0.057
				 <b>ZB5 AG06D</b>	0.057
			Spring return from right to centre	 <b>ZB5 AG1D</b>	0.057
				 <b>ZB5 AG07D</b>	0.057
				 <b>ZB5 AG8D</b>	0.057
			Spring return to centre	 <b>ZB5 AG08D</b>	0.057
				 <b>ZB5 AG05D</b>	0.057
				 <b>ZB5 AG7D</b>	0.057


## Selector switches with knurled knob (1)

Shape of head	Type of operator	Positions (2)	Type	Reference	Weight kg
Number					
	Black knurled knob	2-position 90°	Stay put	 <b>ZB5 AD29</b>	0.020
			Spring return from right to left	 <b>ZB5 AD49</b>	0.024
		3-position ± 45°	Stay put	 <b>ZB5 AD39</b>	0.020
			Spring return to centre	 <b>ZB5 AD59</b>	0.020
			Spring return from left to centre	 <b>ZB5 AD79</b>	0.020
			Spring return from right to centre	 <b>ZB5 AD89</b>	0.020

## Toggle switches (1)

Shape of head	Type of operator	Positions (2)	Type	Reference	Weight kg
Number					
	Black lever	2-position 90°	Stay put	 <b>ZB5 AD28</b>	0.023
			Spring return	 <b>ZB5 AD48</b>	0.023
	White lever	2-position 90°	Stay put	 <b>ZB5 AD2801</b>	0.023
	Red lever	2-position 90°	Stay put	 <b>ZB5 AD2804</b>	0.023
	Blue lever	2-position 90°	Stay put	 <b>ZB5 AD2806</b>	0.023

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) The symbol  indicates key withdrawal position(s)



Assembly of other products using:  
combined sub-assemblies: see page 1/170  
accessories: see page 1/182

# Control and signalling units Ø 22





Harmony® XB5, plastic

Illuminated selector switches with standard handle,  
with integral LED

1

## Illuminated selector switches with standard handle, with integral LED <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact		Positions Number Type	Supply voltage	Colour of handle	Reference	Weight
								
		N/O	N/C		V			kg
Complete units								
  	Standard handle	1	1	2-position Stay put   90°	~ 24 (50/60 Hz)	Green	<b>XB5 AK123B5</b> (ZB5 AW0B35 + ZB5 AK1233)	0.516
					Red	<b>XB5 AK124B5</b> (ZB5 AW0B45 + ZB5 AK1243)	0.516	
					Orange	<b>XB5 AK125B5</b> (ZB5 AW0B55 + ZB5 AK1253)	0.516	
					~ 110...120 (50/60 Hz)	Green	<b>XB5 AK123G5</b> (ZB5 AW0G35 + ZB5 AK1233)	0.516
					Red	<b>XB5 AK124G5</b> (ZB5 AW0G45 + ZB5 AK1243)	0.516	
					Orange	<b>XB5 AK125G5</b> (ZB5 AW0G55 + ZB5 AK1253)	0.516	
					~ 230...240 (50/60 Hz)	Green	<b>XB5 AK123M5</b> (ZB5 AW0M35 + ZB5 AK1233)	0.516
					Red	<b>XB5 AK124M5</b> (ZB5 AW0M45 + ZB5 AK1243)	0.516	
					Orange	<b>XB5 AK125M5</b> (ZB5 AW0M55 + ZB5 AK1253)	0.516	
		1	1	3-position Stay put   ± 45°	~ 24 (50/60 Hz)	Green	<b>XB5 AK133B5</b> (ZB5 AW0B35 + ZB5 AK1333)	0.516
					Red	<b>XB5 AK134B5</b> (ZB5 AW0B45 + ZB5 AK1343)	0.516	
					Orange	<b>XB5 AK135B5</b> (ZB5 AW0B55 + ZB5 AK1353)	0.516	
					~ 110...120 (50/60 Hz)	Green	<b>XB5 AK133G5</b> (ZB5 AW0G35 + ZB5 AK1333)	0.516
					Red	<b>XB5 AK134G5</b> (ZB5 AW0G45 + ZB5 AK1343)	0.516	
					Orange	<b>XB5 AK135G5</b> (ZB5 AW0G55 + ZB5 AK1353)	0.516	
					~ 230...240 (50/60 Hz)	Green	<b>XB5 AK133M5</b> (ZB5 AW0M35 + ZB5 AK1333)	0.516
					Red	<b>XB5 AK134M5</b> (ZB5 AW0M45 + ZB5 AK1343)	0.516	
					Orange	<b>XB5 AK135M5</b> (ZB5 AW0M55 + ZB5 AK1353)	0.516	

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

Assembly of other products using:  
combined sub-assemblies: see page 1/170  
accessories: see page 1/182




























# Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated selector switches with standard handle,  
with integral LED

1

## Illuminated selector switches with standard handle, with integral LED (continued) (1)

Shape of head	Type of operator	Positions			Colour of handle	Reference	Weight kg
		Number	Type				
Heads only (2)							
                                                      							

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/138.

(2) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:  
light block sub-assemblies: see page 1/174  
accessories: see pages 1/178 and 1/182


1









XB5 AVB1

## Pilot lights with integral LED


Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Supply voltage V	Colour	Reference	Weight kg
<b>Complete units</b>				
■ With plain lens				
 <b>Protected LED</b>	~ 24 (50/60 Hz)	White	<b>XB5 AVB1</b> (ZB5 AVB1 + ZB5 AV013)	0.038
		Green	<b>XB5 AVB3</b> (ZB5 AVB3 + ZB5 AV033)	0.038
		Red	<b>XB5 AVB4</b> (ZB5 AVB4 + ZB5 AV043)	0.038
		Orange	<b>XB5 AVB5</b> (ZB5 AVB5 + ZB5 AV053)	0.038
		Blue	<b>XB5 AVB6</b> (ZB5 AVB6 + ZB5 AV063)	0.038
	~ 110...120 (50/60 Hz)	White	<b>XB5 AVG1</b> (ZB5 AVG1 + ZB5 AV013)	0.038
		Green	<b>XB5 AVG3</b> (ZB5 AVG3 + ZB5 AV033)	0.038
		Red	<b>XB5 AVG4</b> (ZB5 AVG4 + ZB5 AV043)	0.038
		Orange	<b>XB5 AVG5</b> (ZB5 AVG5 + ZB5 AV053)	0.038
		Blue	<b>XB5 AVG6</b> (ZB5 AVG6 + ZB5 AV063)	0.038
	~ 230...240 (50/60 Hz)	White	<b>XB5 AVM1</b> (ZB5 AVM1 + ZB5 AV013)	0.038
		Green	<b>XB5 AVM3</b> (ZB5 AVM3 + ZB5 AV033)	0.038
		Red	<b>XB5 AVM4</b> (ZB5 AVM4 + ZB5 AV043)	0.038
		Orange	<b>XB5 AVM5</b> (ZB5 AVM5 + ZB5 AV053)	0.038
		Blue	<b>XB5 AVM6</b> (ZB5 AVM6 + ZB5 AV063)	0.038

## Heads only, circular (1)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
■ With plain lens				
	Integral LED only 	White	<b>ZB5 AV013</b>	0.017
		Green	<b>ZB5 AV033</b>	0.017
		Red	<b>ZB5 AV043</b>	0.017
		Orange	<b>ZB5 AV053</b>	0.017
		Blue	<b>ZB5 AV063</b>	0.017
		5 colours (2) (3)	<b>ZB5 AV003</b>	0.017
■ With plain lens, for insertion of legend (3)				
	Integral LED only 	White	<b>ZB5 AV013E</b>	0.017
		Green	<b>ZB5 AV033E</b>	0.017
		Red	<b>ZB5 AV043E</b>	0.017
		Orange	<b>ZB5 AV053E</b>	0.017
		Blue	<b>ZB5 AV063E</b>	0.017
■ With grooved lens (4)				
	Integral LED only 	White	<b>ZB5 AV013S</b>	0.017
		Green	<b>ZB5 AV033S</b>	0.017
		Red	<b>ZB5 AV043S</b>	0.017
		Orange	<b>ZB5 AV053S</b>	0.017
		Blue	<b>ZB5 AV063S</b>	0.017

## Heads only, square (1)

■ With plain lens				
 <b>Protected LED</b>	Integral LED only	White	<b>ZB5 CV013</b>	0.020
		Green	<b>ZB5 CV033</b>	0.020
		Red	<b>ZB5 CV043</b>	0.020
		Orange	<b>ZB5 CV053</b>	0.020
		Blue	<b>ZB5 CV063</b>	0.020
		5 colours (2)	<b>ZB5 CV003</b>	0.028

(1) Only for use with bodies comprising a light source with integral LED.

(2) Head supplied with 5 different coloured lenses (white, green, red, orange, blue) not fitted, for insertion of legend.

(3) For legend ordering information: see page 1/182.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
light block sub-assemblies: see page 1/174  
accessories: see pages 1/178 and 1/182

# Control and signalling units Ø 22

Harmony® XB5, plastic

Pilot lights with BA 9s base fitting

1


## Pilot lights with BA 9s base fitting, with plain lens

Screw clamp terminal connections (Schneider Electric anti-retightening system)


Shape of head	Supply voltage V	Colour	Reference	Weight kg
---------------	---------------------	--------	-----------	--------------

### Complete units - With plain lens

■ Direct supply, for BA 9s bulb,  $U \leq 250$  V, 2.4 W max (bulb not included)

	≤ 250	White	<b>XB5 AV61</b> (ZB5 AV6 + ZB5 AV01)	0.037
		Green	<b>XB5 AV63</b> (ZB5 AV6 + ZB5 AV03)	0.037
		Red	<b>XB5 AV64</b> (ZB5 AV6 + ZB5 AV04)	0.037
		Orange	<b>XB5 AV65</b> (ZB5 AV6 + ZB5 AV05)	0.037


■ Via integral transformer, 1.2 VA, 6 V secondary, with BA 9s incandescent bulb (included)

	~ 110...120 - 50/60 Hz	White	<b>XB5 AV31</b> (ZB5 AV3 + ZB5 AV01)	0.109
		Green	<b>XB5 AV33</b> (ZB5 AV3 + ZB5 AV03)	0.109
		Red	<b>XB5 AV34</b> (ZB5 AV3 + ZB5 AV04)	0.109
		Orange	<b>XB5 AV35</b> (ZB5 AV3 + ZB5 AV05)	0.109
	~ 230 - 50 Hz ~ 220...240 - 60 Hz	White	<b>XB5 AV41</b> (ZB5 AV4 + ZB5 AV01)	0.110
		Green	<b>XB5 AV43</b> (ZB5 AV4 + ZB5 AV03)	0.110
		Red	<b>XB5 AV44</b> (ZB5 AV4 + ZB5 AV04)	0.110
		Orange	<b>XB5 AV45</b> (ZB5 AV4 + ZB5 AV05)	0.110


### Heads only (1)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
---------------	---	----------------	-----------	--------------

■ With plain lens

	With BA 9s base fitting	White	<b>ZB5 AV01</b>	0.018
		Green	<b>ZB5 AV03</b>	0.018
		Red	<b>ZB5 AV04</b>	0.018
		Orange	<b>ZB5 AV05</b>	0.018
		Blue	<b>ZB5 AV06</b>	0.018
		Clear	<b>ZB5 AV07</b>	0.018

■ With grooved lens (2)

	With BA 9s base fitting	White	<b>ZB5 AV01S</b>	0.017
		Green	<b>ZB5 AV03S</b>	0.017
		Red	<b>ZB5 AV04S</b>	0.017
		Orange	<b>ZB5 AV05S</b>	0.017
		Blue	<b>ZB5 AV06S</b>	0.017
		Clear	<b>ZB5 AV07S</b>	0.017

(1) Only for use with bodies comprising a light source with BA 9s base fitting (incandescent, neon or LED).

(2) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
body/contact assemblies: see page 1/166  
accessories: see page 1/182

# Control and signalling units Ø 22

Harmony® XB5, plastic

Specific functions

Pushbuttons for manual overload reset, hour counters, buzzers, fuse carrier

1



XB5 AA

## Manual overload reset buttons (travel 10 mm)

Shape of head	Actuation distance mm	Marking	Colour	Reference	Weight kg
<b>Without cap (1)</b>					
	17...120	—	—	XB5 AA801	0.027
	120...257	—	—	XB5 AA802	0.040
<b>With flush push</b>					
	17...120	Without	Green	XB5 AA831	0.027
			Red	XB5 AA841	0.027
			Blue	XB5 AA861	0.027
		O	Red	XB5 AA84101	0.027
		R	Blue	XB5 AA86102	0.027
	120...257	Without	Green	XB5 AA832	0.040
			Red	XB5 AA842	0.040
			Blue	XB5 AA862	0.040
		O	Red	XB5 AA84201	0.040
		R	Blue	XB5 AA86202	0.040
<b>With projecting push</b>					
	17...120	O	Red	XB5 AL84101	0.027
	120...257	O	Red	XB5 AL84201	0.040



ZB5 AD

## Heads + mounting base for potentiometer (2)

Shape of head	Description	For use with	Reference	Weight kg
	For potentiometer with shaft length 45 to 50 mm	Ø 6 mm shaft	ZB5 AD912	0.032
		Ø 6.35 mm shaft	ZB5 AD922	0.032

## Hour counters

Characteristics	Supply voltage V	Reference	Weight kg
Indication 0...9999.9	~ 12...24 - 50/60 Hz	XB5 DSB	0.045
	~ 120 - 60 Hz	XB5 DSG	0.045
	~ 230...240 - 50 Hz	XB5 DSM	0.045



XB5 DS●



XB5 KS●

## Annunciators (IP 40 NEMA 1)

85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 1/202)	~ 24 - 50/60 Hz	XB5 KSB	0.035
	~ 120 - 50/60 Hz	XB5 KSG	0.035
	~ 230...240 - 50 Hz	XB5 KSM	0.035



XB5 DT1S

## Fuse carrier

Description	For use with	Reference	Weight kg
Fuse carrier	5 x 20 mm fuse 6.3 A - 250 V	XB5 DT1S	0.022

(1) Coloured cap to be ordered separately: see page 1/178.

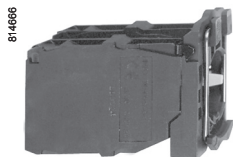
(2) Potentiometer not included.



XD5 PA12



ZD5 PA103



ZD5 PA203



ZD5 PA12

**Joystick controllers** (with 54 mm long operating shaft) (1)  
**Screw clamp terminal connections** (Schneider Electric anti-retightening system)

Description	Operation	Spring return to zero position	Reference	Weight kg
<b>Complete products</b>				
2-direction	1 notch 1 N/O contact per direction	Without	<b>XD5 PA12</b>	0.060
		With	<b>XD5 PA22</b>	0.060
4-direction	1 notch 1 N/O contact per direction	Without	<b>XD5 PA14</b>	0.077
		With	<b>XD5 PA24</b>	0.077

**Sub-assemblies for joystick controllers**

Sub-assemblies for joystick controllers			Reference	Weight kg
Description	For use with			
Complete body/contact assemblies	2-direction		ZD5 PA103	0.049
	4-direction		ZD5 PA203	0.058
Complete head assemblies with operating shaft	2-direction, stay put		ZD5 PA12	0.022
	2-direction, spring return to zero position		ZD5 PA22	0.022
	4-direction, stay put		ZD5 PA14	0.022
	4-direction, spring return to zero position		ZD5 PA24	0.022
Legends 30 x 48 mm for engraving	2-direction	Black one side Red reverse	ZBG 2201	0.001
		White one side Yellow reverse	ZBG 2401	0.001
Legends 48 x 48 mm for engraving	4-direction	Black one side Red reverse	ZBG 4201	0.002
		White one side Yellow reverse	ZBG 4401	0.002

(1) Must not be used with standard contact blocks ZBE 10● (single) or ZBE 20● (double).

**Other versions** Joystick controllers and complete body/contact assemblies for joystick controllers with Faston connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.

To combine with heads, see pages 1/140 to 1/164

1

814588



ZB5 AZ009

814265



ZBE 101

814267



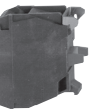
ZBE 203

814411



ZB5 AZ101

814265



ZBE 201

814667



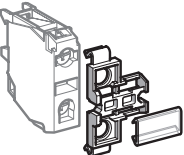
ZB5 AZ106

814667



ZB5 AZ107

814262



ZBZ 001

563527





XBY 2U







**Body/fixing collar**

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	ZB5 AZ009	0.006

**Contact functions (1)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)**Contacts for standard applications**

Description	Type of contact			Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	ZBE 101	0.011
		–	1	5	ZBE 102	0.011
	Double	2	–	5	ZBE 203	0.020
		–	2	5	ZBE 204	0.020
Single with body/fixing collar	Single	1	1	5	ZBE 205	0.020
		1	–	1	ZB5 AZ101	0.021
	Double	–	1	1	ZB5 AZ102	0.021
		2	–	1	ZB5 AZ103	0.030
	Triple	–	2	1	ZB5 AZ104	0.030
		1	1	1	ZB5 AZ105	0.030
		1	2	1	ZB5 AZ141	0.040

**Contacts for specific applications**

Application	Type of contact	Description			Sold in lots of	Unit reference	Weight kg
Low power switching	Single	Standard	1	–	5	ZBE 1016	0.012
			–	1	5	ZBE 1026	0.012
		Dusty environment (2) (IP5X, 50 µm dust)	1	–	5	ZBE 1016P	0.012
			–	1	5	ZBE 1026P	0.012
Staggered contacts	Single	Early make	1	–	5	ZBE 201	0.011
							
		Late break	–	1	5	ZBE 202	0.011
							
		Overlapping	1	1	5	ZB5 AZ106	0.030
							
		Staggered	–	2	5	ZB5 AZ107	0.030
							

**Clip-on legend holders for electrical blocks with screw clamp terminal connections**

For use with	Sold in lots of	Unit reference	Weight kg
Identification of an XB4 B control or signalling unit	10	ZBZ 001	0.001

**Sheet of 50 blank legends**

Legend holder ZBZ 001	10	ZBY 001	0.023
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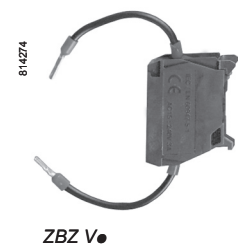
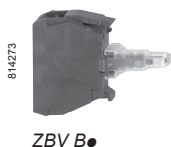
**“SIS Label” labelling software (for legends ZBY 001)**

For legend design for English, French, German, Italian, Spanish	1	XBY 2U	0.100
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- (1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 1/138.
- (2) It is not possible to fit an additional contact block on the back of these contact blocks.



To combine with:  
heads, see page 1/144



## Light blocks

## Screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED) <b>Protected LED</b>	~ 12 (50/60 Hz)	White	5	ZBV J1	0.017
		Green	5	ZBV J3	0.017
		Red	5	ZBV J4	0.017
		Orange	5	ZBV J5	0.017
		Blue	5	ZBV J6	0.017
	~ 24 (50/60 Hz)	White	5	ZBV B1	0.017
		Green	5	ZBV B3	0.017
		Red	5	ZBV B4	0.017
		Orange	5	ZBV B5	0.017
		Blue	5	ZBV B6	0.017
	~ 24...120 (50/60 Hz)	White	5	ZBV BG1	0.017
		Green	5	ZBV BG3	0.017
		Red	5	ZBV BG4	0.017
		Orange	5	ZBV BG5	0.017
		Blue	5	ZBV BG6	0.017
	~ 110...120 (50/60 Hz)	White	5	ZBV G1	0.017
		Green	5	ZBV G3	0.017
		Red	5	ZBV G4	0.017
		Orange	5	ZBV G5	0.017
		Blue	5	ZBV G6	0.017
	~ 230...240 (50/60 Hz)	White	5	ZBV M1	0.017
		Green	5	ZBV M3	0.017
		Red	5	ZBV M4	0.017
		Orange	5	ZBV M5	0.017
		Blue	5	ZBV M6	0.017

## Blocks for "test light" function

For use with	Supply voltage V	Description	Reference	Weight kg
Light blocks	~ 12 and 24 ~ 24...120	Single module, 1 connecting wire	ZBZ G156 (1)	0.010
Light blocks with integral LED	~ 48...230	Double module, with connecting wires	ZBZ M156 (2)	0.010

## LED suppressors

For use with	Supply voltage V	Level of protection	Reference	Weight kg
Light blocks with integral LED fitted with screw clamp terminal connections	~ 120	25...120 VA	ZBZ VG	0.010
	~ 230	30...230 VA	ZBZ VM	0.010

## Flashing light blocks

## Screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED) <b>Protected LED</b>	~ 24 (50/60 Hz)	White	5	ZBV 18B1	0.017
		Green	5	ZBV 18B3	0.017
		Red	5	ZBV 18B4	0.017
		Orange	5	ZBV 18B5	0.017
		Blue	5	ZBV 18B6	0.017
	~ 110...120 (50/60 Hz)	White	5	ZBV 18G1	0.017
		Green	5	ZBV 18G3	0.017
		Red	5	ZBV 18G4	0.017
		Orange	5	ZBV 18G5	0.017
		Blue	5	ZBV 18G6	0.017
	~ 230...240 (50/60 Hz)	White	5	ZBV 18M1	0.017
		Green	5	ZBV 18M3	0.017
		Red	5	ZBV 18M4	0.017
		Orange	5	ZBV 18M5	0.017
		Blue	5	ZBV 18M6	0.017

(1) Block for use with ~ light blocks with integral LED types ZBV J●, ZBV B●, ZBV BG● or with direct supply light block for BA 9s bulb, ZBV 6.

(2) Block for use ~ light blocks integral LED types ZBV G●, ZBV M●, see connection on page 1/200.



To combine with heads, see pages 1/140 to 1/164

1

814588



ZB5 AZ009

PF10777



ZBE 1015

PF107781





ZB5 AZ1015

**Body/fixing collar**

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	ZB5 AZ009	0.006

**Contact functions****Spring terminal connections (1)****Contacts for standard applications**

Description	Type of contact			Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	—	4	ZBE 1015	0.011
		—	1	4	ZBE 1025	0.011
	Single with body/fixing collar	1	—	1	ZB5 AZ1015	0.021
		—	1	1	ZB5 AZ1025	0.021
		2	—	1	ZB5 AZ1035	0.030
		—	2	1	ZB5 AZ1045	0.030

**Light blocks****Spring terminal connections (1)**

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	~ 12 (50/60 Hz)	White	4	ZBV J15	0.016
		Green	4	ZBV J35	0.016
		Red	4	ZBV J45	0.016
		Orange	4	ZBV J55	0.016
		Blue	4	ZBV J65	0.016
	~ 24 (50/60 Hz)	White	4	ZBV B15	0.016
		Green	4	ZBV B35	0.016
		Red	4	ZBV B45	0.016
		Orange	4	ZBV B55	0.016
		Blue	4	ZBV B65	0.016
	~ 110...120 (50/60 Hz)	White	4	ZBV G15	0.016
		Green	4	ZBV G35	0.016
		Red	4	ZBV G45	0.016
		Orange	4	ZBV G55	0.016
		Blue	4	ZBV G65	0.016
	~ 230...240 (50/60 Hz)	White	4	ZBV M15	0.016
		Green	4	ZBV M35	0.016
		Red	4	ZBV M45	0.016
		Orange	4	ZBV M55	0.016
		Blue	4	ZBV M65	0.016

**Sheet of 50 blank legends**

For use with	Sold in lots of	Unit reference	Weight kg
Legend holder ZBZ 001	10	ZBY 001	0.023

**“SIS Label” labelling software (for legends ZBY 001)**

For legend design		Unit reference	Weight kg
for English, French, German, Italian, Spanish	1	XBY 2U	0.038

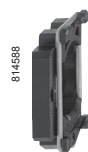
(1) It is not possible to fit an additional block on the back of these contact or light blocks.

563527

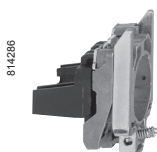


XBY 2U

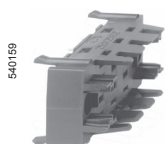
To combine with heads, see pages 1/140 to 1/164



ZB5 AZ009



ZB5 AZ079 + ZB5 AZ009



ZBZ 01●



ZBE 701



ZBE 702



ZBV B●7

### Body/fixing collar and accessories specifically for printed circuit board mounting <sup>(1)</sup>

#### Accessories required when using adaptor (socket) ZBZ 010



Description	For use with	Sold in lots of	Unit reference	Weight kg
Body/fixing collar	Electrical block (contact or light)	10	ZB5 AZ009	0.006
Fixing collar/pillar	Printed circuit board support (fixing screw ZBZ 006 to be ordered separately)	10	ZB5 AZ079	0.003
Fixing screw for printed circuit board	Fixing collar/pillar ZB5 AZ079	10	ZBZ 006	0.011

#### Adapter (socket) <sup>(1)</sup>



For use with	Thickness of printed circuit board (mm)	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	1.6 ± 0.2	10	ZBZ 010	0.008
	2.2 ± 0.2	10	ZBZ 011	0.008
	3.2 ± 0.2	10	ZBZ 012	0.008

### Contact functions <sup>(1)</sup>

#### Contacts for standard applications

Description	Type of contact			Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	—	5	ZBE 701	0.011
		—	1	5	ZBE 702	0.011

#### Contacts for specific applications

Application	Type of contact			Sold in lots of	Unit reference	Weight kg
Low power switching	Single	1	—	5	ZBE 1016	0.012
		—	1	5	ZBE 1026	0.012

### Light blocks <sup>(1)</sup>

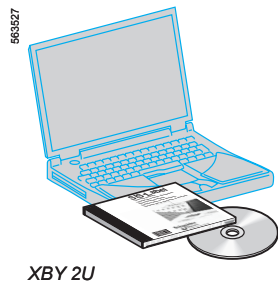
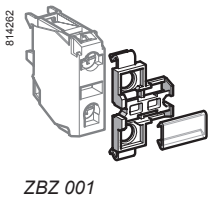
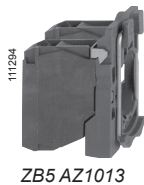
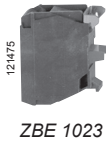
Description	Supply voltage V	Colour of LED	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	≈ 24 (50/60 Hz)	White	5	ZBV B17	0.004
		Green	5	ZBV B37	0.004
		Red	5	ZBV B47	0.004
		Orange	5	ZBV B57	0.004
		Blue	5	ZBV B67	0.004



Protected  
LED

<sup>(1)</sup> For details of support drilling and of printed circuit board: see page 1/203





To combine with heads, see pages 1/140 to 1/164

1

**Contact functions <sup>(1)</sup>****Faston connectors (6.35 or 2 x 2.8 mm)****Contacts for standard applications**

Description	Type of contact			Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	ZBE 1013	0.011
		–	1	5	ZBE 1023	0.011
	Double	2	–	5	ZBE 2033	0.020
		–	2	5	ZBE 2043	0.020
		1	1	5	ZBE 2053	0.020
Single with body/fixing collar		1	–	1	ZB5 AZ1013 <sup>(2)</sup>	0.021
		–	1	1	ZB5 AZ1023 <sup>(2)</sup>	0.021
		2	–	1	ZB5 AZ1033	0.030
		–	2	1	ZB5 AZ1043	0.030
		1	1	1	ZB5 AZ1053	0.030

**Contacts for specific applications**

Application	Type of contact	Description			Sold in lots of	Unit reference	Weight kg
Low power switching	Single	Standard	1	–	5	ZBE 10163 <sup>(2)</sup>	0.012
			–	1	5	ZBE 10263 <sup>(2)</sup>	0.012
		Dusty environments <sup>(3)</sup> (IP5X, 50 µm dust)	1	–	5	ZBE 1016P3 <sup>(2)</sup>	0.012
			–	1	5	ZBE 1026P3 <sup>(2)</sup>	0.012
Staggered contacts	Single	Early make 	1	–	5	ZBE 2013 <sup>(2)</sup>	0.011
		N/O					
		Late break 	–	1	5	ZBE 2023 <sup>(2)</sup>	0.011
		N/C					

**Clip-on legend holders for electrical blocks with screw clamp terminal connections**

For use with	Sold in lots of	Unit reference	Weight kg
Identification of an XB5 B control or signalling unit	10	ZBZ 001	0.001

**Sheet of 50 blank legends**

Legend holder ZBZ 001	10	ZBY 001	0.023
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**"SIS Label" labelling software (for legends ZBY 001)**

For legend design for English, French, German, Italian, Spanish	1	XBY 2U	0.100
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(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3.

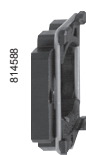
Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).

(2) To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9.

Example: ZBE 1013 becomes ZBE 1019.

(3) It is not possible to fit an additional contact block on the back of these contact blocks.

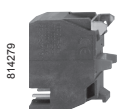
To combine with heads, see pages 1/140 to 1/164



ZB5 AZ009



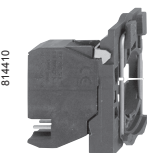
ZBE 1014



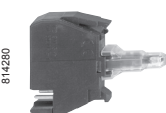
ZBE 1024



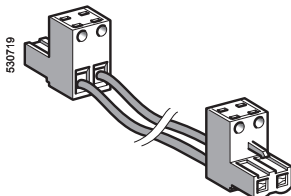
ZB5 AZ1014



ZB5 AZ1024



ZBV B•4





APE 1C2250

**Body/fixing collar**

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	6	ZB5 AZ009	0.006

**Contact functions****Plug-in connector (1)****Contacts for standard applications**

Description	Type of contact			Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	—	5	ZBE 1014	0.011
		—	1	5	ZBE 1024	0.011
	Single with body/fixing collar	1	—	1	ZB5 AZ1014	0.018
		—	1	1	ZB5 AZ1024	0.018
		2	—	1	ZB5 AZ1034	0.026
		—	2	1	ZB5 AZ1044	0.026
		1	1	1	ZB5 AZ1054	0.026
		1	2	1	ZB5 AZ1414	0.036

**Light blocks****Plug-in connector**

Description	Supply voltage (V)	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	≈ 24 (50/60 Hz)	White	5	ZBV B14	0.016
		Green	5	ZBV B34	0.016
		Red	5	ZBV B44	0.016
		Orange	5	ZBV B54	0.016
		Blue	5	ZBV B64	0.016
	~ 110...120 (50/60 Hz)	White	5	ZBV G14	0.016
		Green	5	ZBV G34	0.016
		Red	5	ZBV G44	0.016
		Orange	5	ZBV G54	0.016
		Blue	5	ZBV G64	0.016
	~ 230...240 (50/60 Hz)	White	5	ZBV M14	0.016
		Green	5	ZBV M34	0.016
		Red	5	ZBV M44	0.016
		Orange	5	ZBV M54	0.016
		Blue	5	ZBV M64	0.016

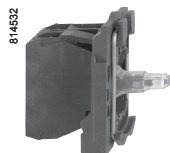
Protected  
LED**Connecting cables and connector**

Description	Number of connectors	Wire c.s.a. mm <sup>2</sup>	Length mm	Sold in lots of	Unit reference	Weight kg
Cables with connectors 2-pin, 5.08 mm pitch	1	0.75	500	8	APE 1C2150	0.120
	2	0.75	500	8	APE 1C2250	0.180
Spring terminal connector 2-pin, 5.08 mm pitch	—	0.2 to 2.5	—	10	APE 1PRE21	0.003

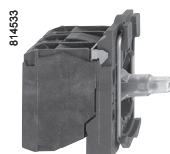
(1) It is not possible to fit an additional contact block on the back of these contact blocks.

To combine with:  
heads, see pages 1/145 to 1/161  
contacts, see page 1/166

1



ZB5 AW0●●1



ZB5 AW0●●3

Complete body/contact assemblies and light blocks <sup>(1)</sup>

Screw clamp terminal connections (Schneider Electric anti-retightening system)

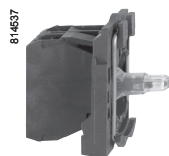
Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
	V					kg
		N/O	N/C			
<b>Direct supply</b>						
Integral LED 	~ 24 (50/60 Hz)	1	—	White	ZB5 AW0B11	0.032
				Green	ZB5 AW0B31	0.032
				Red	ZB5 AW0B41	0.032
				Orange	ZB5 AW0B51	0.032
				Blue	ZB5 AW0B61	0.032
		—	1	White	ZB5 AW0B12	0.032
				Green	ZB5 AW0B32	0.032
				Red	ZB5 AW0B42	0.032
				Orange	ZB5 AW0B52	0.032
				Blue	ZB5 AW0B62	0.032
		2	—	White	ZB5 AW0B13	0.042
				Green	ZB5 AW0B33	0.042
				Red	ZB5 AW0B43	0.042
				Orange	ZB5 AW0B53	0.042
				Blue	ZB5 AW0B63	0.042
		1	1	White	ZB5 AW0B15	0.042
				Green	ZB5 AW0B35	0.042
				Red	ZB5 AW0B45	0.042
				Orange	ZB5 AW0B55	0.042
				Blue	ZB5 AW0B65	0.042
	~ 110...120 (50/60 Hz)	1	—	White	ZB5 AW0G11	0.032
				Green	ZB5 AW0G31	0.032
				Red	ZB5 AW0G41	0.032
				Orange	ZB5 AW0G51	0.032
				Blue	ZB5 AW0G61	0.032
		—	1	White	ZB5 AW0G12	0.032
				Green	ZB5 AW0G32	0.032
				Red	ZB5 AW0G42	0.032
				Orange	ZB5 AW0G52	0.032
				Blue	ZB5 AW0G62	0.032
		2	—	White	ZB5 AW0G13	0.042
				Green	ZB5 AW0G33	0.042
				Red	ZB5 AW0G43	0.042
				Orange	ZB5 AW0G53	0.042
				Blue	ZB5 AW0G63	0.042
		1	1	White	ZB5 AW0G15	0.042
				Green	ZB5 AW0G35	0.042
				Red	ZB5 AW0G45	0.042
				Orange	ZB5 AW0G55	0.042
				Blue	ZB5 AW0G65	0.042

(1) Can be fitted with additional contact blocks: see page 1/166.

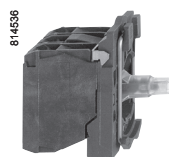
## Other versions

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.



To combine with:  
heads, see pages 1/145 to 1/161  
contacts, see page 1/166



ZB5 AW0...1



ZB5 AW0...3

Complete body/contact assemblies and light blocks (1) (continued)						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
	V					kg
Direct supply (continued)						
<div>Protected LED</div> <div>Integral LED</div> <div>~ 230...240 (50/60 Hz)</div>	1	–	White	ZB5 AW0M11	0.032	
			Green	ZB5 AW0M31	0.032	
			Red	ZB5 AW0M41	0.032	
			Orange	ZB5 AW0M51	0.032	
			Blue	ZB5 AW0M61	0.032	
		1	White	ZB5 AW0M12	0.032	
			Green	ZB5 AW0M32	0.032	
			Red	ZB5 AW0M42	0.032	
			Orange	ZB5 AW0M52	0.032	
			Blue	ZB5 AW0M62	0.032	
	2	–	White	ZB5 AW0M13	0.042	
			Green	ZB5 AW0M33	0.042	
			Red	ZB5 AW0M43	0.042	
			Orange	ZB5 AW0M53	0.042	
			Blue	ZB5 AW0M63	0.042	
		1	White	ZB5 AW0M15	0.042	
			Green	ZB5 AW0M35	0.042	
			Red	ZB5 AW0M45	0.042	
			Orange	ZB5 AW0M55	0.042	
			Blue	ZB5 AW0M65	0.042	

(1) Can be fitted with additional contact blocks: see page 1/166.

#### Other versions

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

To combine with:  
heads, see page 1/162  
contacts, see page 1/166

1



ZB5 AV●●

Complete light bodies (fixing collar + light block with integral LED) Screw clamp terminal connections (Schneider Electric anti-retightening system)				
Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED <b>protected LED</b>	~ 12 (50/60 Hz)	White	ZB5 AVJ1	0.022
		Green	ZB5 AVJ3	0.022
		Red	ZB5 AVJ4	0.022
		Orange	ZB5 AVJ5	0.022
		Blue	ZB5 AVJ6	0.022
	~ 24 (1) (50/60 Hz)	White	ZB5 AVB1	0.022
		Green	ZB5 AVB3	0.022
		Red	ZB5 AVB4	0.022
		Orange	ZB5 AVB5	0.022
		Blue	ZB5 AVB6	0.022
	~ 24...120 (50/60 Hz)	White	ZB5 AVBG1	0.022
		Green	ZB5 AVBG3	0.022
		Red	ZB5 AVBG4	0.022
		Orange	ZB5 AVBG5	0.022
		Blue	ZB5 AVBG6	0.022
	~ 110...120 (1) (50/60 Hz)	White	ZB5 AVG1	0.022
		Green	ZB5 AVG3	0.022
		Red	ZB5 AVG4	0.022
		Orange	ZB5 AVG5	0.022
		Blue	ZB5 AVG6	0.022
	~ 230...240 (1) (50/60 Hz)	White	ZB5 AVM1	0.022
		Green	ZB5 AVM3	0.022
		Red	ZB5 AVM4	0.022
		Orange	ZB5 AVM5	0.022
		Blue	ZB5 AVM6	0.022

(1) Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 1/167.

To combine with:  
heads, see page 1/162  
contacts, see page 1/166



ZB5 AVB156

## Complete light bodies with 3-terminal "test" function

(fixing collar + light block with integral LED + pre-wired block for "test light" function)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	$\sim$ 24 (1) (50/60 Hz)	White	ZB5 AVB1156	0.022
		Green	ZB5 AVB3156	0.022
		Red	ZB5 AVB4156	0.022
		Orange	ZB5 AVB5156	0.022
		Blue	ZB5 AVB6156	0.022

## Complete bodies with flashing pilot light (fixing collar + light block with integral LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	$\sim$ 24 (50/60 Hz)	White	ZB5 AV18B1	0.022
		Green	ZB5 AV18B3	0.022
		Red	ZB5 AV18B4	0.022
		Orange	ZB5 AV18B5	0.022
		Blue	ZB5 AV18B6	0.022
	$\sim$ 110...120 (50/60 Hz)	White	ZB5 AV18G1	0.022
		Green	ZB5 AV18G3	0.022
		Red	ZB5 AV18G4	0.022
		Orange	ZB5 AV18G5	0.022
		Blue	ZB5 AV18G6	0.022
	$\sim$ 230...240 (50/60 Hz)	White	ZB5 AV18M1	0.022
		Green	ZB5 AV18M3	0.022
		Red	ZB5 AV18M4	0.022
		Orange	ZB5 AV18M5	0.022
		Blue	ZB5 AV18M6	0.022

(1) For a  $\sim$  120 or 230 V supply, use complete body ZB5 AVG1 or ZB5 AVM1 with block for "test light" function type ZBZ M156, see page 1/167.





To combine with:  
heads, see page 1/144 to 1/159  
contacts, see page 1/166

1



ZB5 AW065

**Complete body/contact assemblies and light blocks <sup>(1)</sup>****For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections (Schneider Electric anti-retightening system)**

Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight	
		 N/O	 N/C				
	V					kg	
Direct supply							
BA 9s base fitting bulb, 2.4 W max., not included (2)	≤ 250	1	–	–	ZB5 AW061	0.031	
		–	1	–	ZB5 AW062	0.031	
		2	–	–	ZB5 AW063	0.041	
		1	1	–	ZB5 AW065	0.041	
Supply via integral transformer (1.2 VA, 6 V secondary)							
Incandescent BA 9s base fitting bulb, included	~ 110...120 50/60 Hz	1	–	–	ZB5 AW031	0.110	
		1	1	–	ZB5 AW035	0.119	
	~ 230 50 Hz	1	–	–	ZB5 AW041	0.110	
		1	1	–	ZB5 AW045	0.119	
	~ 220...240 60 Hz	1	–	–	ZB5 AW051	0.110	
		1	1	–	ZB5 AW055	0.119	
	BA9s base fitting LED, included	~ 110...120 50/60 Hz	1	1	White	ZB5 AW03D15	0.119
					Green	ZB5 AW03D35	0.119
					Red	ZB5 AW03D45	0.119
					Orange	ZB5 AW03D55	0.119
					Blue	ZB5 AW03D65	0.119
		~ 230 50 Hz	1	1	White	ZB5 AW04D15	0.119
Green					ZB5 AW04D35	0.119	
Red					ZB5 AW04D45	0.119	
Orange					ZB5 AW04D55	0.119	
Blue					ZB5 AW04D65	0.119	
~ 220...240 60 Hz	1	1	White	ZB5 AW05D15	0.120		
			Green	ZB5 AW05D35	0.120		
			Red	ZB5 AW05D45	0.120		
			Orange	ZB5 AW05D55	0.120		
			Blue	ZB5 AW05D65	0.120		

(1) Can be fitted with additional contact blocks: see page 1/166.

(2) Bulb to be ordered separately: see page 1/190.

**Other versions**

Complete bodies with integral transformer incorporating Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your Regional Sales Office.

To combine with:  
heads, see page 1/167  
contacts, see page 1/166

**Light blocks****Screw clamp terminal connections** (Schneider Electric anti-retightening system)

Description	Supply voltage V	Sold in lots of	Unit reference	Weight kg
Direct supply for BA 9s base fitting bulb, 2.4 W max., not included (1)	≤ 250	5	ZBV 6	0.016

**Complete light bodies** (fixing collar + light block)**For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
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**Direct supply**

BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB5 AV6	0.022
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**Supply via integral transformer (1.2 VA, 6 V secondary)**

BA 9s base fitting incandescent bulb, included	~ 110...120 - 50/60 Hz	–	ZB5 AV3	0.099
	~ 230 - 50 Hz	–	ZB5 AV4	0.099
	~ 220...240 - 60 Hz	–	ZB5 AV5	0.099
	~ 400 - 50 Hz	–	ZB5 AV8	0.099
	~ 440...480 - 60 Hz	–	ZB5 AV9	0.099

BA 9s base fitting LED, included	~ 110...120 - 50/60 Hz	White	ZB5 AV3D1	0.102
		Green	ZB5 AV3D3	0.102
		Red	ZB5 AV3D4	0.102
		Orange	ZB5 AV3D5	0.102
		Blue	ZB5 AV3D6	0.102

	~ 230 - 50 Hz ~ 220...240 - 60 Hz	White	ZB5 AV4D1	0.102
		Green	ZB5 AV4D3	0.102
		Red	ZB5 AV4D4	0.102
		Orange	ZB5 AV4D5	0.102
		Blue	ZB5 AV4D6	0.102

	~ 400 - 50/60 Hz	White	ZB5 AV5D1	0.102
		Green	ZB5 AV5D3	0.102
		Red	ZB5 AV5D4	0.102
		Orange	ZB5 AV5D5	0.102
		Blue	ZB5 AV5D6	0.102

**Complete light bodies with 3-terminal “test” function** (fixing collar + light block)**For bulb with BA 9s base fitting (incandescent, neon or LED)****Screw clamp terminal connections** (Schneider Electric anti-retightening system)**Direct supply**

BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB5 AV156	0.021
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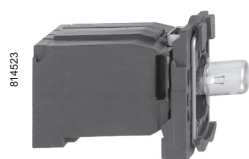
(1) Bulb to be ordered separately, see page 1/190.

**Other versions**

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 1/167.



ZB5 AV6



ZB5 AV3



ZB5 AV156

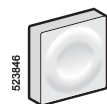
1



ZBA ●



ZBL ●



ZBC 1

## Pushbutton caps - unmarked

For use with	Type of push	Colour	Sold in lots of	Unit reference	Weight kg
ZB5 AA0 circular pushbutton heads supplied without cap	Flush	White	10	ZBA 1	0.001
		Black	10	ZBA 2	0.001
		Green	10	ZBA 3	0.001
		Red	10	ZBA 4	0.001
		Yellow	10	ZBA 5	0.001
		Blue	10	ZBA 6	0.001
		6 colours (1)	1	ZBA 9	0.006
	Projecting	White	10	ZBL 1	0.001
		Black	10	ZBL 2	0.001
		Green	10	ZBL 3	0.001
		Red	10	ZBL 4	0.001
		Yellow	10	ZBL 5	0.001
		Blue	10	ZBL 6	0.001
		6 colours (1)	1	ZBL 9	0.006
ZB5 CA0 circular pushbutton heads supplied without cap	Flush	White	10	ZBC 1	0.001
		Black	10	ZBC 2	0.001
		Green	10	ZBC 3	0.001
		Red	10	ZBC 4	0.001
		Yellow	10	ZBC 5	0.001
		Blue	10	ZBC 6	0.001

(1) Set of 6 different coloured caps: white, black, green, red, yellow, blue.



ZBA ●33

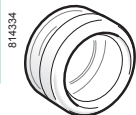
## Pushbutton caps - marked

For use with	Type of push	Marking Text	Colour	Colour of cap	Unit reference	Weight kg
ZB5 AA0 circular pushbutton heads supplied without cap (sold in lots of 10)	Flush	I (1)	White	Green	ZBA 331	0.001
			Black	White	ZBA 131	0.001
		II	White	Green	ZBA 336	0.001
			Black	White	ZBA 136	0.001
		III	White	Green	ZBA 337	0.001
			Black	White	ZBA 137	0.001
		IV	White	Green	ZBA 338	0.001
			Black	White	ZBL 138	0.001
		START (1)	White	Green	ZBA 333	0.001
			Black	White	ZBA 133	0.001
		ON	White	Green	ZBA 341	0.001
			Black	White	ZBA 141	0.001
		MARCHE	White	Green	ZBA 342	0.001
			Black	White	ZBA 142	0.001
		UP (1)	Black	White	ZBA 343	0.001
		DOWN (1)	White	Black	ZBA 344	0.001
		Ⓢ (1)	White	Black	ZBA 245	0.001
			Black	White	ZBA 145	0.001
		↑ (2)	White	Black	ZBA 335	0.001
			Black	White	ZBA 334	0.001
		O (1)	White	Red	ZBA 432	0.001
				Black	ZBA 232	0.001
		ARRET	White	Red	ZBA 433	0.001
				Black	ZBA 233	0.001
		STOP (1)	White	Red	ZBA 434	0.001
				Black	ZBA 234	0.001
		OFF	White	Red	ZBA 435	0.001
				Black	ZBA 235	0.001
		⚠ (1)	White	Green	ZBA 346	0.001
		R (1)	White	Blue	ZBA 639	0.001
		+	White	Black	ZBA 2934	0.001
		–	White	Black	ZBA 2935	0.001

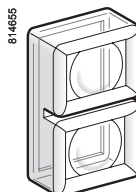
(1) Double injection moulded marking.

(2) Can be clipped-in at 90° steps, through 360°.

1



ZBP 0



ZBW 008

## Transparent boots for pushbuttons

Description	For use with pushbutton types	Sold in lots of	Unit reference	Weight kg
Single boots	Flush with circular head	10	ZBP A	0.002
	Projecting with circular head	10	ZBP 0	0.002
	Flush or projecting with circular head for food industry applications	10	ZBP 0A	0.002
Double boots	Flush or projecting double-headed	10	ZBW 008	0.005
	Flush double-headed	10	ZBW 008F	0.005
	Double-headed, for food industry applications	10	ZBW 008A	0.005

## Coloured boots

Description	Colour	Sold in lots of	Unit reference	Weight kg
Coloured boots (can be replaced without dismantling the head)	Black	10	ZB2 BP012	0.003
	Green	10	ZB2 BP013	0.003
	Red	10	ZB2 BP014	0.003
	Orange	10	ZB2 BP015	0.003
	Blue	10	ZB2 BP016	0.003



ZBV 01•3

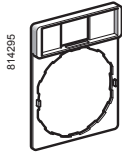


ZBV 01•

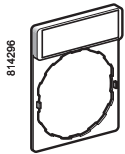
Lens caps				
For use with	Colour	Sold in lots of	Unit reference	Weight kg
<b>Circular lens caps for light sources with integral LED</b>				
Pilot lights	White	10	ZBV 0113	0.002
	Green	10	ZBV 0133	0.002
	Red	10	ZBV 0143	0.002
	Orange	10	ZBV 0153	0.002
	Blue	10	ZBV 0163	0.002
	5 different coloured grooved lenses (1)	1	ZBV 0103S	0.010
Illuminated pushbuttons, with flush push	White	10	ZBW 9113	0.002
	Green	10	ZBW 9133	0.002
	Red	10	ZBW 9143	0.002
	Orange	10	ZBW 9153	0.002
	Blue	10	ZBW 9163	0.002
Illuminated pushbuttons, with projecting push	White	10	ZBW 9313	0.002
	Green	10	ZBW 9333	0.002
	Red	10	ZBW 9343	0.002
	Orange	10	ZBW 9353	0.002
	Blue	10	ZBW 9363	0.002
<b>Square lens caps for light sources with integral LED</b>				
Pilot lights	White	10	ZBC V0113	0.002
	Green	10	ZBC V0133	0.002
	Red	10	ZBC V0143	0.002
	Orange	10	ZBC V0153	0.002
	Blue	10	ZBC V0163	0.002
Illuminated pushbuttons, with flush push	White	10	ZBC W9113	0.002
	Green	10	ZBC W9133	0.002
	Red	10	ZBC W9143	0.002
	Orange	10	ZBC W9153	0.002
	Blue	10	ZBC W9163	0.002
Illuminated pushbuttons, with projecting push	White	10	ZBC W9313	0.002
	Green	10	ZBC W9333	0.002
	Red	10	ZBC W9343	0.002
	Orange	10	ZBC W9353	0.002
	Blue	10	ZBC W9363	0.002
<b>Circular lens caps for light sources with BA 9s base fitting</b>				
Pilot lights	White	10	ZBV 011	0.002
	Green	10	ZBV 013	0.002
	Red	10	ZBV 014	0.002
	Orange	10	ZBV 015	0.002
	Blue	10	ZBV 016	0.002
	Clear	10	ZBV 017	0.002
Illuminated pushbuttons, with flush push	White	10	ZBW 911	0.002
	Green	10	ZBW 913	0.002
	Red	10	ZBW 914	0.002
	Orange	10	ZBW 915	0.002
	Blue	10	ZBW 916	0.002
	Clear	10	ZBW 917	0.002
Illuminated pushbuttons, with projecting push	White	10	ZBW 931	0.002
	Green	10	ZBW 933	0.002
	Red	10	ZBW 934	0.002
	Orange	10	ZBW 935	0.002
	Blue	10	ZBW 936	0.002
	Clear	10	ZBW 937	0.002

(1) Clear, green, red, orange, blue.

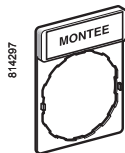
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ZBZ 32



ZBY 101



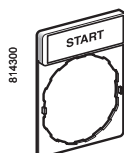
ZBY 2107

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends <sup>(1)</sup>

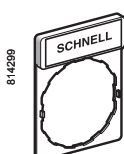
Description	Legend Colour	Marking	Sold in lots of	Unit reference	Weight kg
Without legend	–	–	10	ZBZ 32	0.001
With blank legend (for engraving)	Black or red background	–	10	ZBY 2101	0.002
	White or yellow background	–	10	ZBY 4101	0.002
With 8 x 27 mm legend (with International marking)	Black or red background	O (black background)	1	ZBY 2146	0.002
		O (red background)	1	ZBY 2931	0.002
		I	1	ZBY 2147	0.002
		II	1	ZBY 2148	0.002
		O-I	1	ZBY 2178	0.002
		I-II	1	ZBY 2179	0.002
		I-O-II	1	ZBY 2186	0.002
		AUTO	1	ZBY 2115	0.002
		STOP	1	ZBY 2304	0.002
With 8 x 27 mm legend (with French language marking)	Black or red background (2)	ARRET (red background)	1	ZBY 2104	0.002
		ARRET (black background)	1	ZBY 0104	0.002
		ARRET GENERAL	1	ZBY 2129	0.002
		ARRET REARMEMENT	1	ZBY 2133	0.002
		ARRET-MARCHE	1	ZBY 2166	0.002
		ARRIERE	1	ZBY 2106	0.002
		AUTO CYCLE-CYCLE	1	ZBY 2198	0.002
		AUTO CYCLE-MAIN	1	ZBY 2199	0.002
		AUTO-MAIN	1	ZBY 2164	0.002
		AUTO-O-MAIN	1	ZBY 2185	0.002
		AVANT	1	ZBY 2105	0.002
		AVANT-O-ARRIERE	1	ZBY 2184	0.002
		C-P-C-NORMAL	1	ZBY 2165	0.002
		CYCLE-MAIN	1	ZBY 2197	0.002
		DECLenchement	1	ZBY 2132	0.002
		DEFAULT (black background)	1	ZBY 2134	0.002
		DEFAULT (red background)	1	ZBY 2135	0.002
		DEPART CYCLE	1	ZBY 2195	0.002
		DESCENTE	1	ZBY 2108	0.002
		DROITE	1	ZBY 2109	0.002
		ENCLenchement	1	ZBY 2131	0.002
		EN SERVICE	1	ZBY 2111	0.002
		FERMETURE	1	ZBY 2114	0.002
		GAUCHE	1	ZBY 2110	0.002
		HORS SERVICE	1	ZBY 2112	0.002
		HORS-EN	1	ZBY 2167	0.002
		LENT	1	ZBY 2127	0.002
		MAIN	1	ZBY 2116	0.002
		MARCHE	1	ZBY 2103	0.002
		MONTEE	1	ZBY 2107	0.002
		OUVERTURE	1	ZBY 2113	0.002
		PHASE / PHASE	1	ZBY 2196	0.002
		REARMEMENT (red background)	1	ZBY 2123	0.002
		REARMEMENT (black background)	1	ZBY 0123	0.002
		SOUS TENSION	1	ZBY 2126	0.002
		VITE	1	ZBY 2128	0.002
	Yellow background	ARRET D'URGENCE	1	ZBY 2130	0.002

(1) For legends, see pages 1/184 to 1/186.

(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).



ZBY 2303



ZBY 2228

## Standard (30 x 40 mm) legend holders with 8 x 27 mm legends (continued)

Description	Legend	Marking	Reference	Weight kg
<b>With legend</b> (with English language marking)	Black or red background (1)	AUTO-HAND	ZBY 2364	0.002
		AUTO-O-HAND	ZBY 2385	0.002
		CLOSE	ZBY 2314	0.002
		DOWN	ZBY 2308	0.002
		FAST	ZBY 2328	0.002
		FORWARD	ZBY 2305	0.002
		HAND	ZBY 2316	0.002
		HAND-OFF-AUTO	ZBY 2387	0.002
		INCH	ZBY 2321	0.002
		LEFT	ZBY 2310	0.002
		OFF	ZBY 2312	0.002
		OFF-ON	ZBY 2367	0.002
		ON	ZBY 2311	0.002
		OPEN	ZBY 2313	0.002
		POWER ON	ZBY 2326	0.002
		RESET (red background)	ZBY 2323	0.002
		RESET (black background)	ZBY 2322	0.002
		REVERSE	ZBY 2306	0.002
		RIGHT	ZBY 2309	0.002
		RUN	ZBY 2334	0.002
		SLOW	ZBY 2327	0.002
		START	ZBY 2303	0.002
		STOP-START	ZBY 2366	0.002
		UP	ZBY 2307	0.002
	Yellow background	EMERGENCY STOP	ZBY 2330	0.002
<b>With legend</b> (with German language marking)	Black or red background (1)	AB	ZBY 2208	0.002
		AUF	ZBY 2207	0.002
		AUS	ZBY 2204	0.002
		AUS-EIN	ZBY 2266	0.002
		AUS-IN BETRIEB	ZBY 2267	0.002
		AUS-RÜCKSTELLUNG	ZBY 2233	0.002
		AUSSCHALTEN	ZBY 2232	0.002
		AUTO-HAND	ZBY 2364	0.002
		AUTO-O-HAND	ZBY 2385	0.002
		AUTOZYKL-HAND	ZBY 2299	0.002
		AUTOZYKL-1 ZYKL	ZBY 2298	0.002
		C-P-C-NORMAL	ZBY 2265	0.002
		EIN	ZBY 2203	0.002
		EINSCHALTEN	ZBY 2231	0.002
		HAND	ZBY 2316	0.002
		LANGSAM	ZBY 2227	0.002
		LINKS	ZBY 2210	0.002
		NOT-AUS (red background)	ZBY 2230	0.002
		NOT-HALT	ZBY 2229	0.002
		ÖFFNEN	ZBY 2213	0.002
		RECHTS	ZBY 2209	0.002
		RÜCKSTELLUNG	ZBY 2223	0.002
		SCHLIESSEN	ZBY 2214	0.002
		SCHNELL	ZBY 2228	0.002
		SPANNUNG EIN	ZBY 2226	0.002
		STEUERUNG AUS	ZBY 2212	0.002
		STEUERUNG EIN	ZBY 2211	0.002
		STÖRUNG (black background)	ZBY 2234	0.002
		STÖRUNG (red background)	ZBY 2235	0.002
		VOR	ZBY 2205	0.002
		VOR-O-ZURÜCK	ZBY 2284	0.002
		ZURÜCK	ZBY 2206	0.002
		ZYKLUS-HAND	ZBY 2297	0.002
		ZYKLUSSTART	ZBY 2295	0.002
	Yellow background	NOT-AUS	ZBY 22420001	0.002

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).



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814310



ZBY 02178

814311



ZBY 0●104

## 8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34)

Colour	Marking	Reference	Weight kg
Black or red background (1)	International	O (black background)	ZBY 02146 0.001
		O (red background)	ZBY 02931 0.001
		I	ZBY 02147 0.001
		II	ZBY 02148 0.001
		O-I	ZBY 02178 0.001
		I-II	ZBY 02179 0.001
		I-O-II	ZBY 02186 0.001
		AUTO	ZBY 02115 0.001
		STOP	ZBY 02304 0.001
	French	ARRET (red background)	ZBY 02104 0.001
		ARRET (black background)	ZBY 00104 0.001
		ARRET GENERAL	ZBY 02129 0.001
		ARRET REARMEMENT	ZBY 02133 0.001
		ARRET-MARCHE	ZBY 02166 0.001
		ARRIERE	ZBY 02106 0.001
		AUTO CYCLE-CYCLE	ZBY 02198 0.001
		AUTO CYCLE-MAIN	ZBY 02199 0.001
		AUTO-MAIN	ZBY 02164 0.001
		AUTO-O-MAIN	ZBY 02185 0.001
		AVANT	ZBY 02105 0.001
		AVANT-O-ARRIERE	ZBY 02184 0.001
		C-P-C-NORMAL	ZBY 02165 0.001
		CYCLE-MAIN	ZBY 02197 0.001
		DECLenchement	ZBY 02132 0.001
		DEFAUT (black background)	ZBY 02134 0.001
		DEFAUT (red background)	ZBY 02135 0.001
		DEPART CYCLE	ZBY 02195 0.001
		DESCENTE	ZBY 02108 0.001
		DROITE	ZBY 02109 0.001
		ENCLenchement	ZBY 02131 0.001
		EN SERVICE	ZBY 02111 0.001
		FERMETURE	ZBY 02114 0.001
		GAUCHE	ZBY 02110 0.001
		HORS SERVICE	ZBY 02112 0.001
		HORS-EN	ZBY 02167 0.001
		LENT	ZBY 02127 0.001
		MAIN	ZBY 02116 0.001
		MARCHE	ZBY 02103 0.001
		MONTEE	ZBY 02107 0.001
		OUVERTURE	ZBY 02113 0.001
		PHASE / PHASE	ZBY 02196 0.001
		REARMEMENT (red background)	ZBY 02123 0.001
		REARMEMENT (black background)	ZBY 00123 0.001
		SOUS TENSION	ZBY 02126 0.001
		VITE	ZBY 02128 0.001
Yellow background	French	ARRET D'URGENCE	ZBY 02130 0.001

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

## 8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34) (continued)

Colour	Marking	Reference	Weight kg
Black or red background (1)	English	AUTO-HAND	ZBY 02364 0.001
		AUTO-O-HAND	ZBY 02385 0.001
		CLOSE	ZBY 02314 0.001
		DOWN	ZBY 02308 0.001
		EMERGENCY STOP	ZBY 02330 0.001
		FAST	ZBY 02328 0.001
		FORWARD	ZBY 02305 0.001
		HAND	ZBY 02316 0.001
		HAND-OFF-AUTO	ZBY 02387 0.001
		INCH	ZBY 02321 0.001
		LEFT	ZBY 02310 0.001
		OFF	ZBY 02312 0.001
		OFF-ON	ZBY 02367 0.001
		ON	ZBY 02311 0.001
		OPEN	ZBY 02313 0.001
		POWER ON	ZBY 02326 0.001
		RESET (red background)	ZBY 02323 0.001
		RESET (black background)	ZBY 02322 0.001
		REVERSE	ZBY 02306 0.001
		RIGHT	ZBY 02309 0.001
		RUN	ZBY 02334 0.001
		SLOW	ZBY 02327 0.001
		START	ZBY 02303 0.001
		STOP-START	ZBY 02366 0.001
		UP	ZBY 02307 0.001
	German	AB	ZBY 02208 0.001
		AUF	ZBY 02207 0.001
		AUS	ZBY 02204 0.001
		AUS-EIN	ZBY 02266 0.001
		AUS-IN BETRIEB	ZBY 02267 0.001
		AUS-RÜCKSTELLUNG	ZBY 02233 0.001
		AUSSCHALTEN	ZBY 02232 0.001
		AUTO-HAND	ZBY 02364 0.001
		AUTO-O-HAND	ZBY 02385 0.001
		AUTOZYKL-HAND	ZBY 02299 0.001
		AUTOZYKL-1 ZYKL	ZBY 02298 0.001
		C-P-C-NORMAL	ZBY 02265 0.001
		EIN	ZBY 02203 0.001
		EINSCHALTEN	ZBY 02231 0.001
		HAND	ZBY 02316 0.001
		LANGSAM	ZBY 02227 0.001
		LINKS	ZBY 02210 0.001
		NOT-AUS (red background)	ZBY 02230 0.001
		NOT-HALT	ZBY 02229 0.001
		ÖFFNEN	ZBY 02213 0.001
		RECHTS	ZBY 02209 0.001
		RÜCKSTELLUNG	ZBY 02223 0.001
		SCHLIESSEN	ZBY 02214 0.001
		SCHNELL	ZBY 02228 0.001
		SPANNUNG EIN	ZBY 02226 0.001
		STEUERUNG AUS	ZBY 02212 0.001
		STEUERUNG EIN	ZBY 02211 0.001
		STÖRUNG (black background)	ZBY 02234 0.001
		STÖRUNG (red background)	ZBY 02235 0.001
		VOR	ZBY 02205 0.001
		VOR-O-ZURÜCK	ZBY 02284 0.001
		ZURÜCK	ZBY 02206 0.001
		ZYKLUS-HAND	ZBY 02297 0.001
		ZYKLUSSTART	ZBY 02295 0.001
Yellow background	English	EMERGENCY STOP	ZBY 02330 0.001
	German	NOT-AUS	ZBY 022420001 0.001

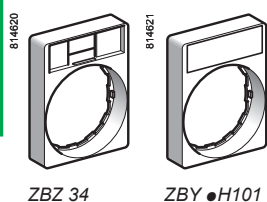
(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

## Control and signalling units Ø 22

Harmony® XB5, plastic

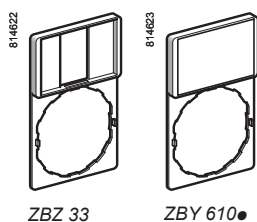
Legend holders for 8 x 27 or 18 x 27 mm legends  
for engraving or printing

1



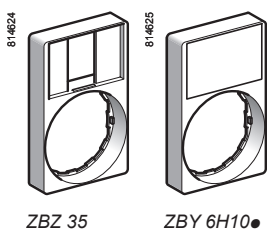
## 30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular heads	—	10	ZBZ 34	0.003
	Square heads	—	10	ZBC Z34	0.002
With blank legend	Circular heads	Black or red background	10	ZBY 2H101	0.004
		White or yellow background	10	ZBY 4H101	0.004
	Square heads	Black or red background	10	ZBC Y2H101	0.002
		White or yellow background	10	ZBC Y4H101	0.002



## Standard (30 x 50 mm) legend holders for 18 x 27 mm legends

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular and square heads	—	10	ZBZ 33	0.001
With blank legend	Circular and square heads	Black or red background	10	ZBY 6101	0.002
		White or yellow background	10	ZBY 6102	0.002



## 30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends

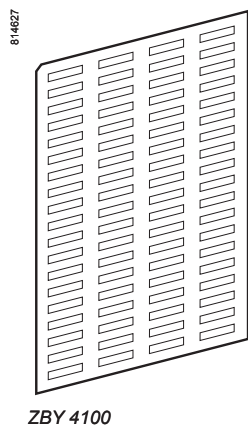
Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular heads	—	10	ZBZ 35	0.003
	Square heads	—	10	ZBC Z35	0.002
With blank legend	Circular heads	Black or red background	10	ZBY 6H101	0.004
		White or yellow background	10	ZBY 6H102	0.004
	Square heads	Black or red background	10	ZBC Y6H101	0.003
		White or yellow background	10	ZBC Y6H102	0.003

## Legends for engraving

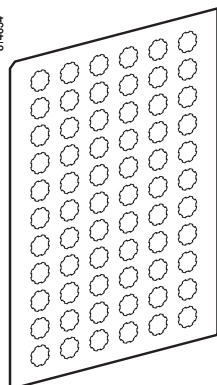
Description mm	For use with	Colour	Sold in lots of	Unit reference	Weight kg
8 x 27	30 x 40 mm legend holder	Black or red background	10	ZBY 0101	0.001
		White or yellow background	10	ZBY 0102	0.001
18 x 27	30 x 50 mm legend holder	Black or red background	10	ZBY 5101	0.001
		White or yellow background	10	ZBY 5102	0.001

## Sheets of peel-off legends (with backing board and protective cover)

Description	For use with	Sold in lots of	Unit reference	Weight kg
Sheet of 76 8 x 27 mm legends	30 x 40 mm legend holder ZBZ 32 and ZBZ 34	10	ZBY 4100	0.043
Sheet of 40 18 x 27 mm legends	30 x 50 mm legend holder ZBZ 33 and ZBZ 35	10	ZBY 5100	0.044



814634



ZBY 1101

## Legends for pushbuttons, switches and pilot lights XB5 A

Description	Marking		Sold in lots of	Unit reference	Weight kg
Sheets of 66 circular peel-off, transparent, self-adhesive legends	Without		10	ZBY 1101	0.017
Strips of 66 circular peel-off, transparent, self-adhesive legends	International	O	10	ZBY 1146	0.017
		I	10	ZBY 1147	0.017
		II	10	ZBY 1148	0.017
		III	10	ZBY 1149	0.017
		STOP	10	ZBY 1304	0.017
		↑	10	ZBY 1912	0.017
	French	ARRET	10	ZBY 1104	0.017
		ARRIERE	10	ZBY 1106	0.017
		AUTO	10	ZBY 1115	0.017
		AVANT	10	ZBY 1105	0.017
		DESCENTE	10	ZBY 1108	0.017
		MAIN	10	ZBY 1116	0.017
		MARCHE	10	ZBY 1103	0.017
		MONTEE	10	ZBY 1107	0.017
	English	HAND	10	ZBY 1316	0.017
		OFF	10	ZBY 1312	0.017
		ON	10	ZBY 1311	0.017
		START	10	ZBY 1303	0.017
	German	AB	10	ZBY 1208	0.017
		AUF	10	ZBY 1207	0.017
		AUS	10	ZBY 1204	0.017
		EIN	10	ZBY 1203	0.017
		ZU	10	ZBY 1214	0.017
Strip of 66 square peel-off, transparent, self-adhesive legends	Without		10	ZBC Y1101	0.017

563527



XBY 2U

## "SIS Label" labelling software

Application	Reference	Weight kg
Legend design for English, French, German, Italian, Spanish	XBY 2U	0.100

563089

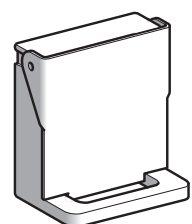
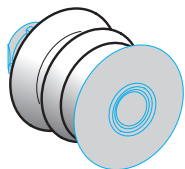
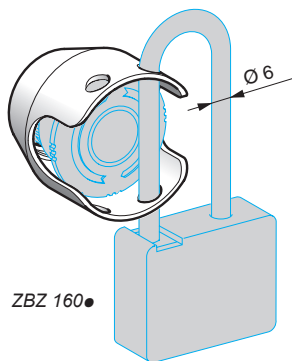
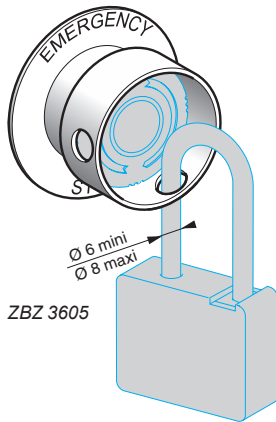


ZBY 9330

## Circular legends for Emergency stop mushroom head pushbuttons

Diameter mm	Colour	Marking on yellow background	Reference	Weight kg
60	Yellow	Without	ZBY 9101	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		NOT-AUS	ZBY 9230	0.004
		PARADA DE EMERGENCIA	ZBY 9430	0.004
		ARRESTO EMERGENZA	ZBY 9630	0.004
90	Yellow	Without	ZBY 8101	0.008
		ARRET D'URGENCE	ZBY 8130	0.008
		EMERGENCY STOP	ZBY 8330	0.008
		NOT-AUS	ZBY 8230	0.008
		PARADA DE EMERGENCIA	ZBY 8430	0.008
		ARRESTO EMERGENZA	ZBY 8630	0.008

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## Accessories

## Padlocking kit for Emergency Stop

Description	Application	Colour	Reference	Weight kg
<b>Padlocking kit</b> Conforming to IEC 60204-1, EN/ISO 13850: 2006 (1) (2) (padlockable)	For Emergency Stop function only, with the following Ø 40 trigger-action pushbuttons: XB5 AS844, XB5 AS944, ZB5 AS844, ZB5 AS944.	Yellow	<b>ZBZ 3605</b>	0.045

Description	Marking	Colour	Reference	Weight kg
<b>Ø 60 mm legend for padlocking device</b> ZBZ 3605	Without	Yellow	<b>ZBY 9101T</b>	0.004
	ARRET D'URGENCE	Yellow	<b>ZBY 9130T</b>	0.004
	EMERGENCY STOP	Yellow	<b>ZBY 9330T</b>	0.004
	NOT-AUS	Yellow	<b>ZBY 9230T</b>	0.004

## Guards

Description	Application	Colour	Reference	Weight kg
<b>Metal guards</b> Padlockable (2)	For Emergency Stop function only, with the following Ø 40 trigger-action pushbuttons: XB5 AT8, XB5 AS8, XB5 AS9, ZB5 AT8, ZB5 AS8, ZB5 AS9.	Chromium plated	<b>ZBZ 1600</b>	0.046
		Black	<b>ZBZ 1602</b>	0.046
		Red	<b>ZBZ 1604</b>	0.046
		Yellow	<b>ZBZ 1605</b>	0.046
		Blue	<b>ZBZ 1606</b>	0.046
<b>Plastic guard</b>	Selector switches and key switches	Black	<b>ZBZ 2102</b>	0.005

## Bellows for harsh environments (IP 69K)

For use with	Material	Colour	Sold in lots of	Unit reference	Weight kg
Environments subject to humidity, dust, high pressure cleaning, etc.	Silicone	Red	2	<b>ZBZ 48</b>	0.009
	EPDM	Black	2	<b>ZBZ 28</b>	0.009
		Yellow	2	<b>ZBZ 58</b>	0.009

## Padlockable flaps

Description	For use with	Colour	Reference	Weight kg
<b>Padlockable flaps</b>	Pushbuttons	Black	<b>ZB4 BZ62</b>	0.076
		Red	<b>ZB4 BZ64</b>	0.076
		Yellow	<b>ZB4 BZ65</b>	0.076
		Blue	<b>ZB4 BZ66</b>	0.076

(1) Standard circular legends are not compatible with this product. Use special legends **ZBY 9...T**.

(2) No isolation function is possible when this guard is fitted.

(3) Only when mounted on control stations. Use legends **ZBY 9...T**.



ZB5 SZ3

**Accessories****Blanking plug**

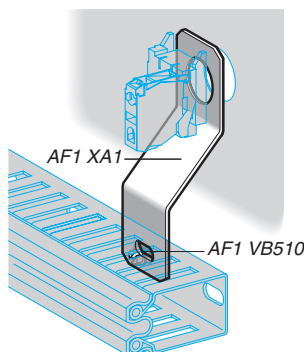
Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Plastic square blanking plug (with fixing nut) (1)	Ø 22 control and signalling units	Black	10	ZB5 SZ5	0.009
Plastic circular blanking plug (with fixing nut)	Ø 22 control and signalling units	Black	10	ZB5 SZ3	0.009

**Liquid spray protective washer for insertion beneath head**

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Liquid spray protective washer	Ø 22 control and signalling units	Chromium plated	50	ZB4 BZ007	0.010
		Black	50	ZB4 BZ0077	0.010

**Cable ducting support**

Description	Application	Sold in lots of	Unit reference	Weight kg
Cable ducting support	Fixing beneath head	10	AF1 XA1	0.030
M5 x 10 screw, with hexagonal slotted head	For fixing cable ducting	100	AF1 VB510	0.003
Support	For XB5 A pushbuttons, switches and pilot lights	1	DX1 AP52	0.160



(1) Body/fixing collar **ZB5 AZ009**, required for mounting, must be ordered separately, see page 1/169.

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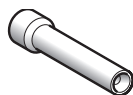
DL1 CJ0●●●



DL1 CE●●●



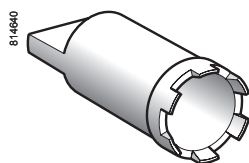
DL1 CF●●●



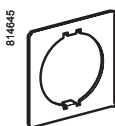
XBF X13



ZBZ 8



ZB5 AZ905



ZB5 AZ902

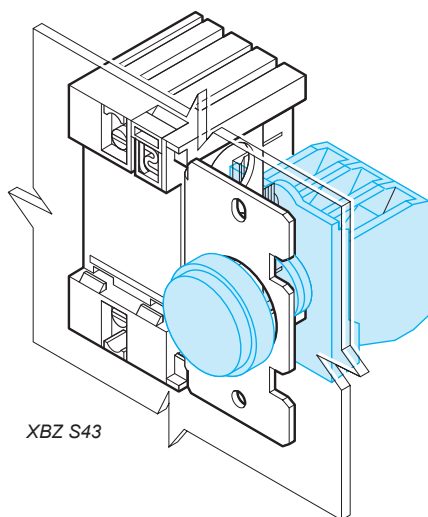
## Bulbs with BA 9s base fitting and associated accessories

Description	Characteristics	Colour	Sold in lots of	Unit reference	Weight kg	
LEDs	≈ 24 V	White	1	DL1 CJ0241	0.002	
		Green	1	DL1 CJ0243	0.002	
		Red	1	DL1 CJ0244	0.002	
		Orange	1	DL1 CJ0245	0.002	
		Blue	1	DL1 CJ0246	0.002	
	≈ 48 V	Green	1	DL1 CJ0483	0.002	
		Red	1	DL1 CJ0484	0.002	
		Orange	1	DL1 CJ0485	0.002	
	6 V -1.2 W	White	1	DL1 CD0061	0.002	
		Green	1	DL1 CD0063	0.002	
		Red	1	DL1 CD0064	0.002	
		Orange	1	DL1 CD0065	0.002	
		Blue	1	DL1 CD0066	0.002	
	Incandescent bulbs	6 V -1.2 W	–	10	DL1 CB006	0.002
		24 V - 2 W	–	10	DL1 CE024	0.002
120...130 V - 2.4 W		–	10	DL1 CE130	0.002	
Neon bulbs	120...130 V	–	10	DL1 CF110	0.002	
	230...240 V	–	10	DL1 CF220	0.002	
Bulb extractor	–	–	1	XBF X13	0.005	
Lens cap tightening tool	Illuminated pushbuttons, with flush push	–	1	ZBZ 8	0.009	

Description	Application	Sold in lots of	Unit reference	Weight kg
<b>Add-on square trim</b>				
Add-on square trim	Gives a square appearance to ZB5 A circular heads	10	ZB5 AZ31	0.002
<b>Nut</b>				
Nut	Head fixing	10	ZB5 AZ901	0.002
<b>Tightening tool</b>				
Tightening tool	Tightening head fixing nut ZB5 AZ901	1	ZB5 AZ905	0.016
<b>Anti-rotation plate</b>				
Anti-rotation plate	Prevents rotation of the head	10	ZB5 AZ902	0.008



ZBG 455P



XBZ S43

## Replacement keys

Description	Key number	Reference	Weight kg
<b>For Emergency Stop key release heads and key switches</b>			
Sets of 2 keys	455	ZBG 455	0.013
	421E	ZBG 421E	0.014
	458A	ZBG 458A	0.014
	520E	ZBG 520E	0.014
	3131A	ZBG 3131A	0.014
	4A185	ZBD A185	0.014
	LU1	ZBD LU1	0.014
	LU2	ZBD LU2	0.014
	LU3	ZBD LU3	0.014
	LU4	ZBD LU4	0.014
	LU5	ZBD LU5	0.014
	LU6	ZBD LU6	0.014
	LU7	ZBD LU7	0.014
	LU8	ZBD LU8	0.014
	LU9	ZBD LU9	0.014
	LU10	ZBD LU10	0.014
	LU11	ZBD LU11	0.014
	LU12	ZBD LU12	0.014
	LU13	ZBD LU13	0.014
	LU14	ZBD LU14	0.014
	8D1	ZBD 8D1	0.014

## For booted selector switches

Sets of 2 keys, one of which supplied booted (rubber boot)	455	ZBG 455P	—
	421E	ZBG 421EP	—
	458A	ZBG 458AP	—
	520E	ZBG 520EP	—
	3131A	ZBG 3131AP	—

## Accessory for key switches

Description	Function	Reference	Weight kg
Keyhole cover (rubber cover)	Protection of lock barrel when no key inserted in lock	ZBG P	0.005

## AS-Interface module for Ø 22 control and signalling units

## Panel fixing, in conjunction with a Harmony pushbutton or switch

Description	Application	Reference	Weight kg
S7.F profile	4 inputs and 4 outputs direct supply from the bus	XBZ S43	0.100

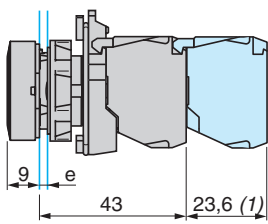




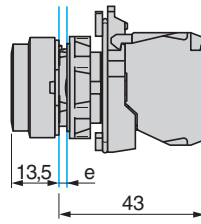
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#### Pushbuttons, spring return

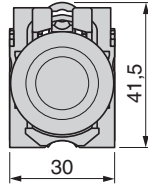
XB5 AA●●



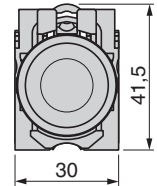
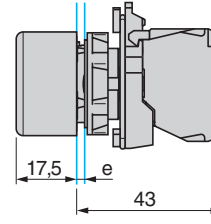
XB5 AL●●



Common face view



XB5 AP●●



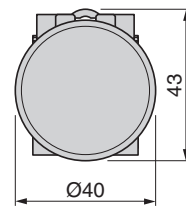
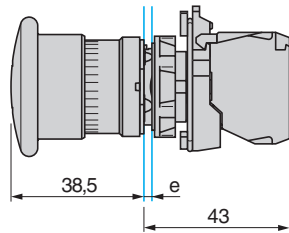
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

#### Mushroom head pushbuttons, spring return

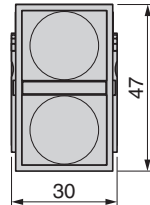
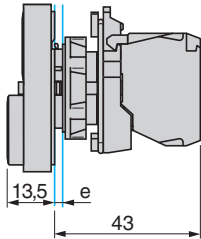
XB5 AC21



e: clamping thickness: 1 to 6 mm

#### Double-headed pushbuttons, spring return

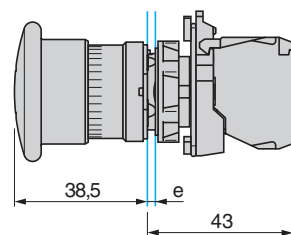
XB5 AL●45



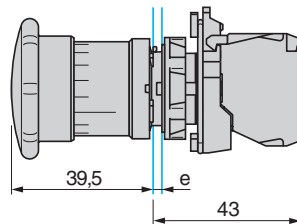
e: clamping thickness: 1 to 6 mm

#### Emergency stop mushroom head pushbuttons, trigger action and mechanical latching

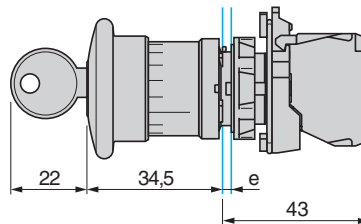
XB5 AT845



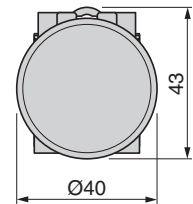
XB5 AS8445



XB5 AS9445



Common face view

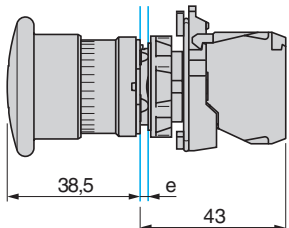


e: clamping thickness: 1 to 6 mm

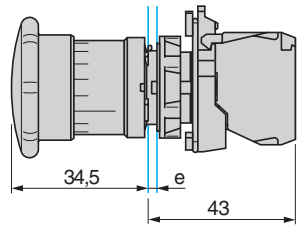
e: clamping thickness: 1 to 6 mm

#### Emergency switching off mushroom head pushbuttons, mechanical latching

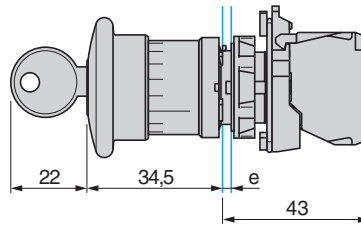
XB5 AT42



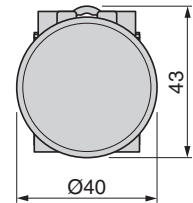
XB5 AS542



XB5 AS142



Common face view



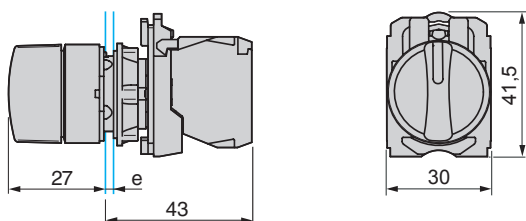
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

#### Selector switches

##### Standard handle

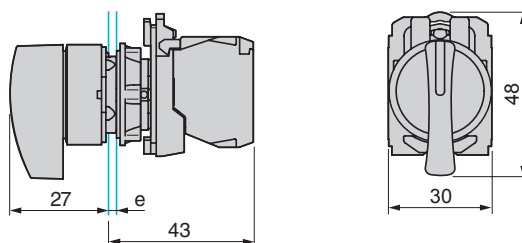
XB5 AD●●



e: clamping thickness: 1 to 6 mm

##### Long handle operator

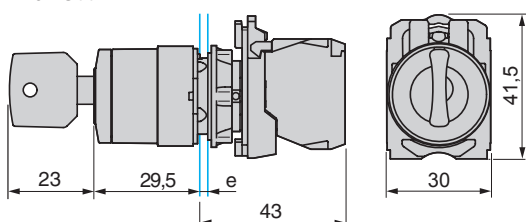
XB5 AJ●●



e: clamping thickness: 1 to 6 mm

#### Key switches

XB5 AG●●



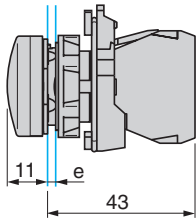
e: clamping thickness: 1 to 6 mm

1

#### Pilot lights

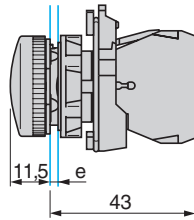
##### Integral LED

XB5 AVB●, AVG●, AVM●



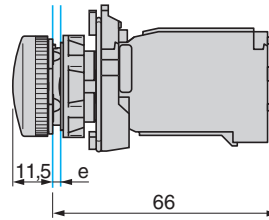
##### Direct supply

XB5 AV6●

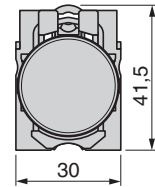


##### Via integral transformer

XB5 AV3●, AV4●



Common face view



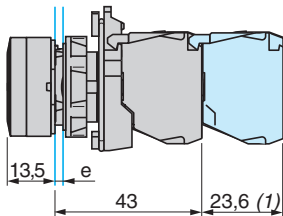
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

#### Illuminated pushbuttons

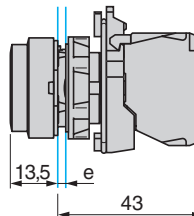
##### Integral LED

XB5 AW3●●5



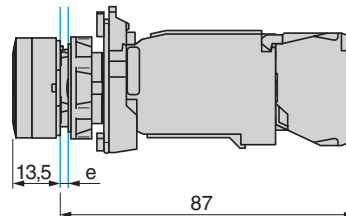
##### Direct supply

XB5 AW3●65

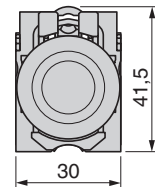


##### Via integral transformer

XB5 AW3●●5



Common face view



(1) Additional row of contacts or double contact.

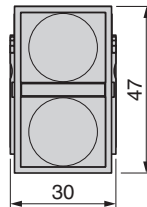
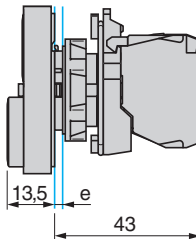
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

#### Double-headed pushbuttons with pilot light

##### Integral LED

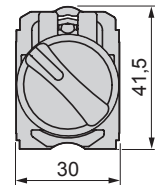
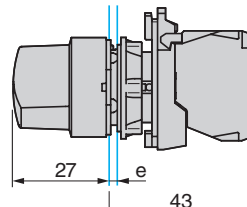
XB5 AW84●5



#### Illuminated selector switches

##### Integral LED

XB5 AK12●●5



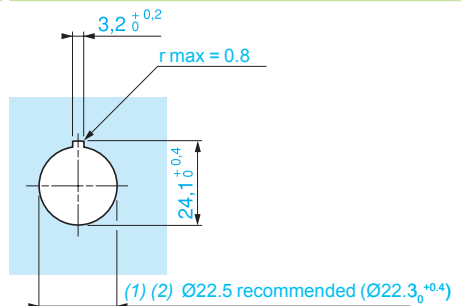
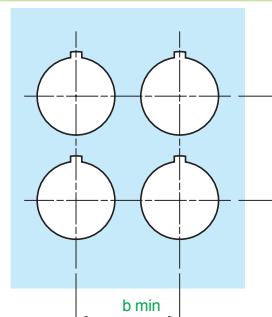
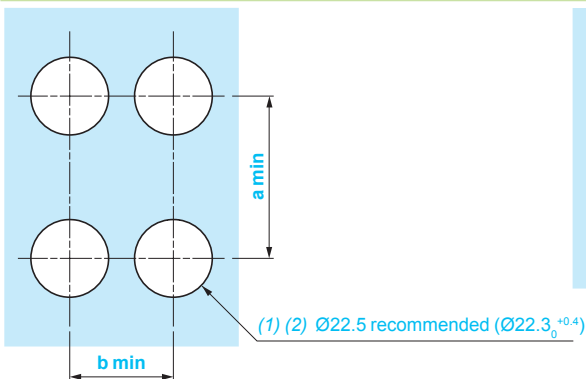
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

#### Panel cut-out for pushbuttons, switches and pilot lights (finished holes, ready for installation)

##### Connection by screw clamp terminals or plug-in connectors or on printed circuit board

##### Detail of lug recess



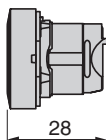
(1) Diameter on finished panel or support.

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended, see page 1/190

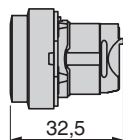
Connection	a	b
By screw clamp terminals or plug-in connector	40	30
By Faston connectors	45	32
On printed circuit board	30	30

#### Heads for spring return pushbuttons

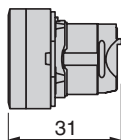
ZB5 AA●●, AA●●●, ZB5 AA●8



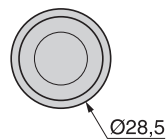
ZB5 AL●, ZB5 AL●●



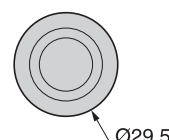
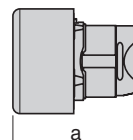
ZB5 AA●4, ZB5 AA●6



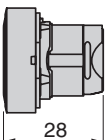
Common face view



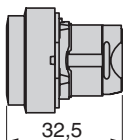
ZB5 AP●●, ZB5 AP●S, ZB5 AP●83, ZB5 AP●



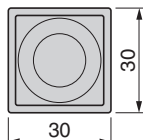
ZB5 CA●, ZB5 CA0



ZB5 CL●



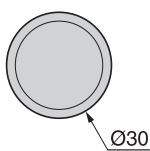
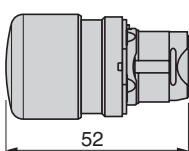
Common face view



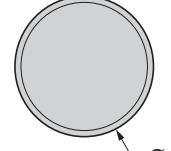
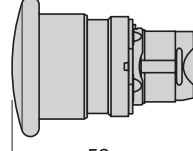
ZB5	a
AP●●	36.5
AP●S	33
AP●83	32
AP●	35

#### Mushroom heads for spring return pushbuttons

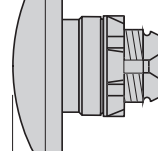
ZB5 AC●4



ZB5 AC●, AR●



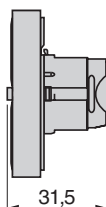
ZB5 AR●16



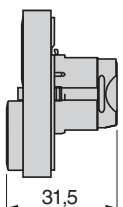
ZB5	Ø
AC●	40
AR●	60

#### Heads for double-headed, spring return pushbuttons

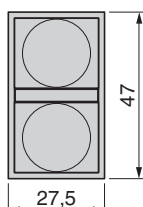
ZB5 AA81●●, ZB5 AA82●●



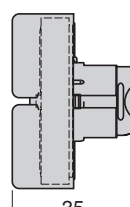
ZB5 AL83●●, ZB5 AL84●●



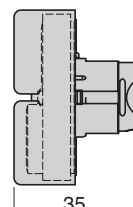
Common face view



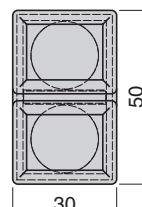
ZB5 AA91●●, ZB5 AA92●●



ZB5 AL93●●, ZB5 AL94●●

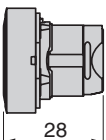


Common face view

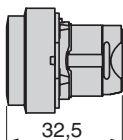


#### Heads for "Push-push to release" pushbuttons

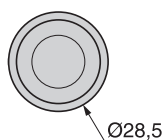
ZB5 AH0●



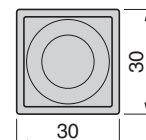
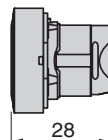
ZB5 AH●



Common face view

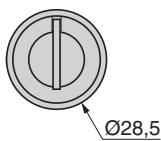
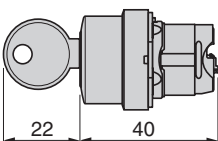


ZB5 CH0●



#### Heads for lockable "Push-turn" pushbuttons

ZB5 AFD

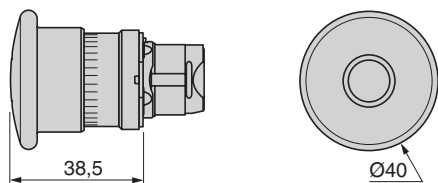


1

## Mushroom heads for Emergency stop trigger action and mechanical latching pushbuttons

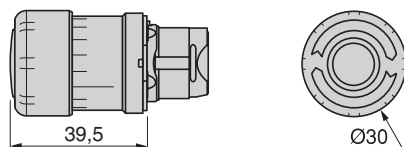
### Push-pull

ZB5 AT84

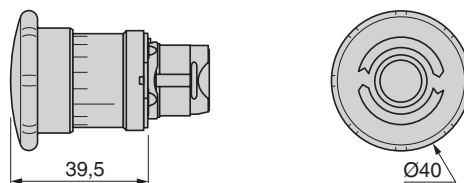


### Turn to release

ZB5 AS834

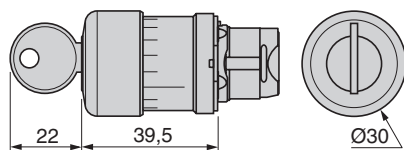


ZB5 AS844

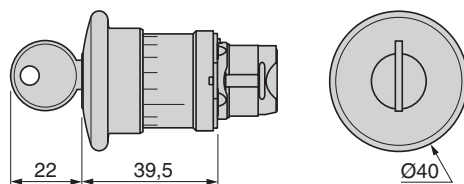


### Key release

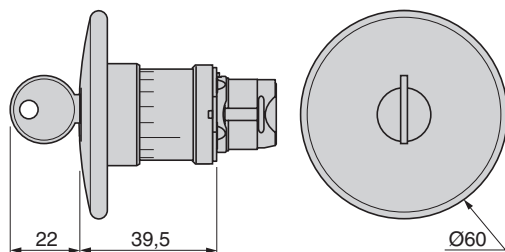
ZB5 AS934



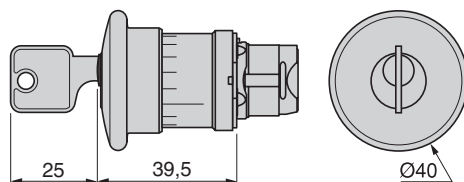
ZB5 AS944



ZB5 AS964



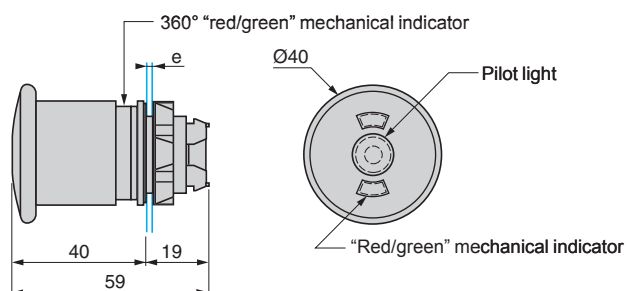
ZB5 AS944D



## Illuminated mushroom heads for Emergency stop trigger action and mechanical latching pushbuttons

### Push-pull with pilot light or mechanical state indicator

ZB5 AT8643M

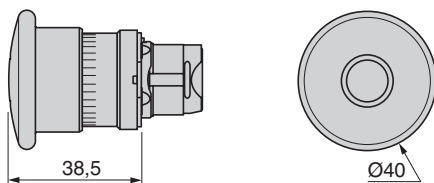


e: panel thickness 1 to 6 mm

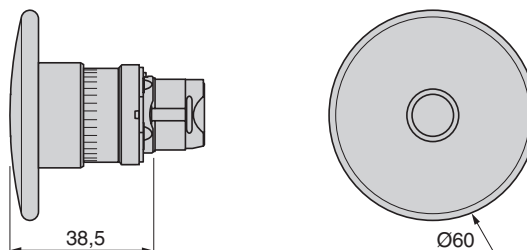
## Mushroom heads for Emergency switching off mechanical latching pushbuttons

### Push-pull

ZB5 AT4

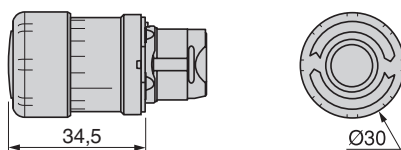


ZB5 AX4

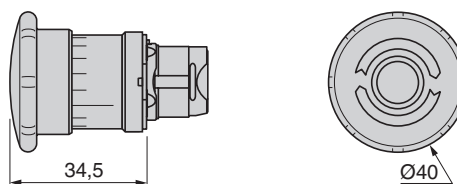


### Turn to release

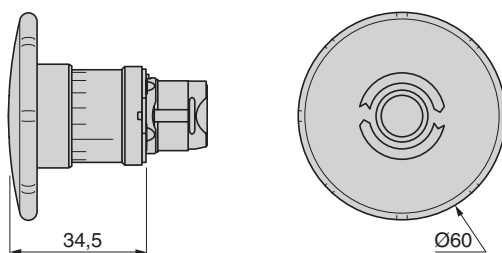
ZB5 AS44



ZB5 AS54

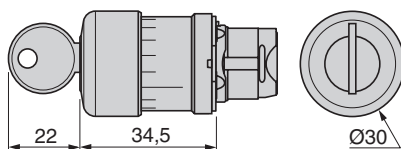


ZB5 AS64

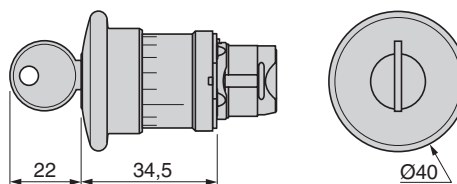


### Key release

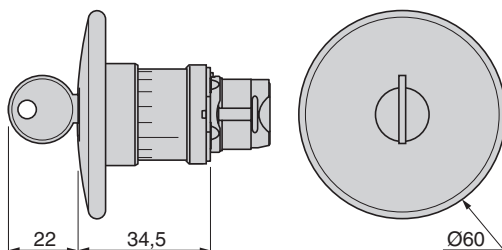
ZB5 AS74



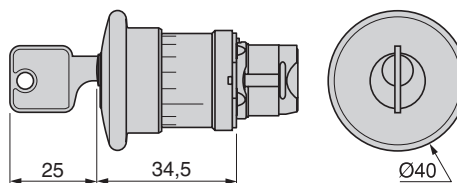
ZB5 AS14



ZB5 AS24



ZB5 AS14D

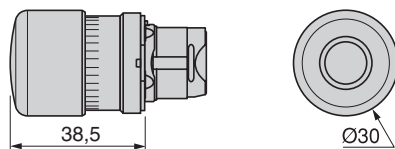


1

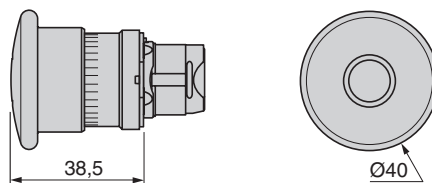
## Mushroom heads for latching pushbuttons (1)

### Push-pull

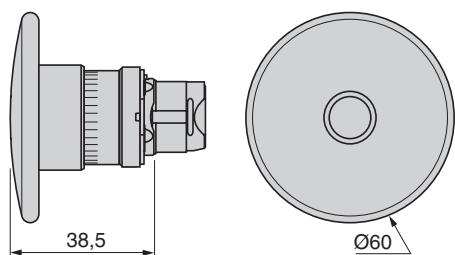
#### ZB5 AT24



#### ZB5 AT2

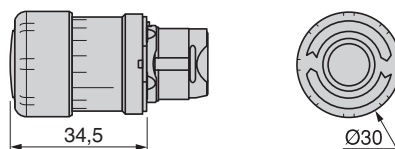


#### ZB5 AX2

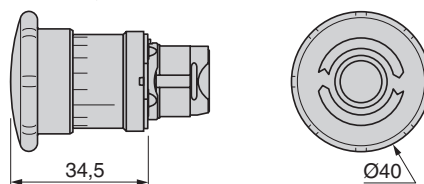


### Turn to release

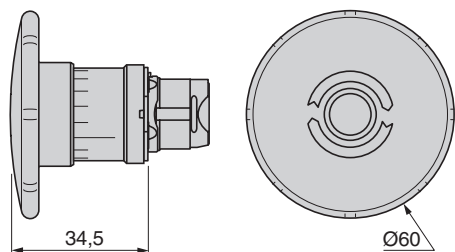
#### ZB5 AS42



#### ZB5 AS52, ZB5 AS55

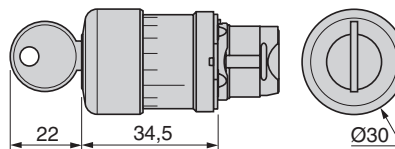


#### ZB5 AS62

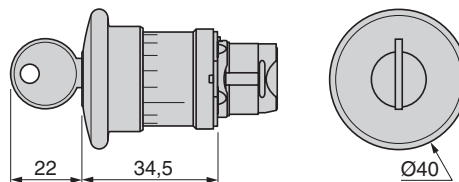


### Key release

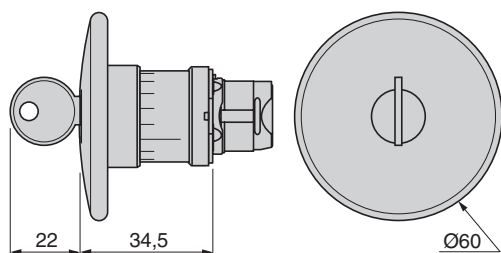
#### ZB5 AS72



#### ZB5 AS12



#### ZB5 AS22

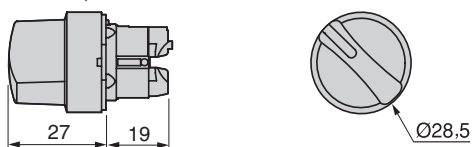


(1) Red mushroom heads for Emergency stop, latching pushbuttons: see pages 1/196 and 1/197.

## Heads for selector switches

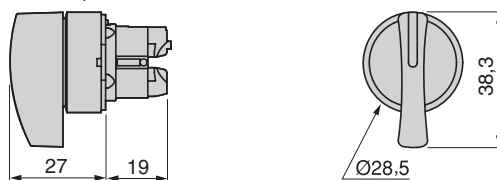
### Standard handle

ZB5 AD●, ZB5 AD●M



### Long handle operator

ZB5 AJ●, ZB5 AJ●M



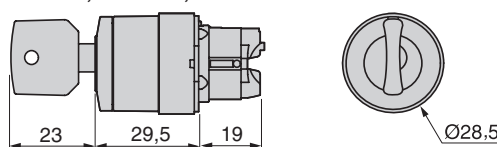
### Black knurled knob

ZB5 AD●9



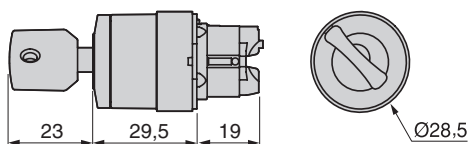
### Key switch (Ronis n° 455)

ZB5 AG●, ZB5 AG0●, ZB5 AG●M



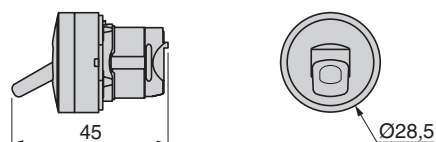
### Key switch (DOM n° 8D1)

ZB5 AGD



## Heads for toggle switches

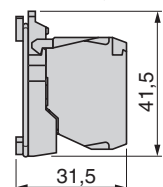
ZB5 AD●8



## Bodies for pushbuttons and switches

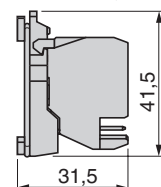
### Screw clamp terminal connections

ZB5 AZ10●, ZB5 AZ141



### Plug-in connector

ZB5 AZ10●4, ZB5 AZ1414



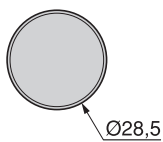
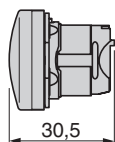


1

## Heads for pilot lights, with light source

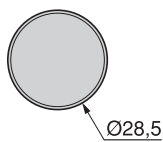
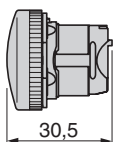
### Integral LED

ZB5 AV0●3

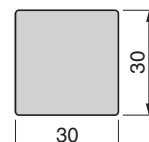
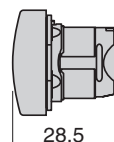


### Incandescent, neon or LED

ZB5 AV0●, AV0●S



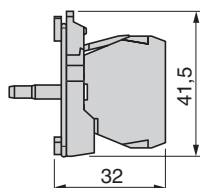
ZB5 CV0●3, CH3●3



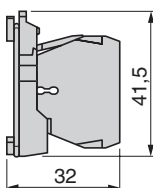
## Bodies for pilot lights, screw clamp terminal connections

### Integral LED

ZB5 AV●●

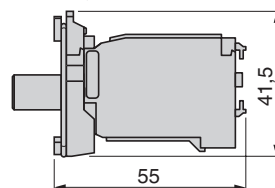


ZB5 AV6



### With integral transformer for BA 9s bulb

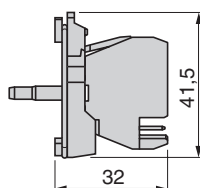
ZB5 AV●, AV●D●



## Bodies for pilot lights, plug-in connector

### Integral LED

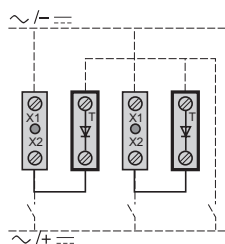
ZB5 AV●●4



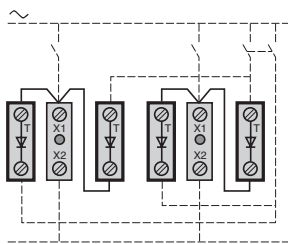
## Blocks for "test light" function

### Connections

ZBZ G156



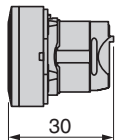
ZBZ M156



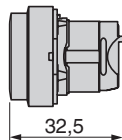
#### Heads for spring return illuminated pushbuttons, for light source types:

##### LED

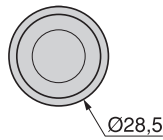
ZB5 AW3●3, AW3●3S,  
ZB5 AA●8



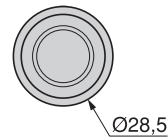
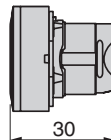
ZB5 AW1●3, ZB5 AW1●3S,  
ZB5 AL●8



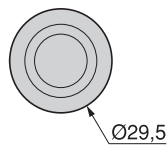
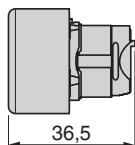
Common face view



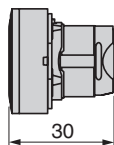
ZB5 AW9●3



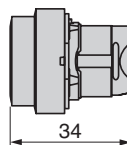
ZB5 AW5●3



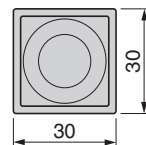
ZB5 CW3●3



ZB5 CW1●3

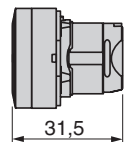


Common face view

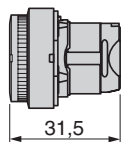


#### Bulb with BA 9s base fitting

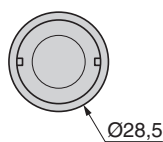
ZB5 AW3●, AW3●S



ZB5 AW1●, ZB5 AW1●S

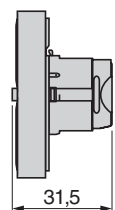


Common face view

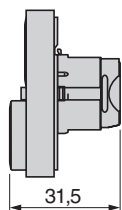


#### Heads for double-headed pushbuttons with pilot light

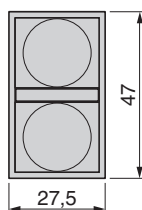
ZB5 AW81●●3,  
ZB5 AW82●●3



ZB5 AW83●●3,  
ZB5 AW84●●3

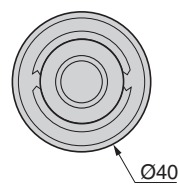
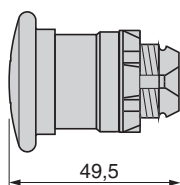


Common face view



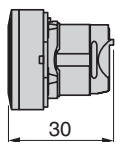
#### Heads for illuminated, latching, mushroom head pushbuttons

ZB5 AW7●3

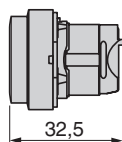


#### Heads for illuminated "push-push to release" pushbuttons

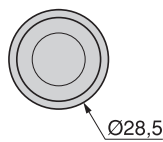
ZB5 AH0●3



ZB5 AH●3

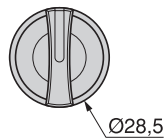
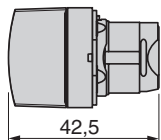


Common face view



#### Heads for illuminated selector switches with standard handle

ZB5 AK1●●3

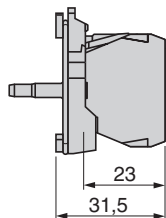


1

## Bodies for illuminated pushbuttons and selector switches, screw clamp terminal connections

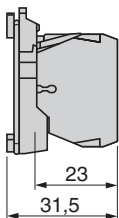
### Integral LED

ZB5 AW0●●●



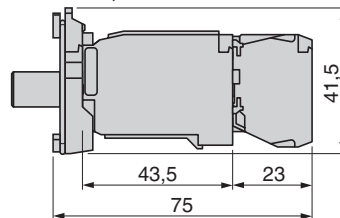
### Direct supply for BA 9s bulb

ZB5 AW06●



### Integral transformer for BA 9s bulb

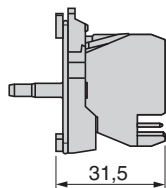
ZB5 AW0●●, ZB5 AW0●D●●



## Bodies for illuminated pushbuttons and selector switches, plug-in connector

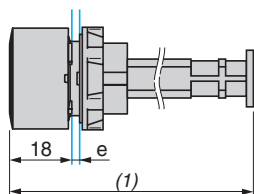
### Integral LED

ZB5 AW0●●●4



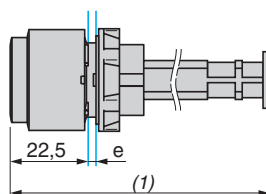
## Manual overload reset buttons

XB5 A8●●●



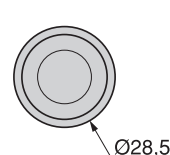
e: panel thickness 1 to 6 mm

XB5 AL8●●●



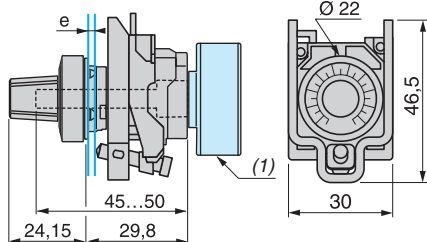
(1) Value not yet communicated

Common face view



## Head + mounting base for potentiometer

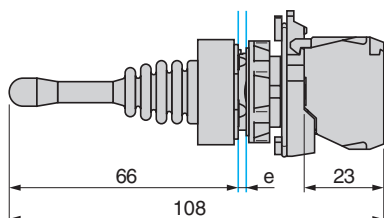
ZB5 AD9●2



(1) Potentiometer not included.

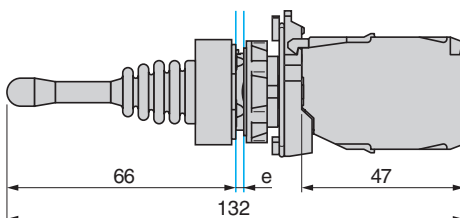
## Joystick controllers

XD5 PA●2

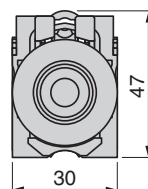


e: panel thickness 1 to 6 mm

XD5 PA●4

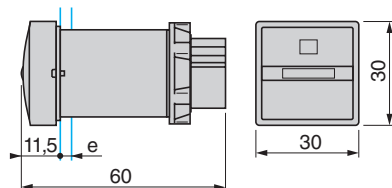


Common face view



## Hour counters

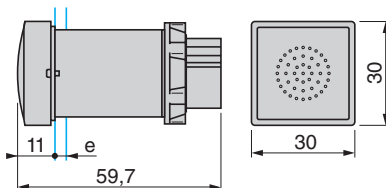
XB5 DS●



e: panel thickness 1 to 6 mm

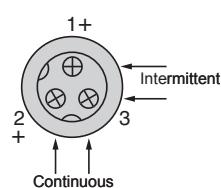
## Annunciators

XB5 KS●



## Cabling

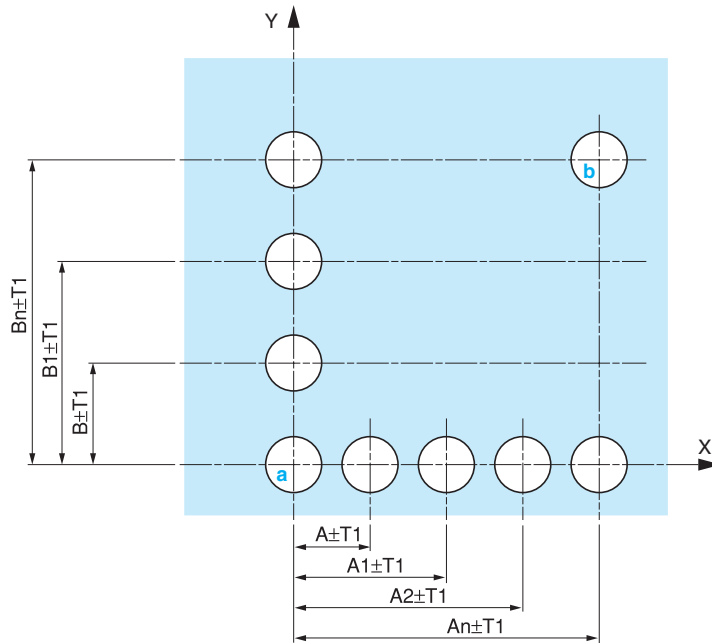
XB5 KS●



#### Pushbuttons, switches and pilot lights for printed circuit board connection

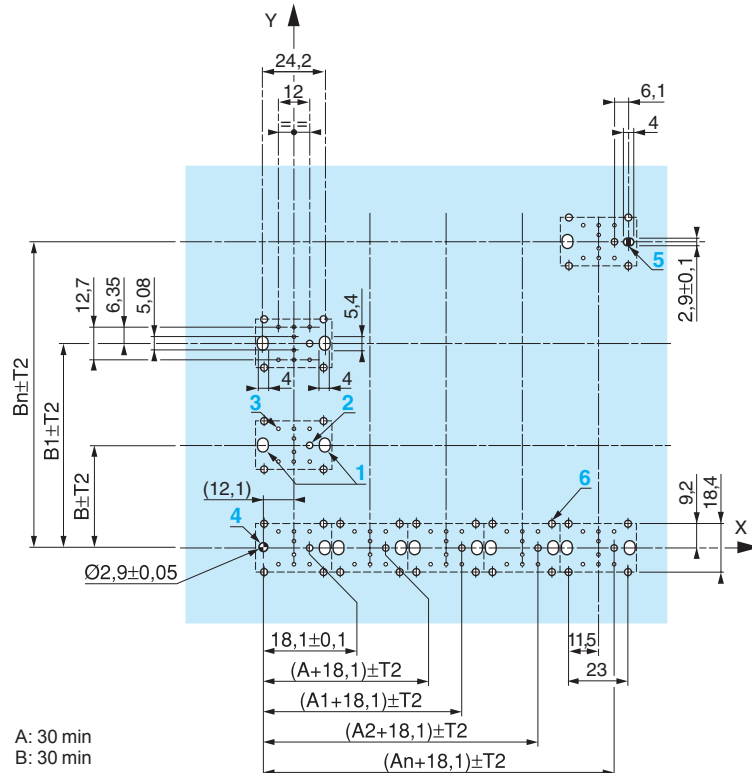
##### Panel cut-out (viewed from installer's side)

Dimensions in mm



##### Printed circuit board drillings (viewed from electrical block side)

Dimensions in mm



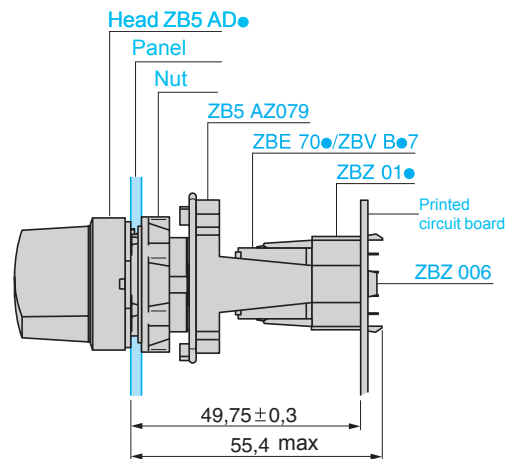
##### General tolerances of the panel and printed circuit board

The cumulative tolerance must not exceed 0.3 mm:  $T1 + T2 = 0.3 \text{ mm max.}$

##### ■ Installation precautions:

- Minimum thickness of circuit board: 1.6 mm.
- Cut-out diameter:  $22.4 \text{ mm} \pm 0.1 \text{ mm}$ .
- Orientation of body/fixing collar ZB5 BZ079:  $\pm 2^\circ 30'$  (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB5 BZ079 fixing collar/pillar and its fixing screws:
  - every 90 mm horizontally (X), and 120 mm vertically (Y),
  - with each selector switch head (ZB5 AD●, ZB5 AJ●, ZB5 AG●).

The fixing centres marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5** on the printed circuit board.



##### ■ Mounting of adapter (socket) ZBZ 01● :

- 1 2 elongated holes for ZBZ 006 screw access.
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05$  for centring adapter ZBZ 01●.
- 3 8 x  $\varnothing 1.2 \text{ mm}$  holes.
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05$ , for aligning the printed circuit board (with cut-out marked **a**).
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**).
- 6 4 holes  $\varnothing 2.4 \text{ mm} \pm 0.05$  for clipping in adapter ZBZ 01●.

Dimensions  $An + 18.1$  relate to the  $\varnothing 2.4 \text{ mm} \pm 0.05$  holes for centring adapter ZBZ 01●.

## General

The XA2 VA digital display unit comprises 2 parts: 1 body type **ZA2 VA1●** and 1 head type **ZA2 VA0●**.

- The body, which clips onto the rear of the head, contains all the electronic decoding and supply circuitry.
- The head, fitted into a Ø 22.3 mm hole on the support panel and held in position by a locking ring, contains the 7 segment LED display (height 14 mm) + decimal point.

Connection is made to screw connectors.

Grouping of 2 displays is possible, using the double legend plate holder.

Type of display unit	<b>ZA2 VA1● + ZA2 VA0●</b>
Type	7 segment LED + decimal point (height: 14 mm)
Mounting	Panel mounting in Ø 22.3 mm hole Grouping facility (2 display units): - mechanically: by double legend plate holder (associated reading) or - electrically: connecting in parallel (multiplexing for version with memory)

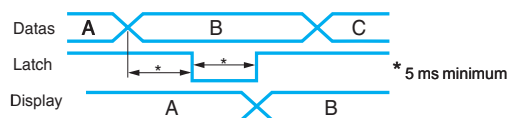
## Environment

Ambient air temperature	For operation: - 25...+ 70 °C For storage: - 40...+ 85 °C
Vibration resistance	10 gn (10...500 Hz) conforming to IEC 68-2-6
Shock resistance	180 gn, duration 11 ms, conforming to IEC 68-2-27
Electric shock protection	Class II, conforming to IEC 536 and NF C 20-030
Degree of protection	IP 65 conforming to IEC 529 and NF C 20-010

## Electrical characteristics

Product certifications	UL (Listed) - CSA
Supply voltage	24 V $\overline{\text{---}}$ (consumption: 40 mA max.)
Voltage limits	13 V (70 mA) to 30 V (36 mA max.)
Protection	Against reverse polarity
Logic inputs	State 0: - 30 V (0 mA) to + 5 V (1.4 mA) State 1: + 13 V (4 mA) to + 30 V (9.5 mA) These inputs must be connected to PLC solid-state PNP type outputs, positive logic
Connection	Screw connectors Clamping capacity: 0.5 x 2.5 mm <sup>2</sup> .

## Change of value displayed



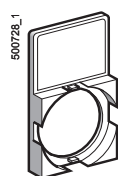
### References



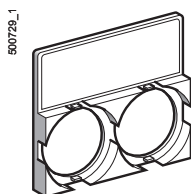
ZA2 VA1●



ZA2 VA0●



ZA2 BZ35●●



ZA2 VZ31●●

### Digital display unit (body + head)

Description	Reference	Weight kg
Body	Decimal + BCD	ZA2 VA11 0.060
	BCD + Latch	ZA2 VA12 0.060
Head	Green	ZA2 VA03 0.020
	Red	ZA2 VA04 0.020
	Yellow	ZA2 VA05 0.020

### Accessories

Single legend plate holder with blank legend plate	Black or red background legend plate	ZA2 BZ35101 0.001
	White or yellow background legend plate	ZA2 BZ35102 0.001
Double legend plate holder with blank legend plate	Black or red background legend plate	ZA2 VZ3101 0.005
	White or yellow background legend plate	ZA2 VZ3102 0.005
Tightening tool	For head locking ring	ZA2 BZ905 0.060

### Dimensions

#### Panel cut-out

(CENELEC EN 50007)

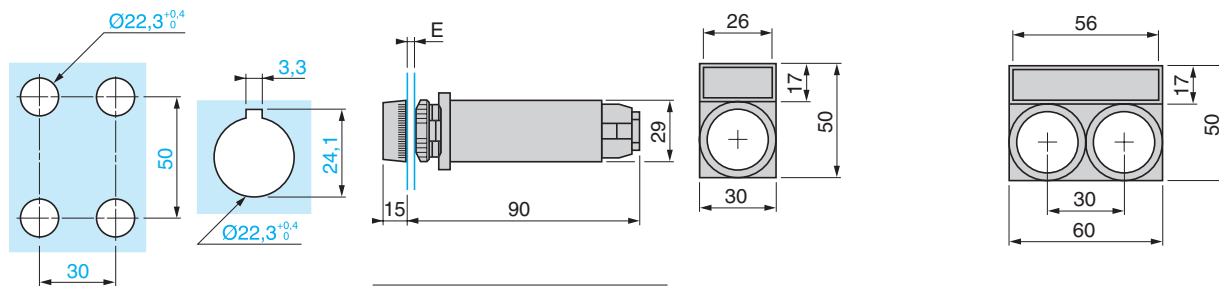
#### Digital display unit

ZA2 VA1● + ZA2 VA0●

#### Legend plate holder

ZA2 BZ3510●

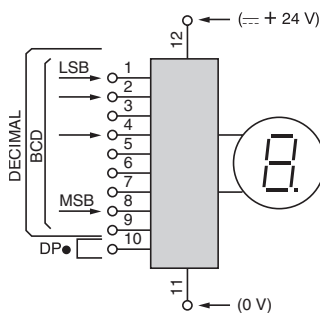
ZA2 VZ310●



E = panel thickness, 1 to 5 mm

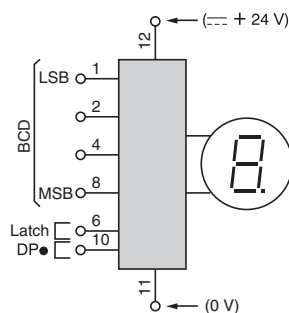
### Connections and input tables

#### Decimal + BCD



DP = decimal point

#### BCD + Latch



Latch = memory

#### Decimal

1	2	3	4	5	6	7	8	9	Display
0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	1
0	1	0	0	0	0	0	0	0	2
0	0	1	0	0	0	0	0	0	3
0	0	0	1	0	0	0	0	0	4
0	0	0	0	1	0	0	0	0	5
0	0	0	0	0	1	0	0	0	6
0	0	0	0	0	0	1	0	0	7
0	0	0	0	0	0	0	1	0	8
0	0	0	0	0	0	0	0	1	9

#### BCD

8	4	2	1	Display	8	4	2	1	Display
0	0	0	0	0	1	0	0	1	9
0	0	0	1	1	1	0	1	0	A
0	0	1	0	2	1	0	1	1	B
0	0	1	1	3	1	1	0	0	C
0	1	0	0	4	1	1	0	1	D
0	1	0	1	5	1	1	1	0	E
0	1	1	0	6	1	1	1	1	F
0	1	1	1	7					
1	0	0	0	8					

BCD = binary coded decimal

Environment			
Protective treatment	Standard version		"TH"
Ambient air temperature (around the device)	For storage	°C	- 40...+ 70
	For operation	°C	- 25...+ 70 for integral LED and neon bulb versions - 25...+ 55 for incandescent bulb version
Electric shock protection	Conforming to IEC 60536		Class II
Degree of protection	Conforming to IEC 60529		IP 54 front face IP 20 rear face (protection against direct contact)
	Conforming to NEMA		NEMA type 12 unless otherwise stated NEMA type 4: LED pilot light XB7 EV0●● only
Mounting	Conforming to EN/IEC 60947-5-1		Finished fixing hole: 22.5 mm, recommended (22.3 +0.4/ 0) Fixing centres: 30 x 40 mm min. (unless otherwise stated) Support panel thickness: metal: 1 to 6 mm, plastic: 2 to 6 mm Fixing nut beneath head: <input type="checkbox"/> min. torque: 0.8 N.m <input type="checkbox"/> recommended torque: 1.2 N.m <input type="checkbox"/> max. torque: 2 N.m
Cabling capacity	Conforming to EN/IEC 60947-1		Screw clamp terminal connection: <input type="checkbox"/> min: 1 x 0.34 mm² without cable end <input type="checkbox"/> max: 2 x 1.5 mm² with cable end or 2 x 2.5 mm² without cable end
			Forked "U" type tag connection: 2 max., fitted head to tail Recommended fork width: 6.5 mm (7 mm max.) for M3 screw
			Faston clip connection: type 6.35 x 0.8 mm
Tightening torque of screw clamps		N.m	0.8 (nominal recommended) 1.2 (max.) Screw heads compatible with Pozidriv, Phillips or JIS screwdrivers (size 1) and flat tipped screwdrivers (4 and 5.5 mm)
Mechanical durability (in operating cycles)			Pushbuttons: 1 000 000 Illuminated pushbuttons, spring return: 300 000 Illuminated pushbuttons, push and push-to-release: 300 000 Selector switches: 300 000 Key switches: 300 000 Emergency switching off pushbuttons: 10 000
Vibration resistance	Conforming to IEC 60068-2-6		5 gn (frequency 2 to 500 Hz)
Shock resistance	Conforming to IEC 60068-2-27		50 gn (half sine wave for 11 ms) Emergency stop: 10 gn (half sine wave for 11 ms)
Conformity to standards	Generic standards		EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-5, IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons) UL 508, CSA C22 n°14, JIS C 4520 (pending)
Terminal referencing	Conforming to EN 50005 and EN 50013		Conforms

Contact function characteristics				
Type of contact	N/C or N/O or C/O		Slow break	
Positive operation	Conforming to EN/IEC 60947-5-1 Appendix K		All functions incorporating a N/C contact are positive opening operation	
Short-circuit protection	Conforming to EN/IEC 60947-5-1	A	4 (using gG cartridge fuse conforming to IEC 269-1)	
Rated insulation voltage	Conforming to EN/IEC 60947-1	V	Ui = 250 (degree of pollution 3)	
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	kV	Uimp = 6	
Rated operational characteristics (conforming to EN/IEC 60947-5-1)	a.c. supply: utilisation category AC14, D300		Ue = 240 V and Ie = 0.3 A or Ue = 120 V and Ie = 0.6 A	
	DC13, R300		Ue = 250 V and Ie = 0.1 A or Ue = 125 V and Ie = 0.22 A	
Electrical reliability	Failure rate in accordance with IEC 60947-5-4		At 17 V and 5 mA: $\lambda \leq 10^{-6}$	
Ordinary light function characteristics				
Integral LED				
Voltage limits	At nominal voltage	V	For 24 V ~ model: 19.2...30 — and 21.6...26.4 ~ For 120 V ~ model: 100...132 ~ For 230-240 V ~ model: 195...264 ~	
Consumption	For all colours	mA	For 24 V ~ model: 20 (27 max.) For 120 V ~ model: 18 (21 max.) For 230-240 V ~ model: 16 (20 max.)	
Service life	At nominal voltage and at an ambient temperature of 25 °C	H	80 000	
Electromagnetic emission	Conforming to EN 55011		Class B	
BA 9s base fitting bulbs		Incandescent		Neon
Voltage limits	At nominal voltage	V	For 120 V ~ model: 100...132 ~ For 230 V ~ model: 195...264 ~	For direct supply model: 230 V ~: 195...264 ~
Consumption	For all colours	mA	Depending on bulb	< 5
Service life	At nominal voltage and at an ambient temperature of 25 °C	H	2 000	50 000
Electromagnetic emission	Conforming to EN 55011		Class B	



1



XB7 EA1P



XB7 EL4P



XB7 EA3133P
















XB7 EA1341P



XB7 EA2343P

## Pushbuttons

Shape of head	Type of push	Type of contact			Marking		Colour of push	Sold in lots of	Unit reference	Weight kg
		N/O	N/C	C/O	Text	Colour				
Spring return pushbuttons without marking										
	Flush	1	–	–	–	–	White	10	XB7 EA11P (1)	0.020
		–	–	1				10	XB7 EA15P (1)	0.020
		1	–	–	–	–	Black	10	XB7 EA21P (1)	0.020
		2	–	–				10	XB7 EA23P (1) ▲	0.020
		–	–	1				10	XB7 EA25P (1)	0.020
		1	–	–	–	–	Green	10	XB7 EA31P (1)	0.020
		2	–	–				10	XB7 EA33P (1) ▲	0.020
		–	–	1				10	XB7 EA35P (1)	0.020
		–	1	–	–	–	Red	10	XB7 EA42P (1)	0.020
		–	2	–				10	XB7 EA44P (1) ▲	0.020
		–	–	1				10	XB7 EA45P (1)	0.020
		1	–	–	–	–	Yellow	10	XB7 EA51P (1)	0.020
		–	–	1				10	XB7 EA55P (1) ▲	0.020
			Projecting	–	1	–	–	–	Red	10
–	2			–				10	XB7 EL44P (1) ▲	0.020
–	–			1				10	XB7 EL45P (1) ▲	0.020
Spring return pushbuttons with marking										
	Flush	1	–	–	I	White	Green	10	XB7 EA3131P (1)	0.020
		2	–	–				10	XB7 EA3331P (1)	0.020
		1	–	–	START	White	Green	10	XB7 EA3133P (1)	0.020
		2	–	–				10	XB7 EA3333P (1)	0.020
		1	–	–	MARCHE	White	Green	10	XB7 EA3142P (1)	0.020
		2	–	–				10	XB7 EA3342P (1)	0.020
		–	1	–	O	White	Red	10	XB7 EA4232P (1)	0.020
		–	–	1				10	XB7 EA4532P (1)	0.020
		–	1	–	STOP	White	Red	10	XB7 EA4234P (1)	0.020
		–	–	1				10	XB7 EA4534P (1)	0.020
		–	1	–	ARRET	White	Red	10	XB7 EA4233P (1) ▲	0.020
		–	–	1				10	XB7 EA4533P (1) ▲	0.020
		1	–	–	↑	Black	White	10	XB7 EA11341P (1)	0.020
		–	–	1				10	XB7 EA15341P (1)	0.020
		1	–	–	↓	White	Black	10	XB7 EA21343P (1)	0.020
		–	–	1				10	XB7 EA25343P (1)	0.020
	Projecting	–	1	–	O	White	Red	10	XB7 EA4232P (1)	0.020
		–	–	1				10	XB7 EA4532P (1)	0.020
		–	1	–	STOP	White	Red	10	XB7 EA4234P (1)	0.020
		–	–	1				10	XB7 EA4534P (1)	0.020
		–	1	–	ARRET	White	Red	10	XB7 EA4233P (1)	0.020
		–	–	1				10	XB7 EA4533P (1)	0.020




(1) For Faston connection version (1 x 6.35 mm and 2 x 2.8 mm), add the number "3" to the end of the reference.

Example: XB7 EA21P becomes XB7 EA21P3.

▲ Available: 1<sup>st</sup> quarter 2008



XB7 EA1P

Pushbuttons (continued)										
Shape of head	Type of push	Type of contact			Marking		Colour of push	Sold in lots of	Unit reference	Weight kg
		N/O	N/C	C/O	Text	Colour				
Push and push-to-release pushbuttons without marking										
	Flush	1	–	–	–	–	Black	10	XB7 EH21P	0.020
					–	–	Green	10	XB7 EH31P	0.020
		–	–	1	–	–	Black	10	XB7 EH25P	0.020
					–	–	Green	10	XB7 EH35P	0.020
Push and push-to-release pushbuttons with marking										
	–	1	–	–		White	Black	10	XB7 EH2137P ▲	0.020
						White	Black	10	XB7 EH2567P ▲	0.020



XB7 ED21P



XB7 EG33P

Selector/key switches									
Shape of head	Type of operator	Type of contact			Number and type of positions (1)		Sold in lots of	Unit reference	Weight kg
		N/O	N/C	C/O					
	Standard handle, black	1	–	–	2, stay put		10	XB7 ED21P (2)	0.025
		1	1	–	2, stay put		10	XB7 ED25P	0.025
		2	–	–	3, stay put		10	XB7 ED33P	0.025
	Key (key n° 455)	1	–	–	2, key withdrawal in LH position		10	XB7 EG21P	0.049
		2	–	–	3, key withdrawal in centre position		10	XB7 EG33P	0.049



XB7 ES542P

Ø 40 mm Emergency switching off mushroom head pushbuttons (3)									
Shape of head	Type of push	Type of contact			Colour of push		Sold in lots of	Unit reference	Weight kg
		N/O	N/C	C/O					
	Turn to release	–	1	–	Red		10	XB7 ES542P	0.032
		1	1	–	Red		10	XB7 ES545P	0.035
	Key release (n° 455)	–	1	–	Red		10	XB7 ES142P	0.055
		1	1	–	Red		10	XB7 ES145P	0.058

(1) The symbol "K" indicates key withdrawal position.

(2) For Faston connection version (1 x 6.35 mm and 2 x 2.8 mm), add the number "3" to the end of the reference.

Example : XB7 ED21P becomes XB7 ED21P3.


(3) Mushroom head switching off mechanical latching pushbuttons conform to standard IEC 60364-5-53 and EN/IEC 60947-5-5.


For mushroom trigger action and mechanical latching head Emergency stop pushbuttons conforming to standard EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery directive 98/37/EC and standard EN/IEC 60947-5-5, use an Emergency stop type XB5 A8888 or XB5 AS9888 from the Harmony® range.

1



XB7 EV0...P

Pilot lights with integral LED ("true" colours)							
Shape of head	Supply voltage V	Colour of lens	Sold in lots of	Unit reference	Weight kg		
	~ 24 50-60 Hz	White	10	XB7 EV01BP (1)	0.020		
		Green	10	XB7 EV03BP (1)	0.020		
		Red	10	XB7 EV04BP (1)	0.020		
		Yellow	10	XB7 EV05BP (1)	0.020		
		Blue	10	XB7 EV06BP (1)	0.020		
		Orange	10	XB7 EV08BP (1)	0.020		
	~ 120 50-60 Hz	White	10	XB7 EV01GP (1)	0.020		
		Green	10	XB7 EV03GP (1)	0.020		
		Red	10	XB7 EV04GP (1)	0.020		
		Yellow	10	XB7 EV05GP (1)	0.020		
		Blue	10	XB7 EV06GP (1)	0.020		
	~ 230-240 50-60 Hz	White	10	XB7 EV01MP (1)	0.020		
		Green	10	XB7 EV03MP (1)	0.020		
		Red	10	XB7 EV04MP (1)	0.020		
		Yellow	10	XB7 EV05MP (1)	0.020		
		Blue	10	XB7 EV06MP (1)	0.020		
		Orange	10	XB7 EV08MP (1)	0.020		



Illuminated pushbuttons with integral LED ("true" colours)								
Shape of head	Type of push	Supply voltage	Type of contact		Colour of lens	Sold in lots of	Unit reference	Weight
		V	N/O	N/C				kg
Spring return illuminated pushbuttons								
 <b>Integral LED</b>	Projecting	⎓ 24	1	—	Green	10	XB7 EW33B1P	0.022
					Red	10	XB7 EW34B1P	0.022
					Yellow	10	XB7 EW35B1P	0.022
		~ 230 50-60 Hz	1	—	Red	10	XB7 EW34B2P	0.022
					Green	10	XB7 EW33M1P	0.022
					Red	10	XB7 EW34M1P	0.022
	Projecting	⎓ 24	1	—	Yellow	10	XB7 EW35M1P	0.022
					Red	10	XB7 EW34M2P	0.022
					Push and push-to-release illuminated buttons			
					Projecting	⎓ 24	1	—
Red	10	XB7 EH04B1P	0.022					
Yellow	10	XB7 EH05B1P	0.022					
~ 230 50-60 Hz	1	—	Red	10		XB7 EH04B2P	0.022	
			Green	10		XB7 EH03M1P	0.022	
			Red	10		XB7 EH04M1P	0.022	
Projecting	⎓ 24	1	—	Yellow	10	XB7 EH05M1P	0.022	
				Red	10	XB7 EH04M2P	0.022	

(1) For Faston connection version (1 x 6.35 mm and 2 x 2.8 mm), add the number "3" to the end of the reference.  
Example: XB7 EV01BP becomes XB7 EV01BP3.



XB7 EV●●P

Pilot lights with BA 9s base fitting							
Shape of head	Supply	Description	Supply voltage V	Colour of lens	Sold in lots of	Unit reference	Weight kg
	Direct (2)	For incandescent bulb (not included) (2) BA 9s base fitting	≤ 250	White	10	XB7 EV61P (1)	0.018
				Green	10	XB7 EV63P (1)	0.018
				Red	10	XB7 EV64P (1)	0.018
				Yellow	10	XB7 EV65P (1)	0.018
				Blue	10	XB7 EV66P (1)	0.018
				Clear	10	XB7 EV67P (1)	0.018
				Orange	10	XB7 EV68P (1)	0.018
	Direct, through resistor	With incandescent bulb 130 V - 2.6 W included BA 9s base fitting	~ 230 50/60 Hz	White	10	XB7 EV71P (1)	0.020
				Green	10	XB7 EV73P (1)	0.020
				Red	10	XB7 EV74P (1)	0.020
				Yellow	10	XB7 EV75P (1)	0.020
				Blue	10	XB7 EV76P (1)	0.020
				Clear	10	XB7 EV77P (1)	0.020
				Orange	10	XB7 EV78P (1)	0.020
		For 130 V - 2.6 W bulb (not included) BA 9s base fitting (2)	~ 230 50/60 Hz	White	10	XB7 EV710P (1)	0.020
				Green	10	XB7 EV730P (1)	0.020
				Red	10	XB7 EV740P (1)	0.020
				Yellow	10	XB7 EV750P (1)	0.020
				Blue	10	XB7 EV760P (1)	0.020
				Clear	10	XB7 EV770P (1)	0.020
				Orange	10	XB7 EV780P (1) ▲	0.020

Illuminated pushbuttons with BA 9s base fitting, projecting push								
Shape of head	Supply	Type of contact		Supply voltage V	Colour of lens	Sold in lots of	Unit reference	Weight kg
		N/O	N/C					
Spring return illuminated pushbuttons								
	Direct with BA 9s base fitting neon bulb included	1	—	~ 230	Green	10	XB7 EW3341P	0.022
					Red	10	XB7 EW3441P	0.022
					Yellow	10	XB7 EW3541P	0.022
	Direct for BA 9s base fitting incandescent bulb (not included) (3)	1	—	≤ 250	Green	10	XB7 EW3361P	0.020
					Red	10	XB7 EW3461P	0.020
					Yellow	10	XB7 EW3561P	0.020
Push and push-to-release illuminated buttons								
	Direct with BA 9s base fitting neon bulb included	1	—	~ 230	Green	10	XB7 EH0341P	0.022
					Red	10	XB7 EH0441P	0.022
					Yellow	10	XB7 EH0541P	0.022
	Direct for BA 9s base fitting incandescent bulb (not included) (3)	1	—	≤ 250	Green	10	XB7 EH0361P	0.020
					Red	10	XB7 EH0461P	0.020
					Yellow	10	XB7 EH0561P	0.020

(1) For Faston connection version (1 x 6.35 mm and 2 x 2.8 mm), add the number "3" to the end of the reference.

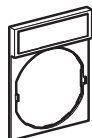
Example: **XB7 EV61P** becomes **XB7 EV61P3**.

(2) Bulb characteristics for direct supply pilot lights: 250 V max., 2.6 W max.

(3) Bulb characteristics for direct supply illuminated pushbuttons: 250 V max., 1.2 W max.

▲ Available: 1<sup>st</sup> quarter 2008

1



ZBY 2101

**Legend holder, 30 x 40 mm with legend (black or red background)****With blank legend**

Text	Sold in lots of	Unit reference	Weight kg
Without	10	ZBY 2101	0.001

**With marked legend (sold singly)**

- Start functions: white characters on black background.
- Stop functions: white characters on red background.

Text	Unit reference	Weight kg	Text	Unit reference	Weight kg
Auto	ZBY 2115	0.001	Reset	ZBY 2323	0.001
Down	ZBY 2308	0.001	Reverse	ZBY 2306	0.001
Forward	ZBY 2305	0.001	Right	ZBY 2309	0.001
Hand	ZBY 2316	0.001	Start	ZBY 2303	0.001
Inch	ZBY 2321	0.001	Stop	ZBY 2304	0.001
Left	ZBY 2310	0.001	Up	ZBY 2307	0.001
Off	ZBY 2312	0.001	O	ZBY 2146	0.001
On	ZBY 2311	0.001	I	ZBY 2147	0.001
Power on	ZBY 2326	0.001	O-I	ZBY 2178	0.001

**Circular legends for Emergency stop mushroom head pushbuttons**

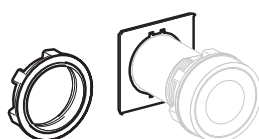
Diameter mm	Colour	Marking on yellow background	Unit reference	Weight kg
60	Yellow	–	ZBY 9101	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		NOT-AUS	ZBY 9230	0.004
		PARADA DE EMERGENCIA	ZBY 9430	0.004
		ARRESTO EMERGENZA	ZBY 9630	0.004



ZBY 9330

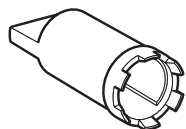
**Accessories**

Description	Colour	Sold in lots of	Unit reference	Weight kg
Anti-rotation plate	–	10	ZB5 AZ902	0.008
Fixing nut	–	10	ZB5 AZ901	0.002
Fixing nut tightening tool	–	1	ZB5 AZ905	0.016
Grooved lenses for BA 9s pilot lights	White	10	ZB7 EV01	0.002
	Green	10	ZB7 EV03	0.002
	Red	10	ZB7 EV04	0.002
	Yellow	10	ZB7 EV05	0.002
	Blue	10	ZB7 EV06	0.002
	Clear	10	ZB7 EV07	0.002
	Orange	10	ZB7 EV08	0.002



ZB5 AZ901

ZB5 AZ902



ZB5 AZ905



DL1 CE000



DL1 CS000

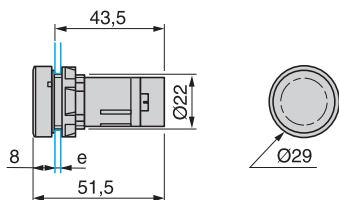
**Bulbs**

Description	Voltage	Power	Colour	Sold in lots of	Unit reference	Weight kg
	V	W				kg
Incandescent bulbs, long life	6	1.2	–	10	DL1 CB006	0.002
BA 9s base fitting	24	2.0	–	10	DL1 CE024	0.002
Ø 11 mm max. length 28 mm max.	130	2.6	–	10	DL1 CE130	0.002
Neon bulbs	220...240	–	Green	10	DL1 CS3220	0.002
BA 9s base fitting			Blue	10	DL1 CS6220	0.002
Ø 11 mm max. length 28 mm max.			Orange (1)	10	DL1 CS7220	0.002

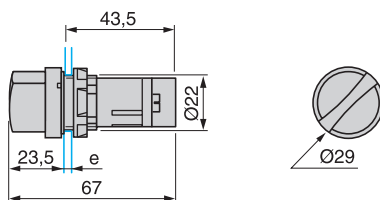
(1) For use with red, yellow or clear pilot light.

### Dimensions

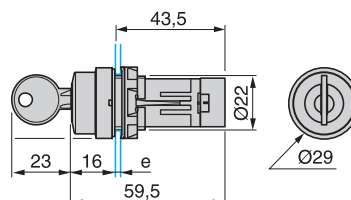
#### XB7 EA●●P, XB7 EH●●P



#### XB7 ED●●P

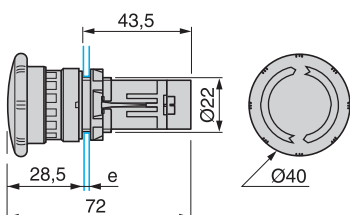


#### XB7 EG●●P

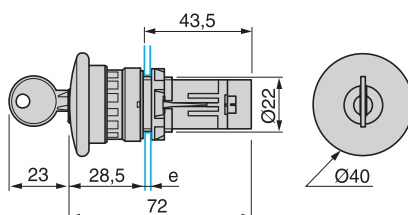


e: support panel thickness = 1 to 6 mm.

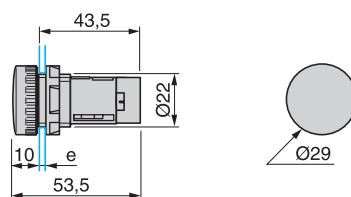
#### XB7 ES5●●P



#### XB7 ES1●●P

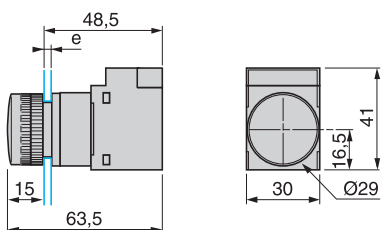


#### XB7 EV●●●P

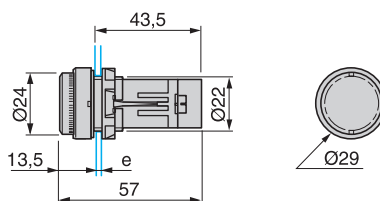


e: support panel thickness = 1 to 6 mm.

#### XB7 EV8●P

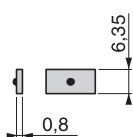


#### XB7 EW3●●●P, XB7 EH0●●●P, XB7 EL4●32P

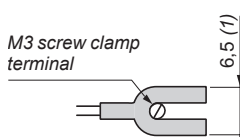


e: support panel thickness = 1 to 6 mm.

#### Faston clip connection



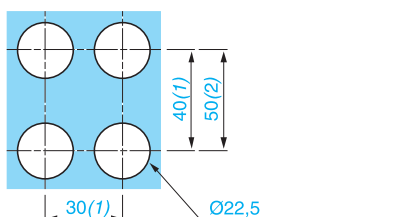
#### "U" type tag connection



(1) 6.5 recommended, 7 mm max.

### Mounting

#### Diameter of finished fixing holes



(1) Minimum value.

(2) For XB7 EV8 ●P.

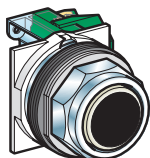
(3) Standard value: Ø 22.3 (0; + 0.4).



## Complete units

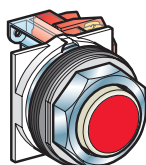
## Contact functions

## Pushbuttons, spring return



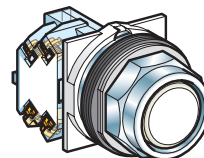
## Flush push

9001 KR1... See page 1/220



## Projecting push

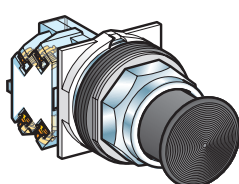
9001 KR3... See page 1/220



## Recessed push (high guard)

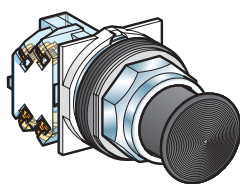
9001 KR2... See page 1/220

## Mushroom head pushbuttons



## Spring return Ø 35 or Ø 57

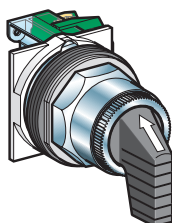
9001 KR2...H13 See page 1/220



## Latching Ø 41

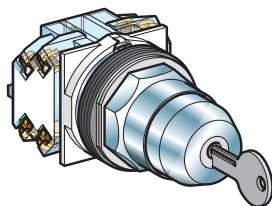
9001 KR... See page 1/220

## Selector switches, key switches and joystick controllers



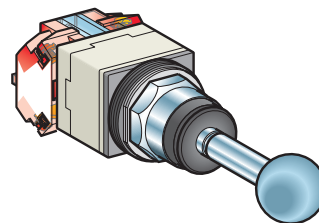
## Selector switches, long black handle

9001 KS...FBH... See page 1/221



## Key switches

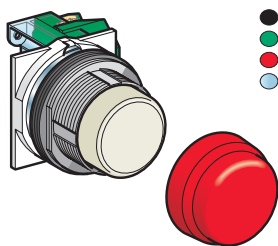
9001 KS...K...H... See page 1/221



## Joystick controllers

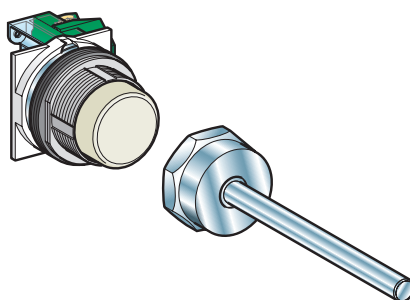
9001 K...H... See page 1/227

## Booted pushbuttons and wobblestick (with accessories)



## Booted pushbuttons

9001 KR... + 9001 KU... See pages 1/220 and 1/234

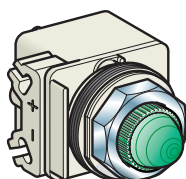


## Wobblestick

9001 KR... + 9001 K8 See pages 1/220 and 1/234

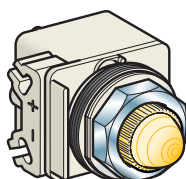
## Light functions

## Pilot lights



## BA 9s base mounted super bright LED

9001 KP... See page 1/236



## BA 9s incandescent bulb

9001 KP... See page 1/236

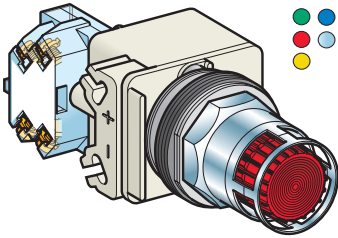
## Control and signalling units Ø 30

Harmony® 9001 K & SK range  
Pushbuttons, switches and pilot lights,  
with chromium plated metal bezel  
Complete units 9001 K

## Complete units

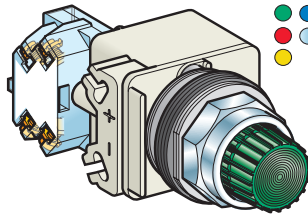
## Combined contact and light functions

## Illuminated pushbuttons, spring return



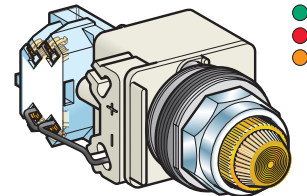
Flush push, super bright LED

9001 K●L●● See page 1/223



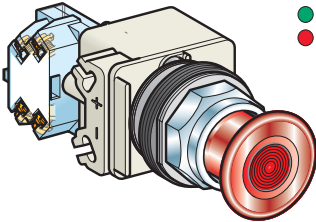
Projecting push

9001 K2L●● See page 1/224

"Push to test", projecting push,  
super bright LED

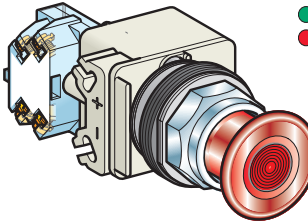
9001 KT●●●31 See page 1/225

## Ø 41 mushroom head illuminated pushbuttons, super bright LED



2-position, push-pull

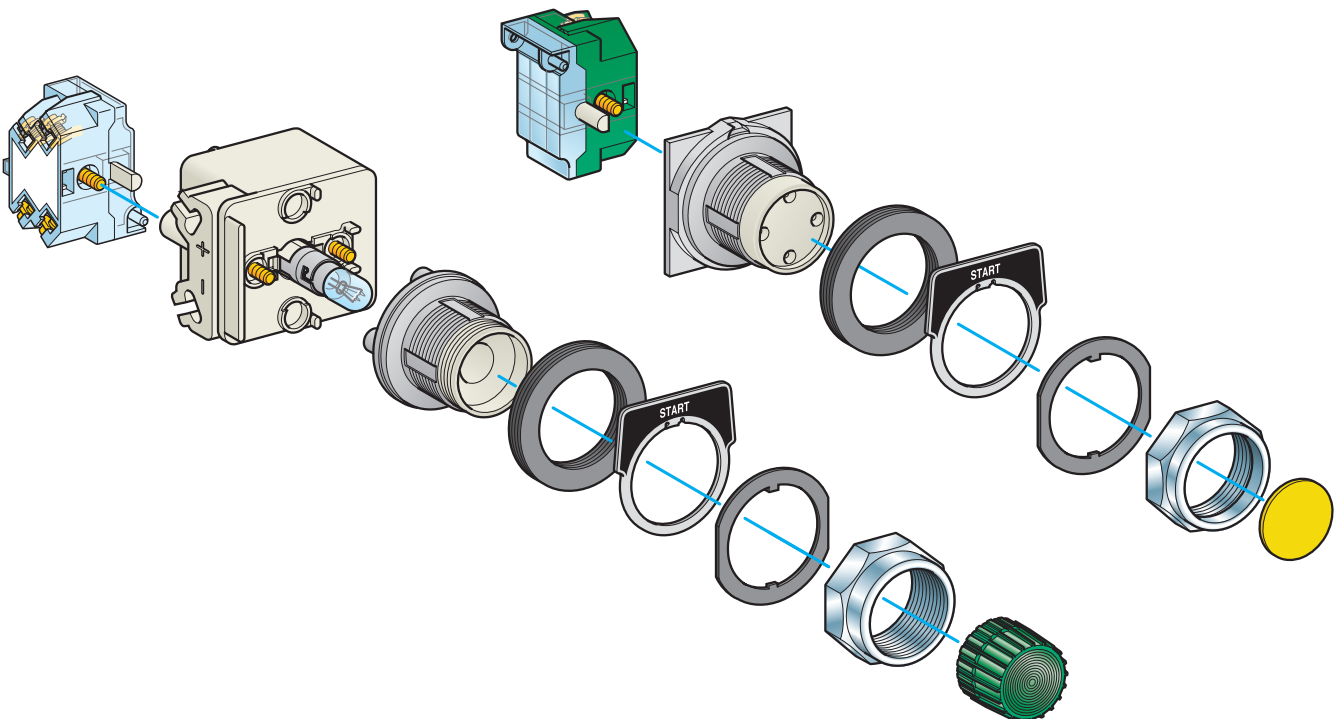
9001 KR9P●● See page 1/225



3-position, push-pull

9001 KR8P●● See page 1/225

## Separate components and accessories

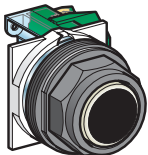




## Complete units

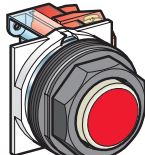
## Contact functions

## Pushbuttons, spring return



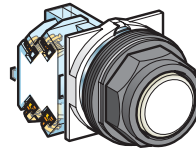
## Flush push

9001 SKR1... See page 1/228



## Projecting push

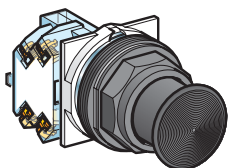
9001 SKR3... See page 1/228



## Recessed push (high guard)

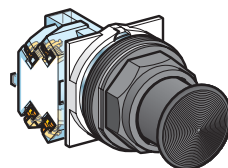
9001 SKR2... See page 1/228

## Mushroom head pushbuttons



## Spring return Ø 35 or Ø 57

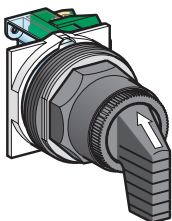
9001 SKR2...H13 See page 1/228



## Latching Ø 41

9001 SKR... See page 1/228

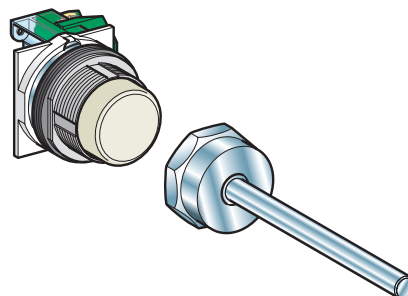
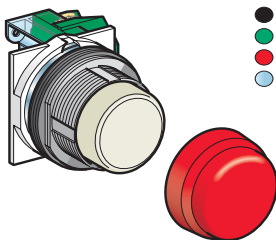
## Selector switches



## Selector switches, long black handle

9001 SKS...FBH... See page 1/230

## Booted pushbuttons and wobblestick (with accessories)



## Booted pushbuttons

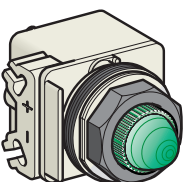
9001 SKR... + 9001 KU... See pages 1/228 and 1/234

## Wobblestick

9001 SKR... + 9001 K8 See pages 1/228 and 1/234

## Light functions

## Pilot lights



## BA 9s base mounted super bright LED

9001 SKP... See page 1/229



## BA 9s incandescent bulb

9001 SKP... See page 1/229

## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range

Pushbuttons, switches and pilot lights with double insulated bezel

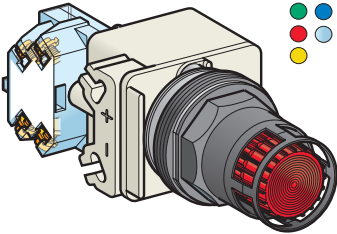
Complete units 9001 SK

1

## Complete units

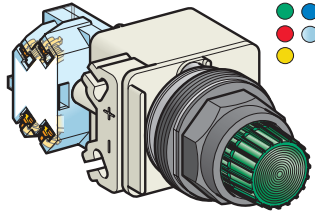
## Combined contact and light functions

## Illuminated pushbuttons, spring return



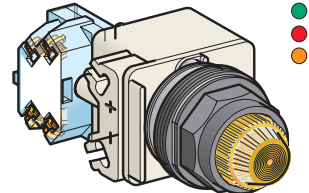
Flush push

9001 SK1L●●● See page 1/230



Projecting push

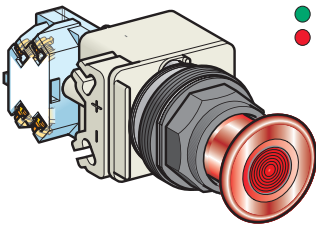
9001 SK2L●●● See page 1/231



"Push to test", projecting push

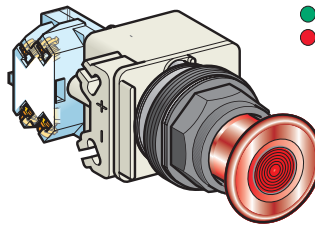
9001 SKT●●●31 See page 1/232

## Ø 41 mushroom head illuminated pushbuttons



2-position, push-pull

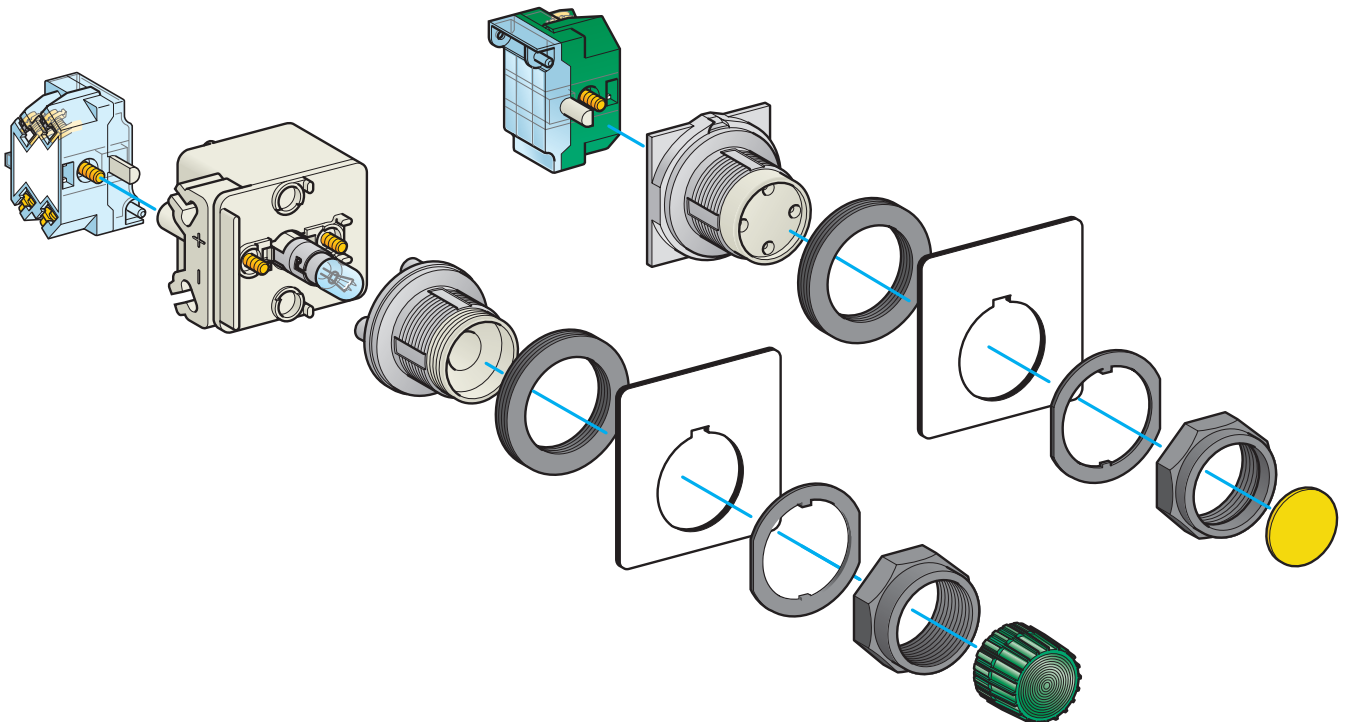
9001 SKR9P●●● See page 1/233



3-position, push-pull

9001 SKR8P●●● See page 1/233

## Separate components and accessories



## Environment

<b>Conforming to standards</b>			IEC 60947-1, IEC 60947-5-1, IEC 60947-5-4, EN 60947-5-1, JIS C 4520 and 852, UL 508, CSA C22-2 n° 14
<b>Product certifications</b>			UL508, NEMAA600-Q600
<b>Protective treatment</b> standard version			"TC"
<b>Ambient air temperature</b> around the device	Storage	°C	- 40...+ 70
	Operation	°C	- 25...+ 70
<b>Vibration resistance</b>	Conforming to IEC 68-2-6		Frequency: 2 to 500 Hz: 7gn Ford Standard EA-1
<b>Shock resistance</b>	Conforming to IEC 68-2-27		Half sine wave: 50 gn
<b>Electric shock protection</b>	Conforming to IEC 536		Class II
<b>Degree of protection</b> for the chromium metal bezel range	Conforming to IEC 529 & NF C 20-010		IP 66
	Conforming to NEMA		Types 1, 2, 3, 3R, 4, 6, 12 and 13
<b>Degree of protection</b> for the double insulated bezel range	Conforming to IEC 529 & NF C 20-010		IP 66
	Conforming to NEMA		Types 1, 2, 3, 3R, 4, 4X, 12 and 13
<b>Mechanical life</b> (In millions of operating cycles)	Pushbuttons, spring return		5
	Illuminated pushbuttons		5
	Selector switches and key switches		0.5
<b>Mounting position</b>			All positions

Electrical characteristics of contact blocks				
Rated operational characteristics	~ AC-15		3 A, 240 V	
	--- DC-13		0.55 A, 125 V	
Rated insulation voltage	Conforming to IEC 60947-1	V	Ui = 250 degree of pollution 3 (except pilot lights with incandescent bulb: degree of pollution 2)	
Rated impulse withstand voltage	Conforming to IEC 60947-1	kV	Uimp = 2.5	
Contact material	Normal environment and usage		Silver alloy	
Contact operation	"N/C" ou "N/O"		Slow break	
Positive operation	Conforming to IEC 60947-5-2	N	N/C contact(s) with positive opening operation	
Short-circuit protection	Conforming to IEC 60947-5-1	A	Cartridge fuse mounted upstream: 10	
Cabling capacity	Conforming to IEC 60947-1	mm <sup>2</sup> mm <sup>2</sup>	Screw clamp terminals (cross headed/slotted screw) Mini: 1 x 0.22 Maxi: 2 x 1.5 Recommended tightening torque: 0.8 N.m	
Thermal current	Ith	A	10	
Maximum operation current	a.c. supply: utilisation category AC-15	V A VA	Contact making capacity 120 60 7200	240 30 7200
		V A VA	Breaking capacity 120 6 720	240 3 720
	d.c. supply: utilisation category DC-13	V A	Contact making capacity and breaking capacity 125 0.55	250 0.27

## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range

Pushbuttons, switches and pilot lights

with chromium plated metal bezel

Complete units 9001 K, with screw clamp terminals

1



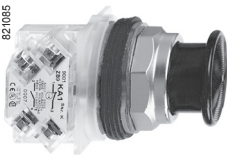
9001 KR1BH5



9001 KR3RH6



9001 KR2UH13









9001 KR24BH13




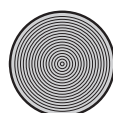



9001 KR25BH13

## Pushbuttons, spring return

Shape of head	Type of push	Type of contact			Colour	Reference	Weight kg
		 "N/O"	 "N/C"	 "C/O"			
	Flush	1	–	–	Black	9001 KR1BH5	0.121
		–	–	–	Green	9001 KR1GH5	0.121
		–	–	1	Black	9001 KR1BH13	0.121
		–	–	–	Green	9001 KR1GH13	0.121
		–	–	–	Red	9001 KR1RH13	0.121
		–	–	–	Multi-colour	9001 KR1UH13 (1)	0.121
		1	–	–	Multi-colour	9001 KR1UH5 (1)	0.121
	Projecting	–	1	–	Red	9001 KR3RH6	0.128
		–	–	1	Multi-colour	9001 KR3UH13 (1)	0.128
		1	–	–	Multi-colour	9001 KR3UH5 (1)	0.128
	Projecting (high guard)	1	–	–	Green	9001 KR2GH5	0.136
		–	–	1	Multi-colour	9001 KR2UH13 (1)	0.136
		1	–	–	Multi-colour	9001 KR2UH5 (1)	0.136

## Mushroom head pushbuttons

Shape of head	Type of push	Diameter mm	Type of contact			Colour	Reference	Weight kg
			 "N/O"	 "N/C"	 "C/O"			
	Spring return	Ø 35	–	–	1	Black	9001 KR24BH13	0.126
		Ø 35	–	–	–	Red	9001 KR24RH13	0.126
		Snap in Knob	–	1	–	Red	9001 KR4RH6	0.154
		Ø 57	–	–	1	Black	9001 KR25BH13	0.132
		Ø 57	–	–	–	Red	9001 KR25RH13	0.132
		Snap in Knob	–	1	–	Red	9001 KR5RH6	0.154
	3 positions: Mom.-push: maint.-neutral: Mom.-pull	Ø 41	–	2	–	Black	9001 KR8BH25	0.195
		Ø 41	–	–	–	Red	9001 KR8RH25	0.195
	2 positions: Maint.-push: Maint.-pull	Ø 41	–	–	1	Black	9001 KR9BH13	0.141
		Ø 41	–	–	–	Red	9001 KR9RH13	0.141
		Ø 41	–	–	1	Red	9001 KR9R94H13	0.141
		Ø 41	–	1	–	Red	9001 KR9RH6	0.141
	Push-pull	Ø 35	–	1	–	Red	9001 KR9R20H6	0.141
		Ø 57	–	1	–	Red	9001 KR9R21H6	0.141

(1) Supplied with 7 different coloured caps: black, green, red, yellow, blue, white and orange, ready for clipping-in.

## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range

Pushbuttons, switches and pilot lights

with chromium plated metal bezel

Complete units 9001 K, with screw clamp terminals



9001 KS43FB



Long handle, black



9001 KS11K1R



Key (Ronis n° 455)



Key (E10)

Selector switches and key switches (contact actuation sequence, see page 36053/3)						
Shape of head	Mount on side	Contact block (order separately)	Contact status 1 - closed 0 - open	Number and type of positions	Reference	Weight kg
	1 or 2	9001KA2		2 stay put	9001 KS11FB	0.172
	1 or 2	9001KA2		2 spring return from right to left	9001 KS34FB	0.172
	1	9001KA1		3 stay put	9001 KS43FB	0.172
	1 or 2	9001KA1		3 stay put	9001 KS46FB	0.172
	1 or 2	9001KA1		3 spring return from left to center	9001 KS63FB	0.172
	1 or 2	9001KA1		3 spring return to center	9001 KS53FB	0.172
	Side 2	9001KA1		4 stay put	9001 KS88FB	0.172
	Side 1	9001KA1				
	1 or 2	9001KA2		2 stay put	9001 KS11K1R	0.207
	1 or 2	9001KA1		2 stay put	9001 KS11K1R	0.207
	1 or 2	9001KA1		2 stay put	9001 KS11K3R	0.207
	1 or 2	9001KA1		3 stay put	9001 KS43K5R	0.234
	1 or 2	9001KA1		3 spring return to center	9001 KS53K5R	0.234

For E 10 key, remove R from reference.

Ex: 9001 KS11K1R: Ronis key  
9001 KS11K1: E10 key**Nota :** Other contact configurations are available. Please consult your Regional Sales Office.

## Control and signalling units Ø 30

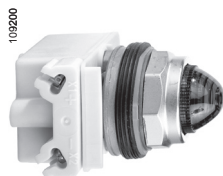
Harmony® 9001 K &amp; SK range

Pushbuttons, switches and pilot lights

with chromium plated metal bezel




Complete units 9001 K, with screw clamp terminals

1



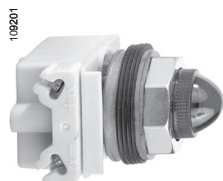
9001 KP35LGG9

## Pilot lights with BA 9s base mounted (super bright LED, included)

Shape of head	Supply voltage V	Colour	Reference	Weight kg
	~ 24	Green	9001 KP35LGG9	0.134
		Red	9001 KP35LRR9	0.134
		Amber	9001 KP35LYA9	0.134
		Blue	9001 KP35LLL9	0.134
		White	9001 KP35LWW9	0.134
	~ 48	Green	9001 KP36LGG9	0.134
		Red	9001 KP36LRR9	0.134
		Amber	9001 KP36LYA9	0.134
		Blue	9001 KP36LLL9	0.134
		White	9001 KP36LWW9	0.134
	~ 120	Green	9001 KP38LGG9	0.134
		Red	9001 KP38LRR9	0.134
		Amber	9001 KP38LYA9	0.134
		Blue	9001 KP38LLL9	0.134
		White	9001 KP38LWW9	0.134

## Pilot lights with BA 9s, incandescent bulb (bulb included)

Shape of head	Supply	Supply voltage V	Colour	Reference	Weight kg
	Direct supply for BA 9s bulb (included)	~ 12	Green	9001 KP32G9	0.134
			Red	9001 KP32R9	0.134
			Amber	9001 KP32A9	0.134
			Blue	9001 KP32L9	0.134
		~ 24	Green	9001 KP35G9	0.134
			Red	9001 KP35R9	0.134
			Amber	9001 KP35A9	0.134
			Blue	9001 KP35L9	0.134
		~ 48	Green	9001 KP36G9	0.134
			Red	9001 KP36R9	0.134
			Amber	9001 KP36A9	0.134
			Blue	9001 KP36L9	0.134
		~ 120	Green	9001 KP38G9	0.134
			Red	9001 KP38R9	0.134
			Amber	9001 KP38A9	0.134
			Blue	9001 KP38L9	0.134
	Via integral transformer for BA 9s 6 V bulb (included)	~ 120	Green	9001 KP1G9	0.210
			Red	9001 KP1R9	0.210
			Amber	9001 KP1A9	0.210
			Blue	9001 KP1L9	0.210
		~ 230	Green	9001 KP7G9	0.210
			Red	9001 KP7R9	0.210
			Amber	9001 KP7A9	0.210
			Blue	9001 KP7L9	0.210
		~ 380	Green	9001 KP5G9	0.210
			Red	9001 KP5R9	0.210
			Amber	9001 KP5A9	0.210
			Blue	9001 KP5L9	0.210
		~ 600	Green	9001 KP6G9	0.210
			Red	9001 KP6R9	0.210
			Amber	9001 KP6A9	0.210
			Blue	9001 KP6L9	0.210



9001 KP38R9



9001 KP7L9






## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range

Pushbuttons, switches and pilot lights

with chromium plated metal bezel

Complete units 9001 K, with screw clamp terminals

Illuminated pushbuttons, spring return, push-push (super bright LED, included)						
Shape of head	Description supply	Type of contact	Supply voltage V	Colour	Reference	Weight kg
		 "C/O"				
<b>Extended metallic guard</b>						
	<b>BA 9s base mounted LED (included)</b>	1	~ 24	Red	<b>9001 K3L35LRRH13</b>	0.175
				Green	<b>9001 K3L35LGGH13</b>	0.175
				Amber	<b>9001 K3L35LYAH13</b>	0.175
		1	~ 48	Red	<b>9001 K3L36LRRH13</b>	0.175
				Green	<b>9001 K3L36LGGH13</b>	0.175
				Amber	<b>9001 K3L36LYAH13</b>	0.175
		1	~ 120	Red	<b>9001 K3L38LRRH13</b>	0.175
				Green	<b>9001 K3L38LGGH13</b>	0.175
				Amber	<b>9001 K3L38LYAH13</b>	0.175
	<b>Direct supply for BA 9s incandescent bulb (included)</b>	1	~ 24	Red	<b>9001 K3L35RH13</b>	0.175
				Green	<b>9001 K3L35GH13</b>	0.175
				Amber	<b>9001 K3L35AH13</b>	0.175
		1	~ 48	Red	<b>9001 K3L36RH13</b>	0.175
				Green	<b>9001 K3L36GH13</b>	0.175
				Amber	<b>9001 K3L36AH13</b>	0.175
		1	~ 120	Red	<b>9001 K3L38RH13</b>	0.175
				Green	<b>9001 K3L38GH13</b>	0.175
				Blue	<b>9001 K3L38LH13</b>	0.175
	<b>Via integral transformer for BA 9s 6 V incandescent bulb (included)</b>	1	~ 120	Red	<b>9001 K3L1RH13</b>	0.250
				Green	<b>9001 K3L1GH13</b>	0.250
				Amber	<b>9001 K3L1AH13</b>	0.250
		1	~ 230	Red	<b>9001 K3L7RH13</b>	0.250
				Green	<b>9001 K3L7GH13</b>	0.250
				Amber	<b>9001 K3L7AH13</b>	0.250
	<b>Full guard in plastic</b>	1	~ 24	Red	<b>9001 K1L35LRRH13</b>	0.166
				Green	<b>9001 K1L35LGGH13</b>	0.166
				Amber	<b>9001 K1L35LYAH13</b>	0.166
		1	~ 48	Red	<b>9001 K1L36LRRH13</b>	0.166
				Green	<b>9001 K1L36LGGH13</b>	0.166
				Amber	<b>9001 K1L36LYAH13</b>	0.166
		1	~ 120	Red	<b>9001 K1L38LRRH13</b>	0.166
				Green	<b>9001 K1L38LGGH13</b>	0.166
				Amber	<b>9001 K1L38LYAH13</b>	0.166



9001 K1L35LGGH13



## Control and signalling units Ø 30

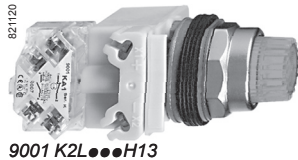
Harmony® 9001 K &amp; SK range

Pushbuttons, switches and pilot lights







with chromium plated metal bezel

Complete units 9001 K, with screw clamp terminals

1



## Illuminated pushbuttons, spring return, projecting push

Shape of head	Type of contact			Supply voltage V	Colour	Reference	Weight kg
	 "N/O" late break	 "N/C"	 "C/O"				
BA 9s base mounted LED (included)							
	—	—	1	≈ 24	Red	9001 K2L35LRRH13	0.166
					Green	9001 K2L35LGGH13	0.166
					Amber	9001 K2L35LYAH13	0.166
	—	—	1	≈ 48	Red	9001 K2L36LRRH13	0.166
					Green	9001 K2L36LGGH13	0.166
					Amber	9001 K2L36LYAH13	0.166
	—	—	1	≈ 120	Red	9001 K2L38LRRH13	0.166
					Green	9001 K2L38LGGH13	0.166
					Amber	9001 K2L38LYAH13	0.166
Direct supply for BA 9s incandescent bulb (included)							
	—	—	1	≈ 24	Red	9001 K2L35RH13	0.166
					Green	9001 K2L35GH13	0.166
					Amber	9001 K2L35AH13	0.166
					Blue	9001 K2L35LH13	0.166
					White	9001 K2L35WH13	0.166
	—	—	1	≈ 48	Red	9001 K2L36RH13	0.166
					Green	9001 K2L36GH13	0.166
					Amber	9001 K2L36AH13	0.166
					Blue	9001 K2L36LH13	0.166
					White	9001 K2L36WH13	0.166
	—	—	1	≈ 120	Red	9001 K2L38RH13	0.166
					Green	9001 K2L38GH13	0.166
					Amber	9001 K2L38AH13	0.166
					Blue	9001 K2L38LH13	0.166
					White	9001 K2L38WH13	0.166
Via integral transformer for BA 9s incandescent bulb (included)							
	—	—	1	≈ 230	Red	9001 K2L7RH13	0.140
					Green	9001 K2L7GH13	0.140
					Amber	9001 K2L7AH13	0.140
					Blue	9001 K2L7LH13	0.140
					White	9001 K2L7WH13	0.140




## Control and signalling units Ø 30

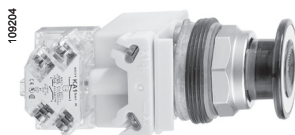
## Harmony® 9001 K & SK range

Pushbuttons, switches and pilot lights  
with chromium plated metal bezel

Complete units 9001 K, with screw clamp terminals

**Illuminated mushroom head pushbuttons** (super bright LED, included)


Shape of head	Diameter mm	Type of contact			Supply voltage V	Colour	Reference	Weight kg
								
		"N/O" I. break	"N/O"	"C/O"				

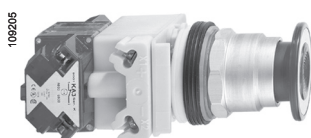


9001 KR9P.35/ GGH13



**2 position stay put pushbuttons. Direct supply** for BA 9s incandescent bulb (included)


 Ø 41	Order contacts separately	≈ 24	Green	<b>9001 KR9P35LGG</b>	0.186
			Red	<b>9001 KR9P35LRR</b>	0.186
		≈ 48	Green	<b>9001 KR9P36LGG</b>	0.186
			Red	<b>9001 KR9P36LRR</b>	0.186
		≈ 120	Green	<b>9001 KR9P38LGG</b>	0.186
			Red	<b>9001 KR9P38LRR</b>	






9001 KR8P35LRRH25

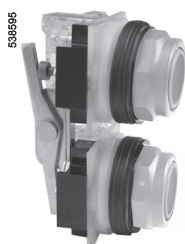


3 position pushbuttons (pull: spring return, center: stay put, push: spring return)

	Ø 41	Order contacts separately	⌞ 24	Green	9001 KR8P35LGG	0.254
				Red	9001 KR8P35LRR	0.254
			⌞ 48	Green	9001 KR8P36LGG	0.254
				Red	9001 KR8P36LRR	0.254
			⌞ 120	Green	9001 KR8P38LGG	0.254
				Red	9001 KR8P38LRR	0.254


## Mechanically interlocked pushbuttons

Shape of head	Type of push	Type of contact	Colour	Reference	Weight kg
		 "N/O" I break			
		 "N/O"			
		 "C/O"			






9001 KR11UH1H1




	Both maintained	—	—	1	Multi-colour	<b>9001 KR11UH1H1</b> (1)	0.540
	One spring return and one latching	—	—	1	Multi-colour	<b>9001 KR12UH1H1</b> (1)	0.540

**Illuminated "Push to test" pushbuttons, spring return (super bright LED, included)**

Shape of head	Type of push	Type of contact			Supply voltage V	Colour	Reference	Weight kg
								
		"N/O" I. break	"N/O"	"C/O"				

### Direct supply



	Projecting push	1	—	—	≈ 24	Green	<b>9001 KT35LGG31</b>	0.235
						Red	<b>9001 KT35LRR31</b>	0.235
						Amber	<b>9001 KT35LLYA31</b>	0.235
		1	—	—	≈ 48	Green	<b>9001 KT36LGG31</b>	0.235
						Red	<b>9001 KT36LRR31</b>	0.235
						Amber	<b>9001 KT36LYA31</b>	0.235
		1	—	—	≈ 120	Green	<b>9001 KT38LGG31</b>	0.235
						Red	<b>9001 KT38LRR31</b>	0.235
						Amber	<b>9001 KT38LYA31</b>	0.235

(1) Supplied with 7 different coloured caps: black, green, red, yellow, blue, white and orange, ready for clipping-in.

## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range

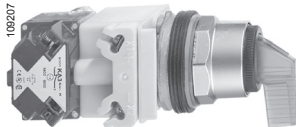









Pushbuttons, switches and pilot lights

with chromium plated metal bezel

Complete units 9001 K, with screw clamp terminals

1

## Illuminated selector switches with long handle (super bright LED, included)

Shape of head	Supply	Mount on side	Contact block (1)	Contact status 1 - closed 0 - open	Supply voltage V	Number and type of positions	Colour	Reference	Weight kg
	Supplied with 24 V light module (super bright LED)	1 or 2	9001KA2		~ 24	2 stay put	Green	9001 K11J35LGFG	0.245
							Red	9001 K11J35LRFR	0.245
							Amber	9001 K11J35LYFA	0.245
		1 or 2	9001KA2		~ 24	2 spring return from right to left	Green	9001 K34J35LGFG	0.245
							Red	9001 K34J35LRFR	0.245
							Amber	9001 K34J35LYFA	0.245
		1 or 2	9001KA1		~ 24	3 stay put	Green	9001 K43J35LGFG	0.245
							Red	9001 K43J35LRFR	0.245
							Amber	9001 K43J35LYFA	0.245
		Side 2	9001KA1		~ 24	3 stay put	Green	9001 K46J35LGFG	0.245
							Red	9001 K46J35LRFR	0.245
		Side 1	9001KA1				Amber	9001 K46J35LYFA	0.245
		1 or 2	9001KA1		~ 24	3 spring return to center	Green	9001 K53J35LGFG	0.245
							Red	9001 K53J35LRFR	0.245
							Amber	9001 K53J35LYFA	0.245
		1 or 2	9001KA1		~ 24	3 spring return from left to center	Green	9001 K63J35LGFG	0.245
							Red	9001 K63J35LRFR	0.245
							Amber	9001 K63J35LYFA	0.245
		Side 2	9001KA1		~ 24	4 stay put	Green	9001 K88J35LGFG	0.245
							Red	9001 K88J35LRFR	0.245
		Side 1	9001KA1				Amber	9001 K88J35LYFA	0.245

(1) Order and install listed contact block for noted contact sequence.

Other contact sequences are available. Please consult your Regional Sales Office.




## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range

Pushbuttons, switches and pilot lights  
with chromium plated metal bezel

Complete units 9001 K, with screw clamp terminals

## Illuminated mushroom head pushbuttons, push-pull, Ø 41 red

Shape of head	Supply	Type of contact			Supply voltage V	Reference	Weight kg
							
		"N/C" I.break	"N/C"	"C/O"			

## 2 position stay put pushbuttons



**Direct supply**  
for BA 9s  
incandescent  
bulb (included)

1

1

—

≈ 24

9001 KR9P35RH25

0.168

≈ 120

9001 KR9P38RH25

0.168

**Via integral  
transformer**  
for BA 9s 6 V  
incandescent  
bulb (included)

1

1

—

≈ 230

9001 KR9P7RH25

0.245

## 3 position pushbuttons (pull: spring return, center: stay put, push: spring return)



**Direct supply**  
for BA 9s  
incandescent  
bulb (included)

1

1

—

≈ 24

9001 KR8P35RH25

0.168

≈ 120

9001 KR8P38RH25

0.168

**Via integral  
transformer**  
for BA 9s 6 V  
incandescent  
bulb (included)

1

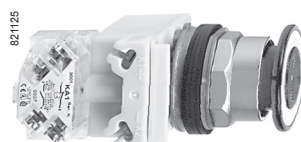
1

—

≈ 230







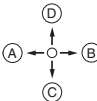

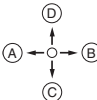
9001 KR8P7RH25

0.245



9001 KR8P35RH25

## Joystick controllers (80 mm long operating shaft)

Shape of head	Description	Type of contact			Direction	Reference	Weight kg
							
		"N/O"	"N/C"	"C/O"			
	<b>3 positions</b> spring return	—	2	—		<b>9001 K31H8</b>	0.372
		Order contacts separately				<b>9001 K31</b>	0.372
		2	—	—		<b>9001 K71H7</b>	0.372
		Order contacts separately				<b>9001 K71</b>	0.372
	<b>5 positions</b> spring return	—	—	2		<b>9001 K35H2</b>	0.372
		Order contacts separately				<b>9001 K35</b>	0.372
	<b>3 positions</b> stay put	Order contacts separately				<b>9001 K73</b>	0.372
		Order contacts separately				<b>9001 K34</b>	0.372
	<b>5 positions</b> spring return with latch (1)	Order contacts separately				<b>9001 K34</b>	0.372

(1) Latch button must be depressed before joystick will operate.



9001 K31H8

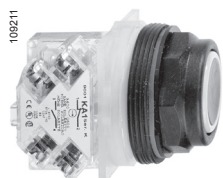
## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range

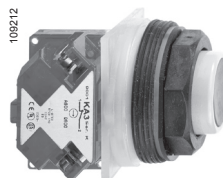
Pushbuttons, switches and pilot lights with double insulated bezel

Complete units 9001 SK, with screw clamp terminals

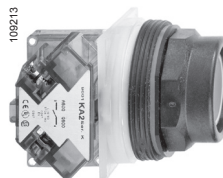
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9001 SKR1GH13



9001 SKR3RH6









9001 SKR2GH5








9001 SKR24BH13

## Pushbuttons, spring return

Shape of head	Type of push	Type of contact			Colour	Reference	Weight kg
		 "N/O"	 "N/C"	 "C/O"			
	Flush	1	—	—	Black	9001 SKR1BH5	0.086
		—	—	—	Green	9001 SKR1GH5	0.086
		—	—	1	Black	9001 SKR1BH13	0.086
		—	—	—	Green	9001 SKR1GH13	0.086
		—	—	—	Red	9001 SKR1RH13	0.086
		—	—	—	Multi-colour	9001 SKR1UH13 (1)	0.086
		1	—	—	Multi-colour	9001 SKR1UH5 (1)	0.086
	Projecting	—	1	—	Red	9001 SKR3RH6	0.070
		—	—	1	Multi-colour	9001 SKR3UH13 (1)	0.070
		1	—	—	Multi-colour	9001 SKR3UH5 (1)	0.070
	Projecting (high guard)	1	—	—	Green	9001 SKR2GH5	0.090
		—	—	1	Multi-colour	9001 SKR2UH13 (1)	0.090
		1	—	—	Multi-colour	9001 SKR2UH5 (1)	0.090

## Mushroom head pushbuttons

Shape of head	Type of push	Diameter mm	Type of contact			Colour	Reference	Weight kg
			 "N/C" l. break	 "N/C"	 "C/O"			
	Spring return	Ø 35	—	—	1	Black	9001 SKR24BH13	0.095
					Red	9001 SKR24RH13	0.095	
		Ø 35 Snap in Knob	—	1	—	Red	9001 SKR4RH6	0.095
		Ø 57	—	—	1	Black	9001 SKR25BH13	0.102
					Red	9001 SKR25RH13	0.102	
		Ø 57 Snap in Knob	—	1	—	Red	9001 SKR5RH6	0.102
	3 positions: Mom. -push: maint. -neutral: Mom. -pull							
		Ø 41	1	1	—	Black	9001 SKR8BH25	0.159
						Red	9001 SKR8RH25	0.159
	2 positions: Maint. -push: Maint. -pull							
		Ø 41	—	—	1	Black	9001 SKR9BH13	0.159
						Red	9001 SKR9RH13	0.159
	Push-pull		—	1	—	Red	9001 SKR9RH6	0.159
		Ø 35	—	1	—	Red	9001 SKR9R20H6	0.159
		Ø 57	—	1	—	Red	9001 SKR9R21H6	0.164

(1) Supplied with 7 different coloured caps: black, green, red, yellow, blue, white and orange, ready for clipping-in.

## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range


Pushbuttons, switches and pilot lights with double insulated bezel

Complete units 9001 SK, with screw clamp terminal



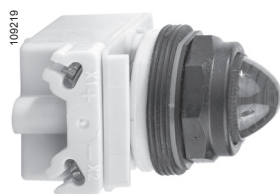
9001 SKP35LGG9

## Pilot lights with BA 9s base mounted (super bright LED included)

Shape of head	Supply voltage V	Colour	Reference	Weight kg
	~ 24	Green	9001 SKP35LGG9	0.082
		Red	9001 SKP35LRR9	0.082
		Amber	9001 SKP35LYA9	0.082
		Blue	9001 SKP35LLL9	0.082
		White	9001 SKP35LWW9	0.082
	~ 48	Green	9001 SKP36LGG9	0.082
		Red	9001 SKP36LRR9	0.082
		Amber	9001 SKP36LYA9	0.082
		Blue	9001 SKP36LLL9	0.082
		White	9001 SKP36LWW9	0.082
	~ 120	Green	9001 SKP38LGG9	0.082
		Red	9001 SKP38LRR9	0.082
		Amber	9001 SKP38LYA9	0.082
		Blue	9001 SKP38LLL9	0.082
		White	9001 SKP38LWW9	0.082

## Pilot lights with BA 9s, incandescent bulb (bulb included)

Shape of head	Supply	Supply voltage V	Colour	Reference	Weight kg
	Direct supply for BA 9s bulb (included)	~ 12	Green	9001 SKP32G9	0.082
			Red	9001 SKP32R9	0.082
			Amber	9001 SKP32A9	0.082
			Blue	9001 SKP32L9	0.082
		~ 24	Green	9001 SKP35G9	0.082
			Red	9001 SKP35R9	0.082
			Amber	9001 SKP35A9	0.082
			Blue	9001 SKP35L9	0.082
		~ 48	Green	9001 SKP36G9	0.082
			Red	9001 SKP36R9	0.082
			Amber	9001 SKP36A9	0.082
			Blue	9001 SKP36L9	0.082
		~ 120	Green	9001 SKP38G9	0.082
			Red	9001 SKP38R9	0.082
			Amber	9001 SKP38A9	0.082
			Blue	9001 SKP38L9	0.082
	Via integral transformer for BA 9s 6 V bulb (included)	~ 120	Green	9001 SKP1G9	0.181
			Red	9001 SKP1R9	0.181
			Amber	9001 SKP1A9	0.181
			Blue	9001 SKP1L9	0.181
		~ 230	Green	9001 SKP7G9	0.181
			Red	9001 SKP7R9	0.181
			Amber	9001 SKP7A9	0.181
			Blue	9001 SKP7L9	0.181
		~ 380	Green	9001 SKP5G9	0.181
			Red	9001 SKP5R9	0.181
			Amber	9001 SKP5A9	0.181
			Blue	9001 SKP5L9	0.181
		~ 600	Green	9001 SKP6G9	0.181
			Red	9001 SKP6R9	0.181
			Amber	9001 SKP6A9	0.181
			Blue	9001 SKP6L9	0.181



9001 SKP38R9



9001 SKP7L9

## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range





















Pushbuttons, switches and pilot lights with double insulated bezel




Complete units 9001 SK, with screw clamp terminal

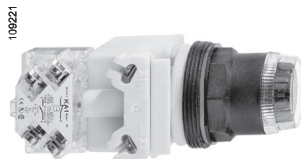
1



9001 SKS43FB

Selector switches (contact actuation sequence, see page 1/239)						
Shape of head	Mount on side	Contact block (order separately)	Contact status 1 - closed 0 - open	Number and type of positions	Reference	Weight kg
 Long handle, black	1 or 2	9001KA2 		2 stay put 	9001 SKS11FB	0.059
	1 or 2	9001KA2 		2 spring return from right to left 	9001 SKS34FB	0.059
	1 or 2	9001KA1 		3 stay put 	9001 SKS43FB	0.059
	1 or 2	9001KA1 		3 spring return from left to center 	9001 SKS63FB	0.059
	1 or 2	9001KA1 		3 spring return to center 	9001 SKS53FB	0.059
	Side 1	9001KA1 		4 stay put	9001 SKS88FB	0.059
	Side 2	9001KA1 				

Illuminated pushbuttons, spring return, flush push (super bright LED included)						
Shape of head	Supply	Type of contact	Supply voltage V	Colour	Reference	Weight kg
 Full guard in plastic	BA 9s base mounted 	 "C/O"	~ 24	Red	9001 SK1L35LRR	0.181
				Green	9001 SK1L35LGG	0.181
				Amber	9001 SK1L35LYA	0.181
		1	~ 48	Red	9001 SK1L36LRR	0.181
				Green	9001 SK1L36LGG	0.181
				Amber	9001 SK1L36LYA	0.181
		1	~ 120	Red	9001 SK1L38LRR	0.181
				Green	9001 SK1L38LGG	0.181
				Amber	9001 SK1L38LYA	0.181



9001 SK1L35LGG






## Control and signalling units Ø 30

Harmony® 9001 K &amp; SK range

Pushbuttons, switches and pilot lights with double insulated bezel

Complete units 9001 SK, with screw clamp terminal

## Illuminated pushbuttons, spring return, projecting push

Shape of head	Type of contact			Supply voltage V	Colour	Reference	Weight kg
							
	"N/O" late break	"N/C"	"C/O"				

## BA 9s base mounted LED (included)



—	—	—	≈ 24	Red	<b>9001 SK2L35LRR</b>	0.181
Order contact block separately				Green	<b>9001 SK2L35LGG</b>	0.181
				Amber	<b>9001 SK2L35LYA</b>	0.181
—	—	—	≈ 48	Red	<b>9001 SK2L36LRR</b>	0.181
Order contact block separately				Green	<b>9001 SK2L36LGG</b>	0.181
				Amber	<b>9001 SK2L36LYA</b>	0.181
—	—	—	≈ 120	Red	<b>9001 SK2L38LRR</b>	0.181
Order contact block separately				Green	<b>9001 SK2L38LGG</b>	0.181
				Amber	<b>9001 SK2L38LYA</b>	0.181

## Direct supply for BA 9s incandescent bulb (included)



—	—	1	≈ 24	Red	<b>9001 SK2L35RH13</b>	0.181
				Green	<b>9001 SK2L35GH13</b>	0.181
				Amber	<b>9001 SK2L35AH13</b>	0.181
				Blue	<b>9001 SK2L35LH13</b>	0.181
				White	<b>9001 SK2L35WH13</b>	0.181
—	—	1	≈ 48	Red	<b>9001 SK2L36RH13</b>	0.181
				Green	<b>9001 SK2L36GH13</b>	0.181
				Amber	<b>9001 SK2L36AH13</b>	0.181
				Blue	<b>9001 SK2L36LH13</b>	0.181
				White	<b>9001 SK2L36WH13</b>	0.181
—	—	1	≈ 120	Red	<b>9001 SK2L38RH13</b>	0.181
				Green	<b>9001 SK2L38GH13</b>	0.181
				Amber	<b>9001 SK2L38AH13</b>	0.181
				Blue	<b>9001 SK2L38LH13</b>	0.181
				White	<b>9001 SK2L38WH13</b>	0.181

## Via integral transformer for BA 9s incandescent bulb (included)



—	—	1	≈ 230	Red	<b>9001 SK2L7RH13</b>	0.226
				Green	<b>9001 SK2L7GH13</b>	0.226
				Amber	<b>9001 SK2L7AH13</b>	0.226
				Blue	<b>9001 SK2L7LH13</b>	0.226
				White	<b>9001 SK2L7WH13</b>	0.226



9001 SK2L36GH13



## Control and signalling units Ø 30




Harmony® 9001 K &amp; SK range

Pushbuttons, switches and pilot lights with double insulated bezel

Complete units 9001 SK, with screw clamp terminal

1

## Illuminated mushroom head pushbuttons (super bright LED, included)

Shape of head	Diameter mm	Supply voltage V	Type of contact			Colour	Reference	Weight kg
								
			"N/O" I. break	"N/O"	"C/O"			

## 2 position stay put pushbuttons. Direct supply for BA 9s incandescent bulb (included)



9001 SKR9P35LGG



Ø 41

≈ 24

Order contact block separately

Green

9001 SKR9P35LGG

0.226

Red

9001 SKR9P35LRR

0.226

≈ 48

Order contact block separately

Green

9001 SKR9P36LGG

0.226

Red

9001 SKR9P36LRR

0.226

≈ 120

Order contact block separately

Green

9001 SKR9P38LGG

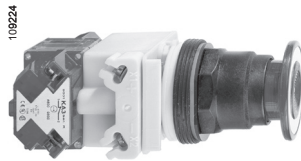
0.226

Red

9001 SKR9P38LRR

0.226

## 3 position pushbuttons (pull: spring return, center: stay put, push: spring return)



9001 SKR8P35LRR



Ø 41

≈ 24

Order contact block separately

Green

9001 SKR8P35LGG

0.226

Red

9001 SKR8P35LRR

0.226

≈ 48

Order contact block separately

Green

9001 SKR8P36LGG

0.226

Red

9001 SKR8P36LRR

0.226

≈ 120

Order contact block separately

Green

9001 SKR8P38LGG





0.226

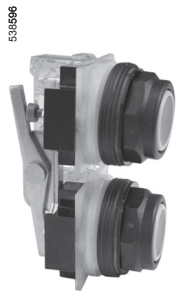
Red

9001 SKR8P38LRR

0.226




## Mechanically interlocked pushbuttons

Shape of head	Type of push	Type of contact			Colour	Reference	Weight kg
							
		"N/O" I. break	"N/O"	"C/O"			
	Both maintained	—	—	1	Multi-colour	9001 SKR11UH1H1 (1)	0.290
	One spring return and one latching	—	—	1	Multi-colour	9001 SKR12UH1H1 (1)	0.290



9001 SKR11UH1H1

## Illuminated "Push to test" pushbuttons, spring return, projecting push (super bright LED included)

Shape of head	Supply voltage V	Type of contact			Colour	Reference	Weight kg
							
		"N/O" I. break	"N/O"	"C/O"			

## Direct supply



≈ 24

—

—

1

Green

9001 SKT35LGG31

0.195

Red

9001 SKT35LRR31

0.195

Amber

9001 SKT35LYA31

0.195

≈ 48

—

—

1

Green

9001 SKT36LGG31

0.195

Red

9001 SKT36LRR31

0.195

Amber

9001 SKT36LYA31

0.195

≈ 120

—

—

1

Green

9001 SKT38LGG31

0.195

Red

9001 SKT38LRR31

0.195

Amber

9001 SKT38LYA31

0.195

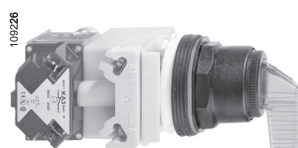
(1) Supplied with 7 different coloured caps: black, green, red, yellow, blue, white and orange, ready for clipping-in.

## Control and signalling units Ø 30




















Harmony® 9001 K &amp; SK range






Pushbuttons, switches and pilot lights with double insulated bezel

Complete units 9001 SK, with screw clamp terminal



9001 SK46J35LYFA

Illuminated selector switches with long handle (super bright LED included)								
Shape of head	Supply	Mount on side	Contact block (1)	Contact status 1 - closed 0 - open	Supply voltage and type of positions	Number of positions	Reference	Weight kg
	Supplied with 24 V light module	1 or 2	9001KA2			~ 24	2 stay put	Green <b>9001 SK11J35LGFG</b> 0.190 Red <b>9001 SK11J35LRFR</b> 0.190 Amber <b>9001 SK11J35LYFA</b> 0.190
		1 or 2	9001KA2			~ 24	2 spring return from right to left	Green <b>9001 SK34J35LGFG</b> 0.190 Red <b>9001 SK34J35LRFR</b> 0.190 Amber <b>9001 SK34J35LYFA</b> 0.190
		1 or 2	9001KA1			~ 24	3 stay put	Green <b>9001 SK43J35LGFG</b> 0.190 Red <b>9001 SK43J35LRFR</b> 0.190 Amber <b>9001 SK43J35LYFA</b> 0.190
		Side 2	9001KA1			~ 24	3 stay put	Green <b>9001 SK46J35LGFG</b> 0.190 Red <b>9001 SK46J35LRFR</b> 0.190
		Side 1	9001KA1					Amber <b>9001 SK46J35LYFA</b> 0.190
		1 or 2	9001KA1			~ 24	3 spring return to center	Green <b>9001 SK53J35LGFG</b> 0.190 Red <b>9001 SK53J35LRFR</b> 0.190 Amber <b>9001 SK53J35LYFA</b> 0.190
		1 or 2	9001KA1			~ 24	3 spring return from left to center	Green <b>9001 SK63J35LGFG</b> 0.190 Red <b>9001 SK63J35LRFR</b> 0.190 Amber <b>9001 SK63J35LYFA</b> 0.190
		Side 2	9001KA1			~ 24	4 stay put	Green <b>9001 SK88J35LGFG</b> 0.190 Red <b>9001 SK88J35LRFR</b> 0.190
		Side 1	9001KA1					Amber <b>9001 SK88J35LYFA</b> 0.190

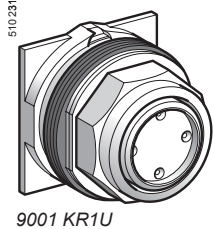
Illuminated mushroom head pushbuttons, push-pull, Ø 41 red							
Shape of head	Supply	Type of contact			Supply voltage V	Reference	Weight kg
							
		"N/C" I. break	"N/C"	"C/O"			
2 position stay put pushbuttons							
	Direct supply for BA 9s bulb (2)	1	1	—	≈ 24	<b>9001 SKR9P35RH25</b>	0.226
					≈ 120	<b>9001 SKR9P38RH25</b>	0.226
	Via integral transformer for BA 9s bulb (2)	1	1	—	≈ 230	<b>9001 SKR9P7RH25</b>	0.226
3 position pushbuttons (pull: spring return, center: stay put, push: spring return)							
	Direct supply for BA 9s bulb (2)	1	1	—	≈ 24	<b>9001 SKR8P35RH25</b>	0.226
					≈ 120	<b>9001 SKR8P38RH25</b>	0.226
	Via integral transformer for BA 9s bulb (2)	1	1	—	≈ 230	<b>9001 SKR8P7RH25</b>	0.226

(1) Order and install listed contact block for noted contact sequence.

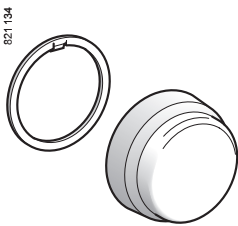
Other contact sequences are available. Please consult your Regional Sales Office.

(2) Incandescent bulb, included.

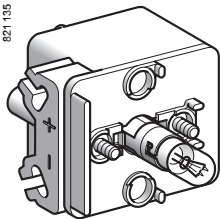
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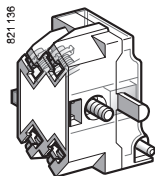
9001 KR1U



9001 KU●



9001 KM●



9001 KA1

## Heads for spring return pushbuttons - unmarked

Shape of head	Type of push	Colour	Reference	Weight kg
<b>For the metal range</b>				
	Flush	Multi-colour (1)	9001 KR1U	0.087
	Projecting	Multi-colour (1)	9001 KR3U	0.090
	Recessed (high guard)	Multi-colour (1)	9001 KR2U	0.087

## For the plastic range

	Flush	Multi-colour (1)	9001 SKR1U	0.050
	Projecting	Multi-colour (1)	9001 SKR3U	0.050
	Recessed (high guard)	Multi-colour (1)	9001 SKR2U	0.050

## Accessories for heads 9001 KR●U

Description	Application	Colour	Reference	Weight kg
Rubber boots	Pushbuttons	Black	9001 KU1	0.027
		Green	9001 KU5	0.027
		Red	9001 KU2	0.027
		Clear	9001 KU7	0.027
Rod for spring return wobblestick	Pushbuttons	Chromium plated	9001 K8	0.120

## Light blocks for pilot lights and illuminated pushbuttons

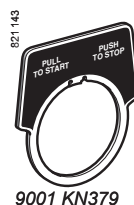
Supply	Light source	Type	Supply voltage V	Colour	Reference	Weight kg
Direct supply via integral resistance	BA 9s bulb (included)	Incandescent	~ 12	–	9001 KM32	0.050
			~ 24	–	9001 KM35	0.050
			~ 120	–	9001 KM38	0.050
			~ 230	–	9001 KM25	0.050
Direct supply via integral transformer	BA 9s 6 V bulb (included)	Incandescent	~ 120	–	9001 KM1	0.144
			~ 230	–	9001 KM7	0.144
			~ 380 - 480	–	9001 KM5	0.144
Shallow depth	24 V bulb	Incandescent	~ 24 - 28	–	9001 KM55	0.115
			~ 24 - 28	Red	9001 KM55LR	0.115
			~ 24 - 28	Green	9001 KM55LG	0.115
	120 V bulb	Incandescent	~ 24 - 28	Yellow	9001 KM55LY	0.115
			~ 110 - 120	–	9001 KM58	0.115
			~ 110 - 120	Red	9001 KM58LR	0.115
			~ 110 - 120	Green	9001 KM58LG	0.115
			~ 110 - 120	Yellow	9001 KM58LY	0.115
			~ 110 - 120	Red	9001 KM58LR	0.115
			~ 110 - 120	Green	9001 KM58LG	0.115
			~ 110 - 120	Yellow	9001 KM58LY	0.115

## Contact blocks with protected terminals

Description		Type of contact			Reference	Weight kg
Standard contact blocks	–	–	–	1	9001 KA1 (2)	0.027
		1	–	–	9001 KA2 (2)	0.023
		–	1	–	9001 KA3 (2)	0.023
Late break contact blocks	–	–	–	1	9001 KA4	0.027
		–	1	–	9001 KA5	0.023
Early break contact blocks	–	1	–	–	9001 KA6	0.023
Logic reed contact blocks	Hermetically sealed	1	–	–	9001 KA41 (2)	0.045
		–	1	–	9001 KA42 (2)	0.045
		–	–	1	9001 KA43 (2)	0.045
Power reed contact blocks	Hermetically sealed	1	–	1	9001 KA51 (2)	0.045
		–	1	–	9001 KA52 (2)	0.045
		–	–	1	9001 KA53 (2)	0.045

(1) Includes set of 7 different coloured caps for customer installation: black, green, red, yellow, blue, white and orange.

(2) It is possible to mount up to 3 levels of contact blocks (maximum of 6 contacts blocks) on 9001 K and 9001 SK references (see page 1/239).



## Aluminium legend plates for metal range

## Unmarked

Description	Background colour	Reference	Weight kg
Size 1 (40 x 43 mm)	Black	9001 KN200	0.005
	Red	9001 KN200R	0.005
Size 2 (44 x 50 mm)	Black	9001 KN300	0.005
	Red	9001 KN300R	0.005

## Marked

Description	Legend plate colour	Marking	Reference	Weight kg
English text (40 x 43 mm)	Black or red background	START	9001 KN201	0.005
		STOP (red background)	9001 KN202	0.005
		ON	9001 KN203	0.005
		OFF (red background)	9001 KN204	0.005
		EMERGENCY STOP (red background)	9001 KN205	0.005
		FORWARD	9001 KN206	0.005
		REVERSE	9001 KN207	0.005
		CLOSE	9001 KN208	0.005
		OPEN	9001 KN209	0.005
		DOWN	9001 KN210	0.005
		UP	9001 KN211	0.005
		SLOW	9001 KN213	0.005
		HIGH	9001 KN214	0.005
		LOW	9001 KN215	0.005
		RESET	9001 KN233	0.005
		OFF-ON	9001 KN245	0.005
		OPEN-CLOSE	9001 KN246	0.005
		HAND-OFF-AUTO	9001 KN260	0.005
		PULL TO START/PUSH TO STOP	9001 KN279	0.005
English text (44 x 50 mm)	Black	PULL TO START/PUSH TO STOP	9001 KN379	0.005
French text (40 x 43 mm)	Black or red background	MARCHE	9001 KN201F	0.005
		ARRET (red background)	9001 KN202F	0.005
		AVANT	9001 KN206F	0.005
		ARRIERE	9001 KN207F	0.005
		FERME	9001 KN208F	0.005
		OUVERT	9001 KN209F	0.005
		BAS	9001 KN210F	0.005
		HAUT	9001 KN211F	0.005
		VITE	9001 KN214F	0.005
		LENT	9001 KN215F	0.005
		REARMEMENT	9001 KN223F	0.005

## Plastic legend plates for plastic range

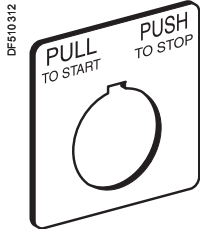
## Unmarked

Description	Background colour	Reference	Weight kg
Size 1 (57 x 57 mm)	White	9001 KN100WP	0.005
	Black	9001 KN100BP	0.005

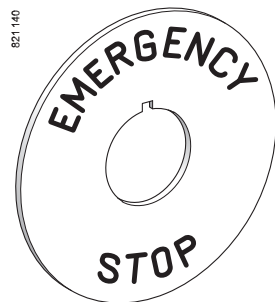
## Marked

Description	Legend plate colour	Marking	Reference	Weight kg
English text (57 x 57 mm)	White	START	9001 KN101WP	0.005
		STOP	9001 KN102WP	0.005
		ON	9001 KN103WP	0.005
		OFF	9001 KN104WP	0.005
		EMERGENCY STOP	9001 KN105WP	0.005
		FORWARD	9001 KN106WP	0.005
		REVERSE	9001 KN107WP	0.005
		CLOSE	9001 KN108WP	0.005

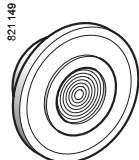
1



9001 KN179WP



9001 KN8330



9001 G22



9001 31

## Plastic legend plates for plastic range (continued)

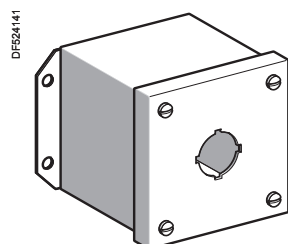
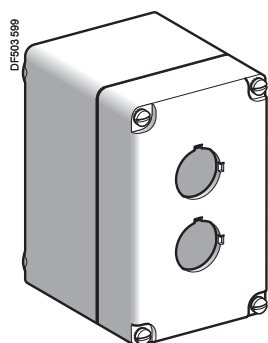
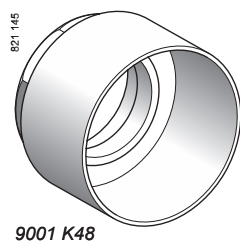
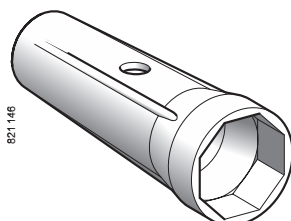
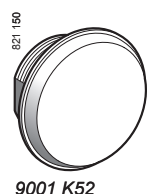
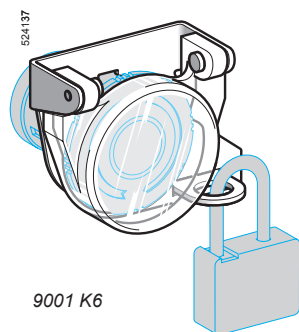
Marked				
Description	Legend plate colour	Marking	Reference	Weight kg
English text (57 x 57 mm)	White background	OPEN	9001 KN109WP	0.005
		DOWN	9001 KN110WP	0.005
		UP	9001 KN111WP	0.005
		SLOW	9001 KN113WP	0.005
		HIGH	9001 KN114WP	0.005
		LOW	9001 KN115WP	0.005
		RESET	9001 KN133WP	0.005
		OPEN-CLOSE	9001 KN146WP	0.005
		OFF-ON	9001 KN145WP	0.005
		HAND-OFF-AUTO	9001 KN160WP	0.005
		PULL TO START/PUSH TO STOP	9001 KN179WP	0.005
		MARCHE	9001 KN101WPF	0.005
		ARRET (red background)	9001 KN102WPF	0.005
French text (57 x 57 mm)	White background	AVANT	9001 KN106WPF	0.005
		ARRIERE	9001 KN107WPF	0.005
		FERME	9001 KN108WPF	0.005
		OUVERT	9001 KN109WPF	0.005
		BAS	9001 KN110WPF	0.005
		HAUT	9001 KN111WPF	0.005
		VITE	9001 KN114WPF	0.005
		LENT	9001 KN115WPF	0.005
		TIRER POUR MARCHE / POUSSER POUR ARRET	9001 KN179WPF	0.005

## Emergency stop legend plate (plastic)

Description	Legend plate colour	Marking	Reference	Weight kg
Ø 76	Yellow	EMERGENCY STOP	9001 KN7330	0.005
Ø 90	Yellow	EMERGENCY STOP	9001 KN8330	0.005

## Caps and knobs

Description	Application	Color	Reference	Weight kg
Ø 41 mushroom knob with set screw	For non-illuminated pushbutton	Red	9001 K94R	0.005
Ø 57 mushroom knob with set screw	For non-illuminated pushbutton	Red	9001 K93R	0.005
Ø 41 mushroom knob	For illuminated pushbutton	Red	9001 R22	0.005
Ø 57 mushroom knob	For illuminated pushbutton	Red	9001 R21	0.005
Ø 41 lens caps	Mushroom head illuminated pushbutton	Yellow	9001 Y22	0.005
		Green	9001 G22	0.005
Standard lens	For pilot light	Red	9001 R9	0.005
		Green	9001 G9	0.005
		Blue	9001 L9	0.005
		Yellow	9001 Y9	0.005
		White	9001 W9	0.005
		Clear	9001 C9	0.005
Lens caps "Fresnel lens"	For pilot light	Red	9001 R31	0.005
		Green	9001 G31	0.005
		Blue	9001 L31	0.005
		Yellow	9001 Y31	0.005
		White	9001 W31	0.005
		Clear	9001 C31	0.005
Standard knob	For selector switch	Black	9001 B11	0.005
		Red	9001 R8	0.005
		Green	9001 G8	0.005
		Blue	9001 L8	0.005
		Yellow	9001 Y8	0.005
		White	9001 W8	0.005
Long knob	For selector switch	Black	9001 B25	0.005
		Red	9001 R24	0.005
		Green	9001 G24	0.005
		Blue	9001 L24	0.005
		Yellow	9001 Y24	0.005
		White	9001 W24	0.005



## Other accessories

Description	Application	Colour	Reference	Weight kg
Super bright LED bulbs	24 V / 9001 ●●●35L (1) or 48 V / 9001 ●●●36L (1) or 120 V / 9001 ●●●38L (1)	Red (1)	6508805210	0.010
		Green (1)	6508805212	0.010
		Amber (1)	6508805211	0.010
		Blue (1)	6508805213	0.010
		White (1)	6508805214	0.010
LED bulbs	120 V / 9001 ●●●1L (1) or 230 V / 9001 ●●●7L (1) or 380 V / 9001 ●●●5L (1)	Red (1)	6508805201	0,010
		Yellow (1)	6508805202	0,010
		Green (1)	6508805203	0,010
Incandescent bulbs	Resistor light blocks	~ 12 V - code "32" (2)	2550101037	0.002
		~ 24 V - code "35" (2)	2550101002	0.002
		~ 48 V - code "36" (2)	2550101025	0.002
		~ 120 V - code "38" (2)	2550101027	0.002
		~ 240 V - code "25" (2)	2550101027	0.002
	Transformer light blocks	~ 120 V 50/60 Hz - code "1" (2)	2550101020	0.002
		~ 230 V 50/60 Hz - code "7" (2)	2550101020	0.002
		~ 380 V 50/60 Hz - code "5" (2)	2550101020	0.002
		~ 600 V 50/60 Hz - code "6" (2)	2550101020	0.002
Closing plates	—	Grey	9001 K51	0.020
		Metal	9001 K52	0.028
Screwdriver (3)	—	—	9001 K69	0.150
Tightening wrench	Fixing nut	—	9001 K95	0.064
	Boot	—	9001 K1	0.150
Guards:	Mushroom head pushbutton	Ø 35 mm —	9001 K48	0.028
		Ø 41 mm —	9001 K56YM	0.036
		Ø 60 mm —	9001 K685	0.030
Set of 7 different coloured caps	Pushbutton	Black, green, red, yellow, blue, white, orange	9001 T8U	0.005
Bulb extractor	—	—	XBF X13	0.005
Padlock attachment	For selector switch	—	9001 K7	0.150
	For pushbutton	—	9001 K6	0.150
	For Emergency stop	—	9001 K62	0.150
Alternate action module	Push on - Push off module (4)	—	9001 K85	0.025

## Enclosures

Type	Conduit threads	NEMA ratings	N° of 30 mm holes	Reference	Weight kg
Aluminium	3/4"	1, 3, 4, 6, 12, 13	1	9001 KY1	1.170
			2	9001 KY2	1.279
			3	9001 KY3	1.597
			4	9001 KY4	1.846
	14 mm	1, 3, 4, 6, 12, 13	1	9001 TY1	1.170
			2	9001 TY2	1.279
			3	9001 TY3	1.597
			4	9001 TY4	1.846
Stainless steel	3/4" Knockout	1, 3, 4, 4X, 13	1	9001 KYSS1	1.061
			2	9001 KYSS2	1.370
			3	9001 KYSS3	1.715
			4	9001 KYSS4	1.855
Plastic	3/4" Knockout	1, 3, 4, 4X, 13	1	9001 SKY1	0.690
			2	9001 SKY2	0.690
			3	9001 SKY3	0.790

(1) LED light modules require the color cap color and the LED be the same or use a clear color cap.

(2) Voltage Assembly Codes.

(3) Screwdriver with special tip for mounting contact blocks.

(4) N/O circuits require KA4 or KA6 contact blocks.



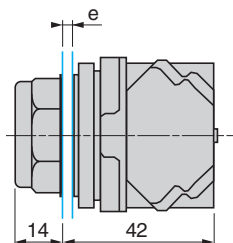
## Dimensions

### Pushbuttons

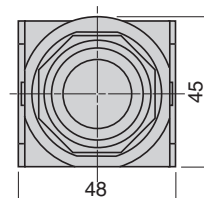
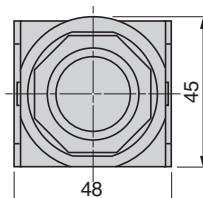
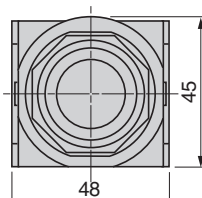
Flush push 9001 KR1●●●,  
9001 SKR1●●●

Projecting push  
9001 KR3●●●,  
9001 SKR3●●●

Projecting push with high  
guard 9001 KR2●●●,  
9001 SKR2●●●



e: panel thickness 1 to 6 mm

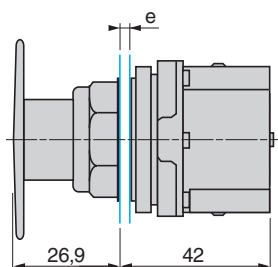


### Mushroom head pushbuttons

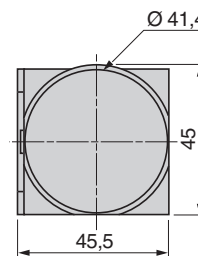
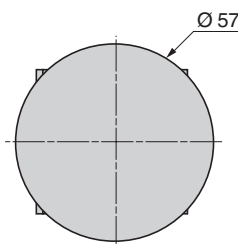
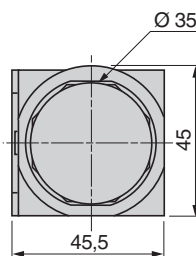
Spring return  
9001 KR24●H13,  
9001 SKR24●H13

9001 KR25●H13,  
9001 SKR25●H13,  
9001 KR5R05H6,  
9001 SKR5R05H6

Push-pull 9001 KR9R●●●,  
9001 SKR9R●●●

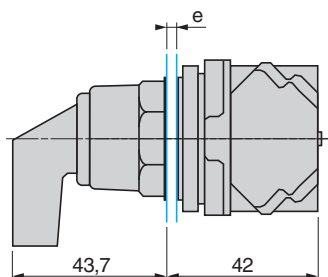


e: panel thickness 1 to 6 mm

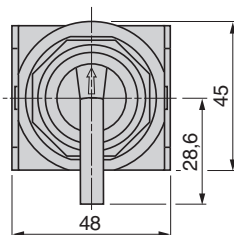


### Selector switches

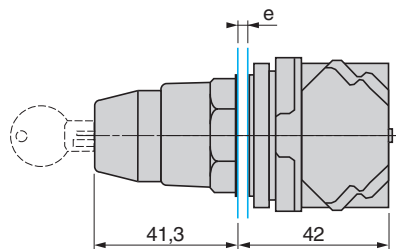
Long handle 9001 KS●●FBH●● and 9001 SKS●●FBH●●



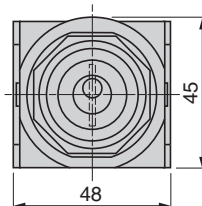
e: panel thickness 1 to 6 mm



Key switches 9001 KS●●K●●● ( for the chromium metal bezel range only)

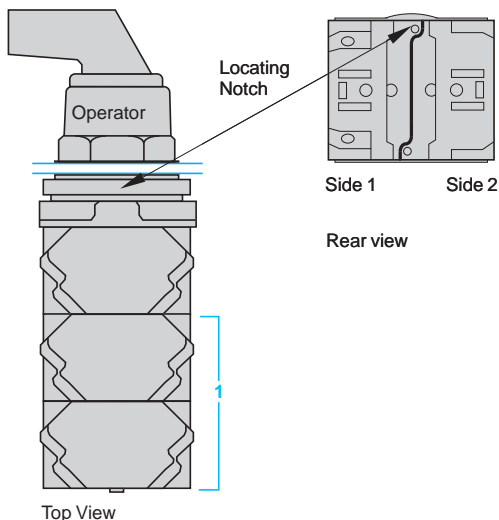


e: panel thickness 1 to 6 mm



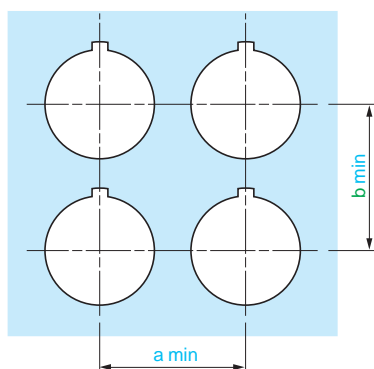
## Mounting

### Contact block mounting position



1 It is possible to mount up to 3 levels of contacts blocks (maximum of 6 contacts blocks) on 9001 K and 9001 SK references. For additional contact blocks to be installed by the customer, see page 1/234.

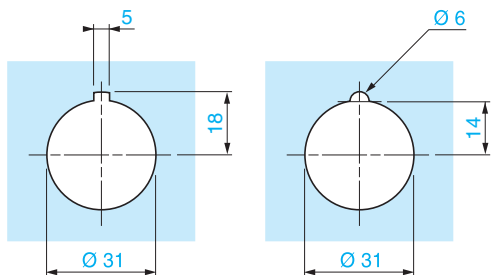
### Panel cut-out



Type of 9001 K unit	Legend plate	a	b
All units except Ø 57 mushroom head pushbuttons	9001 KN2●●	57,2	44,5
	9001 KN3●●	57,2	50,8
Ø 57 mushroom head pushbuttons	9001 KN2●●	57,2	57,2
	9001 KN3●●	57,2	57,2

### Individual cut-outs detail

#### 2 alternatives

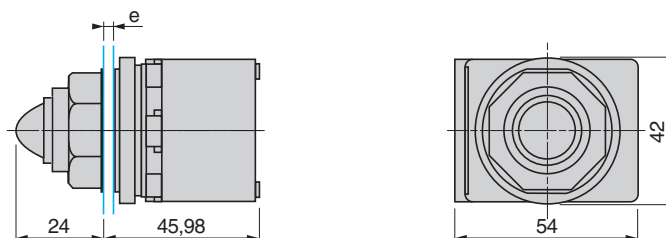




### Dimensions

#### Pilot lights

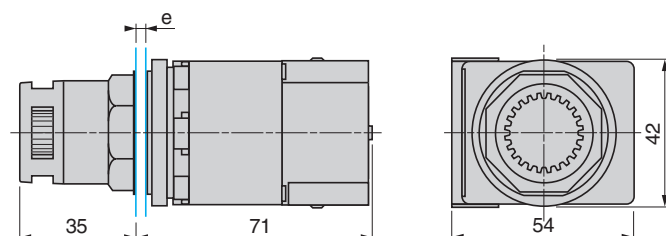
With BA 9s bulb 9001 KP●●● and 9001 SKP●●●



e: panel thickness 1 to 6 mm

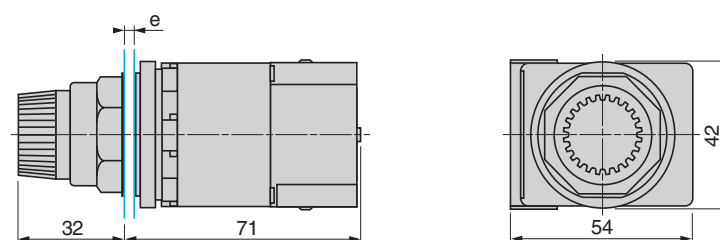
#### Illuminated pushbuttons, spring return

Flush push 9001 K3L●●●●●H13



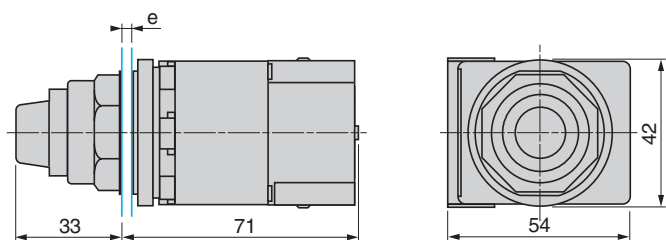
e: panel thickness 1 to 6 mm

Projecting push 9001 K2L●●●●●H13 and 9001 SK2L●●●●●H13



e: panel thickness 1 to 6 mm

"Push to test", projecting push 9001 KT●●●●●31 and 9001 SKT●●●●●31

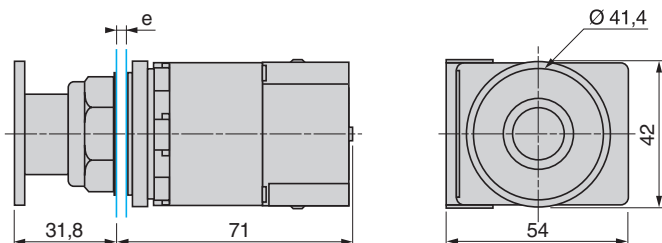


e: panel thickness 1 to 6 mm

## Dimensions

### Illuminated mushroom head pushbuttons

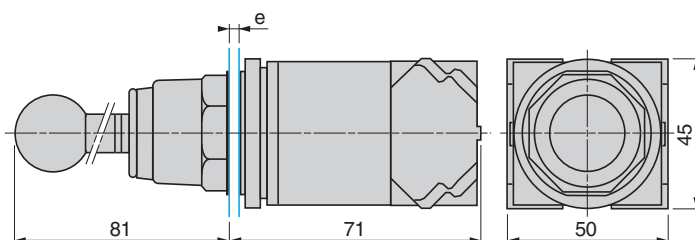
9001 KR●P●●● and 9001 SKR●P●●●



e: panel thickness 1 to 6 mm

### Joystick controllers ( for the chromium metal bezel range only)

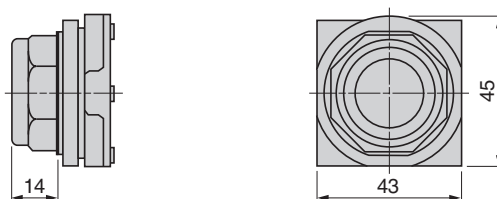
9001 K●●H●



e: panel thickness 1 to 6 mm

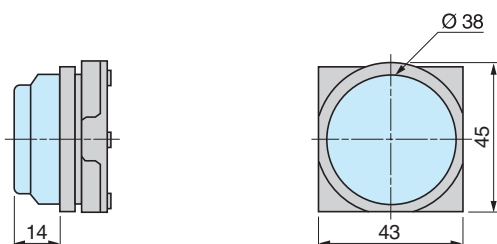
### Heads for spring return pushbuttons

9001 KR●U and 9001 SKR●U



### Boots for pushbuttons

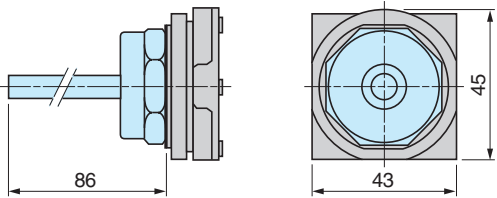
9001 KU●



Dimensions

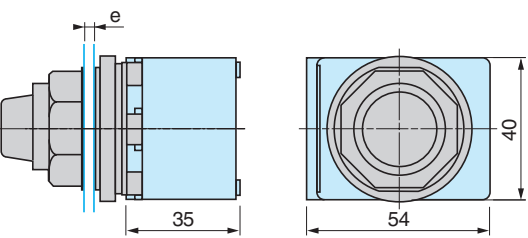
Rod for wobblestick

9001 K8



Light blocks for pilot lights and illuminated pushbuttons

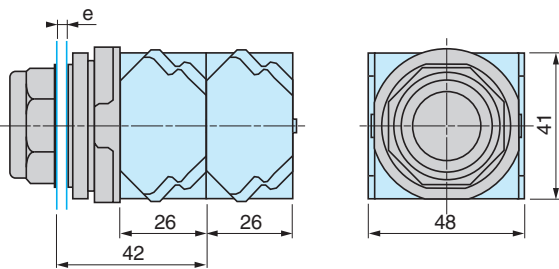
9001 KM●



e: panel thickness 1 to 6 mm

Contact blocks for pushbuttons (including illuminated)

9001 KA●

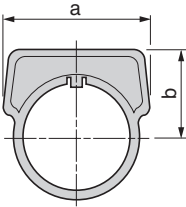


e: panel thickness 1 to 6 mm

It is not possible to mount complementary contact blocks type 9001 KA4 to KA6.

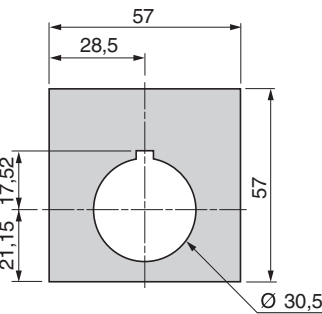
Legend plates

Aluminium plates 9001 KN●●●



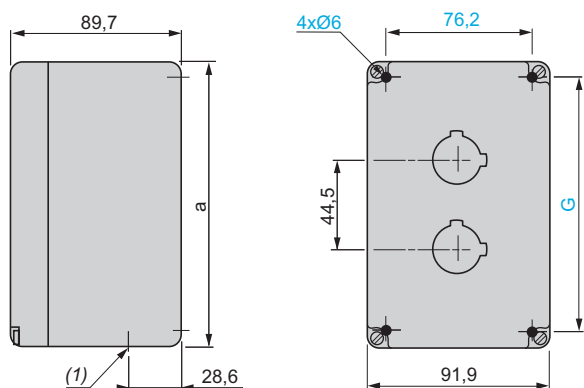
	a	b
9001 KN2●●	41,3	24,6
9001 KN3●●	44,5	31,4

Plastic plates 9001 KN1●●●



#### Dimensions

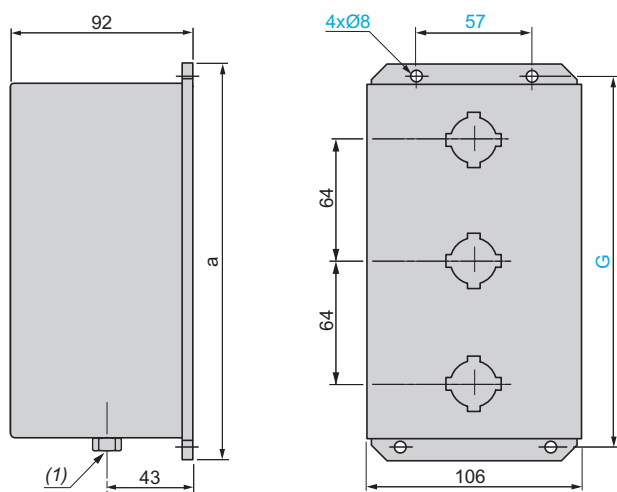
##### 9001 KY● and 9001 TY● control stations



(1) Conduit thread: 9001 KY●: 3/4". 9001 TY●: 14 mm.

	a	G
9001 KY1, TY1	101.6	69.9
9001 KY2, TY2 (as shown)	146.1	114.3
9001 KY3, TY3	177.8	158.8
9001 KY4, TY4	235.0	203.2

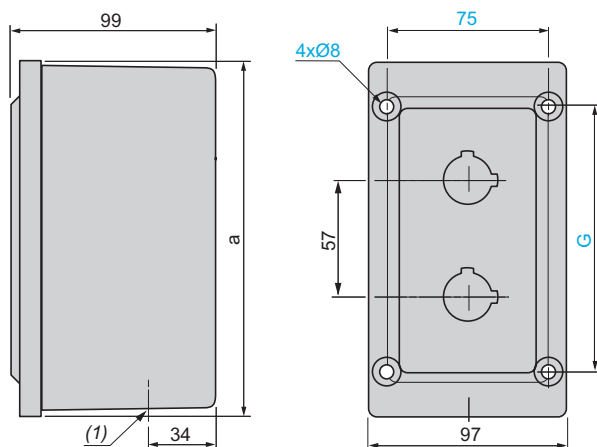
##### 9001 KYSS● control stations



(1) Knockout conduit thread: 3/4".

	a	G
9001 KYSS1	133	117
9001 KYSS2	197	181
9001 KYSS3 (as shown)	260	244
9001 KYSS4	324	308

##### 9001 SKY● control stations



(1) Knockout conduit thread: 3/4".

	a	G
9001 SKY1	169	124
9001 SKY2 (as shown)	169	124
9001 SKY3	226	181