

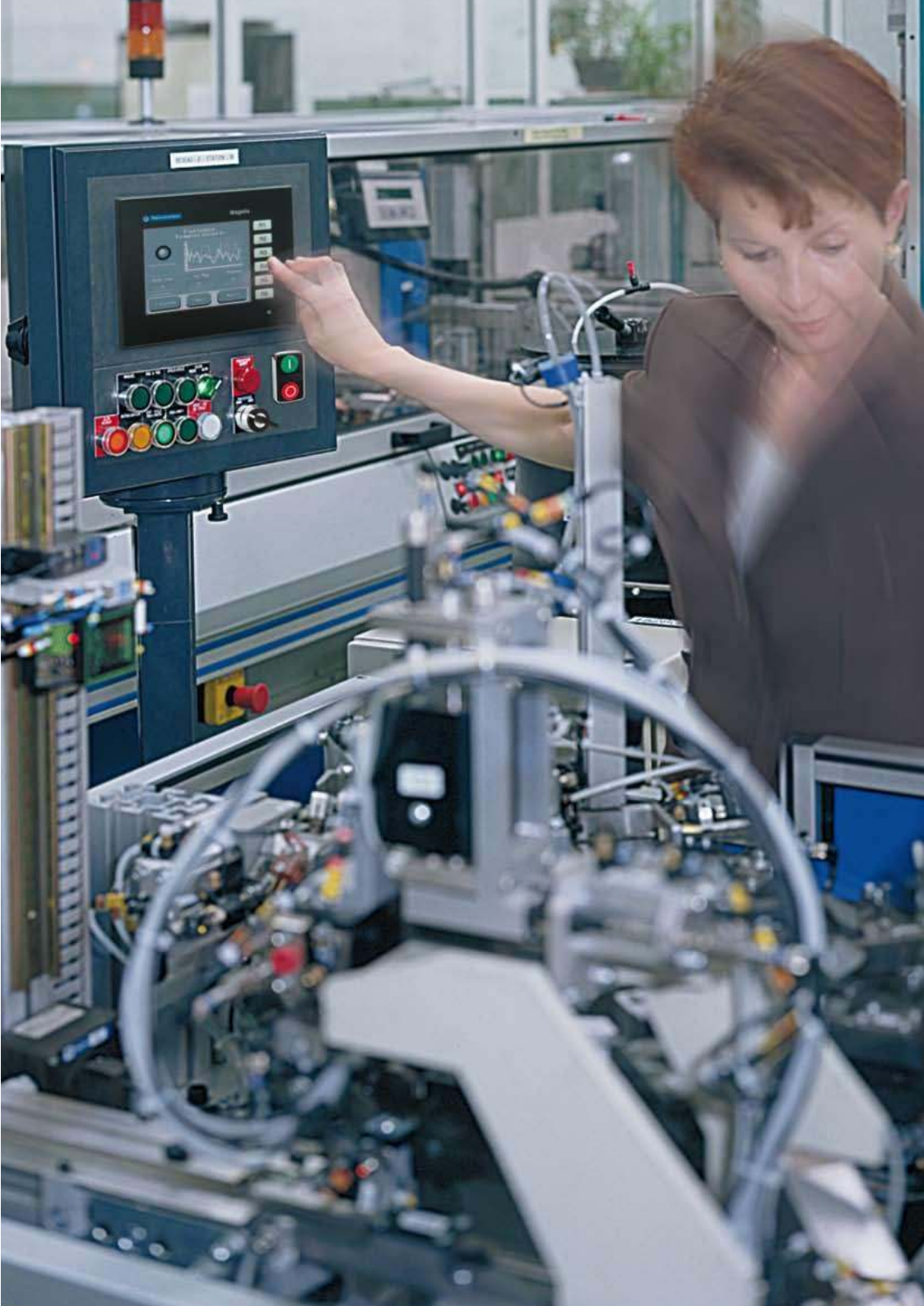
# Control and signalling units Ø 22

Harmony<sup>®</sup>, XB4 metal and XB5 plastic

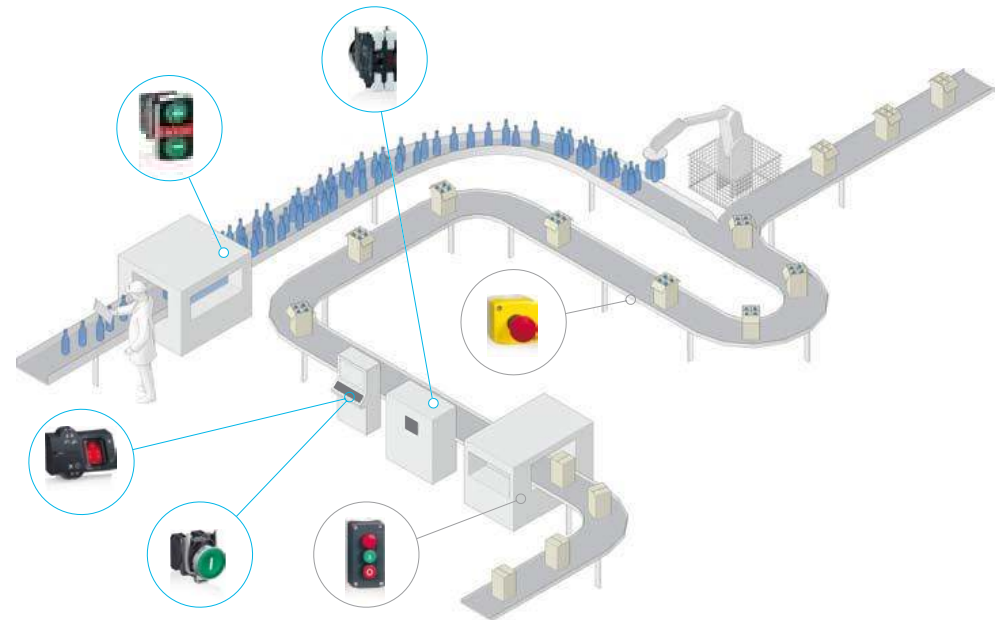
Catalogue

April 2009





# Invest with complete peace of mind!



## > The assurance of reliable components in any situation

- Robustness and safety
- Conformity to the highest quality standards

## > The assurance of finding the solution for any application

- An offer unrivalled in content and complementarity

## > The assurance of saving valuable time




- Simplicity and speed of installation
- Worldwide availability




Harmony is also a comprehensive range of:

- Beacons and indicator banks
- Control stations
- Cam switches
- Joystick controllers



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# The new items at a glance

## Master your machine access control Biometric switch

Designed to restrict access to the functions of industrial machines or processes to authorised personnel only:

- starting, adjustment
- switching to maintenance mode
- resetting following activation of an emergency stop...

### Robust and reliable

- Efficiently overcome the drawbacks of the existing systems: loss, theft or copying of keys, badges and passwords
- IP65 degree of protection
- Protective cover
- Resistant to mechanical shock and vibration
- EMC protection



➔ For references see [page 158](#)

### 100% simple

- Fixed in the same way as a standard Ø 22 switch
- Fully stand-alone product with direct parametering and registration/recording on front face

### 200

recordable fingerprints  
(anonymity assured)

## Gain in space and simplicity Multiple head pushbuttons



### Complete offer

- Double-headed, double-headed + pilot light, triple-headed pushbutton versions
- 3<sup>rd</sup> STOP function button or pilot light

### Customisation

- Using new tamperproof markings and pushbutton cap colors

➔ For references see [pages 26 & 102](#)  
For substitution table see [page 160](#)

### IP66 IP69K

High degree of protection  
as standard (without boot)

### Up to 3 functions

in a Ø 22 mm cut-out

## Conform to the new standards “Emergency stop” function



The Emergency stop function comprises:

- a red, trigger action, latching head to EN/ISO 13850 and EN/IEC 60947-5-5
- a standardised yellow legend

**Emergency stop** function legend  
with EN/IEC60417-5638 symbol

➔ For references see [pages 63 & 141](#)

### 100% conformity

The conformity of our mushroom head Emergency stop pushbuttons to the applicable standards helps you to achieve **conformity to the Machinery directive**

## Opt for both performance and speed Contact blocks



### Quick and secure connection

#### Spring terminal connection

- Intuitive cabling without using tool
- Excellent resistance to mechanical shock and vibration
- Trustworthy safe and secure connections

➔ For references see [pages 46 & 122](#)

### For demanding applications

#### High power

- Improved level of performance for low voltage DC applications from 12 to 48V
- Typical application: direct switching of motors or solenoid valves

➔ For references see [pages 44 & 120](#)

### 66%

savings in time compared to  
a screw clamp connection

### 100 000

operations on 24 VDC (10A)  
for virtually an unlimited  
service life

# Control and signalling units Ø 22

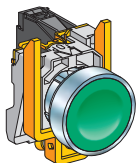
Harmony® XB4, metal

Pushbuttons, switches and pilot lights

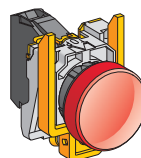
## Description

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

Complete units with chromium plated metal bezel, XB4 B

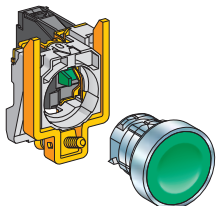


Pushbuttons and switches

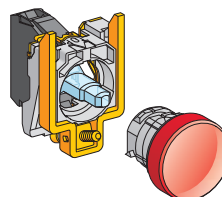


Pilot lights

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

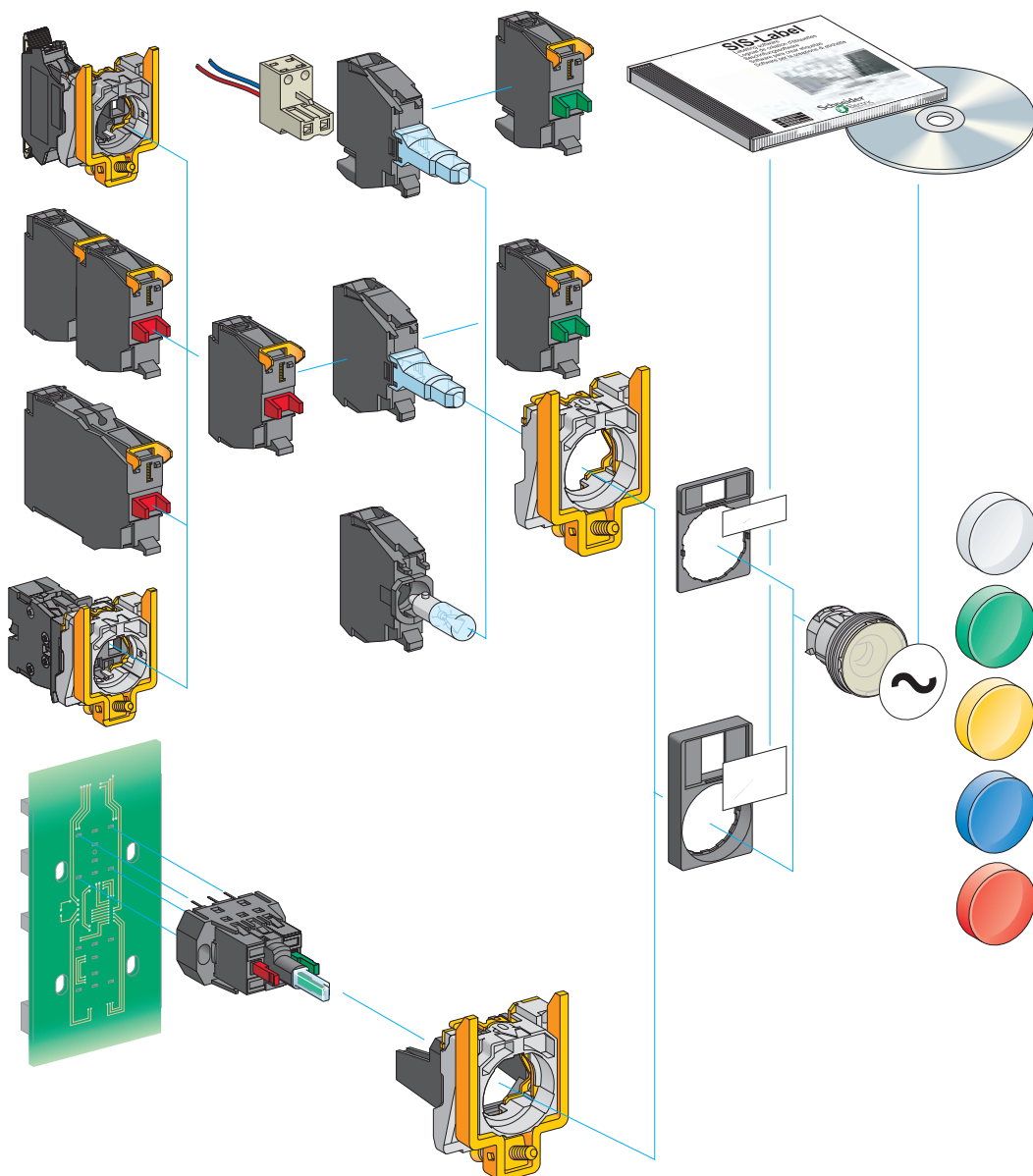


Pushbuttons and switches: body + head sub-assemblies



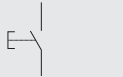

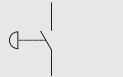

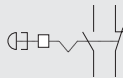


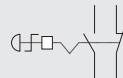
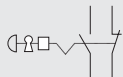
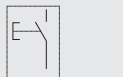
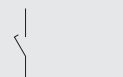

Pilot lights: body + head sub-assemblies

ZB component parts and accessories



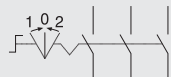

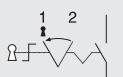


## Schematic library

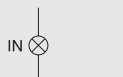

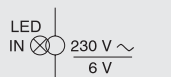
### Contact functions (pushbuttons, Emergency stop and Emergency switching off pushbuttons)

			
<b>Pushbutton N/O contact</b>	<b>Pushbutton N/C contact</b>	<b>Mushroom head spring return N/O contact</b>	<b>Emergency switching off mushroom head pushbutton- Push-pull N/C contact</b>
			
<b>Emergency stop trigger action mushroom head - Push-pull N/O + N/C contacts</b>	<b>Emergency switching off - Turn to release N/C contact</b>	<b>Emergency switching off - Turn to release, with key N/C contact</b>	<b>Emergency stop trigger action mushroom head - Turn to release N/O + N/C contacts</b>
			
<b>Emergency stop trigger action mushroom head Turn to release, with key N/O + N/C contacts</b>	<b>Double-headed pushbutton N/O + N/C contacts</b>	<b>Early make contact block N/O contact</b>	<b>Late break contact block N/C contact</b>

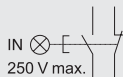

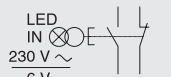
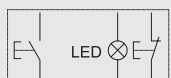
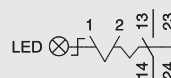
### Contact functions (selector switches)

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

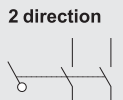
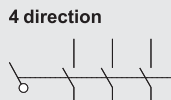
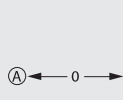
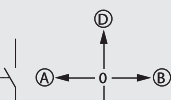
### Signalling functions

		
<b>Pilot light with BA 9s incandescent bulb</b>	<b>LED pilot light</b>	<b>Pilot light with integral transformer 230 V primary, 6 V secondary BA 9s bulb, incandescent or LED</b>

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

		
<b>Illuminated pushbutton, BA 9s incandescent bulb N/O+N/C contacts</b>	<b>Illuminated pushbutton LED - N/O+ N/C contacts</b>	<b>Illuminated pushbutton with integral transformer 230 V ~ 50/60 Hz primary, 6 V secondary BA 9s bulb, incandescent or LED - N/O+ N/C contacts</b>
		
<b>Double-headed pushbutton with LED pilot light</b>	<b>Illuminated selector switch with LED, 2-position stay put N/O + N/C contacts</b>	

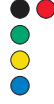
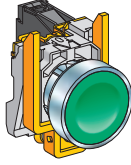
### Joystick controller functions

<b>2 direction</b>	<b>4 direction</b>
	
<b>Without spring return</b>	<b>Without spring return</b>
	
<b>With spring return</b>	<b>With spring return</b>

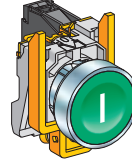
#### Complete units

#### Contact functions

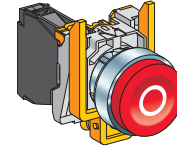
Pushbuttons, spring return, with chromium plated metal bezel



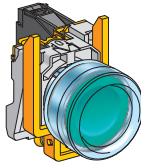
Flush push, unmarked  
XB4 BA●1/BA42  
see page 20



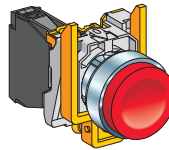
Flush push, with marking  
XB4 BA3311  
see page 22



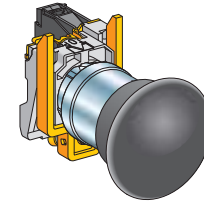
Projecting push, with marking  
XB4 BL4322  
see page 22



Booted flush push  
XB4 BP●1/BP42  
see page 21



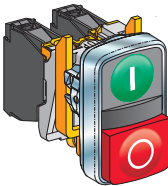
Projecting push, unmarked  
XB4 BL42  
see page 20



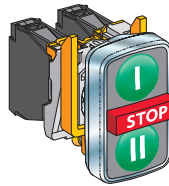
Ø 40

Mushroom head  
XB4 BC21  
see page 28

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

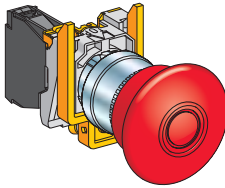


Double-headed  
XB4 BL73415  
see page 26



Triple-headed  
XB4 BA731327/XB4 BA711237  
see page 27

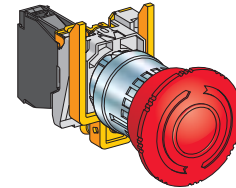
Emergency Stop or Emergency switching off mushroom head pushbuttons, Ø 40, with chromium plated metal bezel



Ø 40

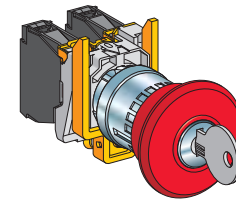
Emergency stop trigger action and mechanical latching

Push-pull (EN/ISO 13850: 2006)  
XB4 BT845  
see page 30



Ø 40

Turn to release (EN/ISO 13850: 2006)  
XB4 BS844●  
see page 30



Ø 40

Key release (EN/ISO 13850: 2006)  
XB4 BS9445  
see page 30

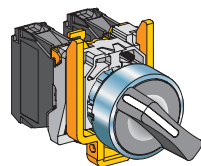
Emergency switching off mechanical latching

Push-pull (IEC 60364-5-53)  
XB4 BT42  
see page 31

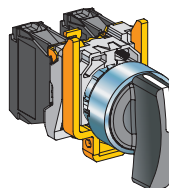
Turn to release (IEC 60364-5-53)  
XB4 BS542  
see page 31

Key release (IEC 60364-5-53)  
XB4 BS142  
see page 31

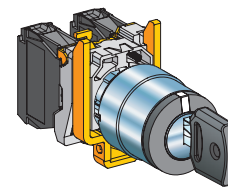
Selector switches and key switches, with chromium plated metal bezel



Standard handle, black  
XB4 BD●●  
see page 34



Long handle, black  
XB4 BJ●●  
see page 35

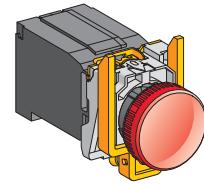
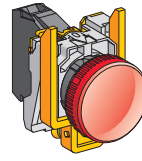
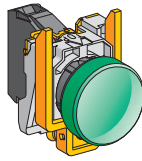


Key switch  
XB4 BG●●  
see page 36

### Complete units

### Signalling functions

#### Pilot lights



Integral LED

**XB4 BVB●/BVG●/BVM●**  
see page 40

For bulb with BA 9s base fitting  
Direct supply

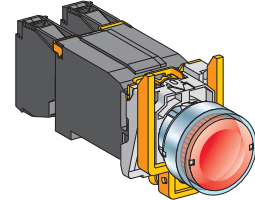
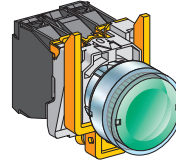
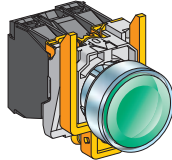
**XB4 BV6●**  
see page 41

Via integral transformer with secondary

**XB4 BV3●/BV4●**  
see page 41

### 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 23

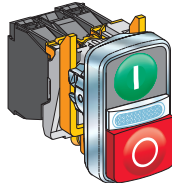
For bulb with BA 9s base fitting  
Direct supply

**XB4 BW3●65**  
see page 25

Via integral transformer

**XB4 BW3●35/BW3●45**  
see page 25

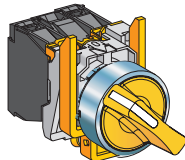
#### Double-headed pushbuttons + pilot light block, spring return, chromium plated metal bezel



Integral LED

**XB4 BW73731●5**  
**XB4 BW7A●●●●**  
**XB4 BW7A9**  
**XB4 BW7L374●**  
see page 26

#### Illuminated selector switches with standard handle, chromium plated metal bezel



Integral LED

**XB4 BK12●●5, XB4 BK13●●5**  
see page 38



# Control and signalling units Ø 22

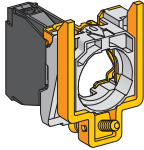
Harmony® XB4, metal

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

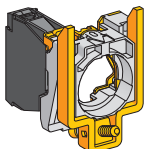
## Non illuminated units for user assembly

For pushbuttons, spring return, unmarked

**Body sub-assemblies**

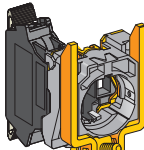


Screw clamp terminals  
ZB4 BZ10●/BZ141  
page 44



Faston  
ZB4 BZ10●3  
page 48

For pushbuttons, spring return, with marking



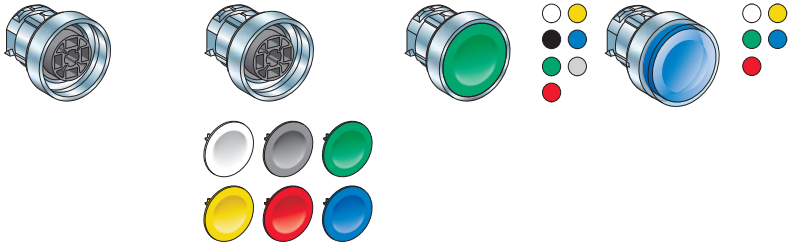
Spring clamp terminals  
ZBE 10●5  
ZB4 BZ10●5  
page 46

For multiple-headed pushbuttons, spring return

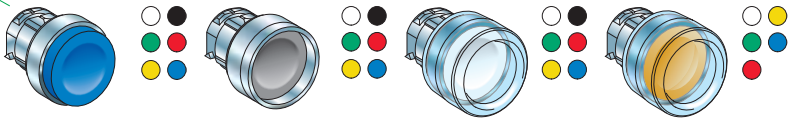
For "push-push to release" pushbuttons

## Contact functions

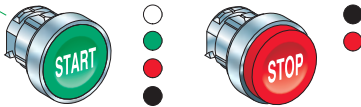
### Head sub-assemblies, chromium plated or black metal bezel



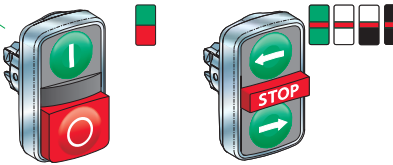
Flush push without cap ZB4 BA0 page 20	Flush push with set of 6 caps ZB4 BA9 page 20	Flush push ZB4 BA● page 20	Flush push for insertion of legend ZB4 BA●8 page 20
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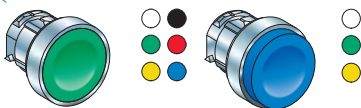
Projecting push ZB4 BL● page 20	Recessed push ZB4 BA●6 page 21	Booted flush/ projecting push ZB4 BP●/ BP●S page 21	Booted flush push for insertion of legend ZB4 BP●8 page 21
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Flush push ZB4 BA●3●/BA●4● ZB4 BA334/335 page 22	Projecting push ZB4 BL●3● page 22
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Double-headed pushbuttons ZB4 BA7●●● ZB4 BA79 ZB4 BL734● page 26	Triple-headed pushbuttons ZB4 BA7313● ZB4 BA711●● ZB4 BA72124 ZB4 BA791 page 27
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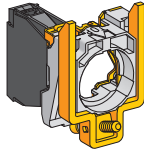


Flush push ZB4 BH0● page 32	Projecting push ZB4 BH● page 32
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**Non illuminated units  
for user assembly  
(continued)**

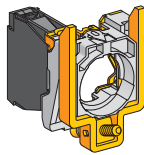
**Contact functions**

For mushroom head pushbuttons



Screw clamp terminals  
ZB4 BZ10●/BZ141  
page 44

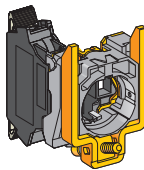
For Emergency Stop or  
Emergency switching off  
mushroom head pushbuttons



Faston  
ZB4 BZ10●3  
page 48

Emergency stop trigger  
action and mechanical  
latching

Emergency switching off  
mechanical latching



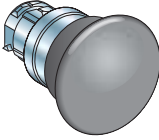
Spring clamp terminals  
ZBE 10●5  
ZB4 BZ10●5  
page 46

Emergency stop trigger  
action and mechanical  
latching

Emergency switching off  
mechanical latching

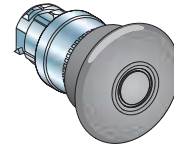
For selector switches  
and key switches

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



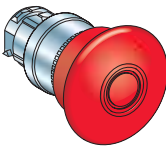
● ● ●  
● ● ●  
● ● ●  
Ø 30  
Ø 40  
Ø 60

Spring return  
ZB4 BC●/BR●  
see page 28



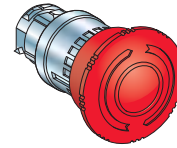
● ●  
● ●  
● ●  
Ø 30  
Ø 40  
Ø 60

Latching  
ZB4 B●2/BS●2/BS55  
see page 29



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

Push-pull (EN/ISO 13850: 2006)  
ZB4 BT84  
see page 30

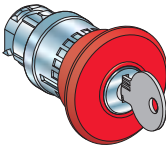


● ●  
● ●  
● ●  
Ø 30  
Ø 40  
Ø 60

Turn to release (EN/ISO 13850: 2006)  
ZB4 BS8●4  
see page 30

Push-pull (IEC 60364-5-3)  
ZB4 BT4/BX4  
see page 31

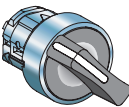
Turn to release (IEC 60364-5-3)  
ZB4 BS44/BS54/BS64  
see page 31



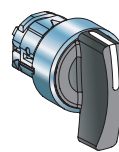
● ● ●  
● ● ●  
● ● ●  
Ø 30  
Ø 40  
Ø 60

Key release (EN/ISO 13850: 2006)  
ZB4 BS9●4  
see page 30

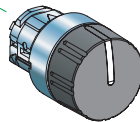
Key release (IEC 60364-5-3)  
ZB4 BS74/BS14/BS24  
see page 31



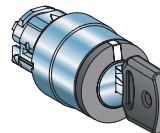
Standard black  
handle (1)  
ZB4 BD●  
page 34



Long black handle  
(1)  
ZB4 BJ●  
page 35

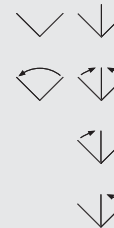


Knurled black knob  
(1)  
ZB4 BD●9  
page 37

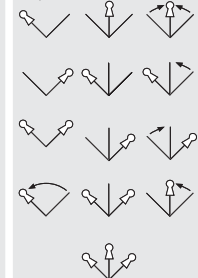


Key switch (2)  
ZB4 BG●●/  
BG●TEC10  
page 37

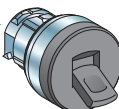
(1) Switch handle  
and knob positions



(2) Key switch  
positions  
Key withdrawal  
positions



For toggle switches



2-position lever (3)  
ZB4 BD●8, see page 37

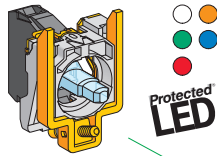
(3) Lever positions



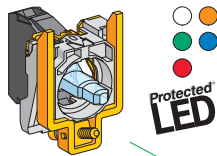
**Pilot lights  
for user assembly**

**Signalling functions**

**Body sub-assemblies  
with integral LED**



Connection: screw  
clamp terminals  
**ZB4 BVJ/BVB/BVG/  
BVM**  
see page 52

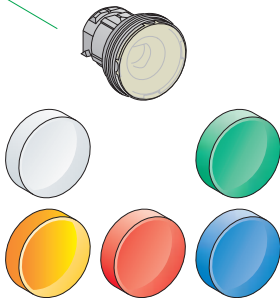


Connection: plug-in  
connector  
**ZB4 BVB•4/BVG•4/  
BVM•4**  
please consult your  
Regional Sales Office

**Head sub-assemblies**

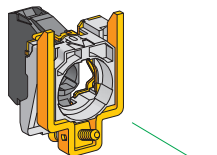


With lens fitted  
**ZB4 BV0•3**  
see page 40

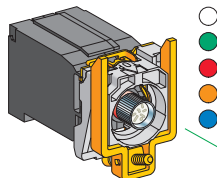


With 5 separate lenses, not fitted  
**ZB4 BV003**  
see page 40

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

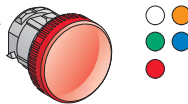


Direct supply  
Connection: screw  
clamp terminals  
**ZB4 BV6**  
see page 55



Via integral transformer  
Connection: screw clamp  
terminals  
**ZB4 BV•D•**  
see page 55

**Head sub-assemblies**

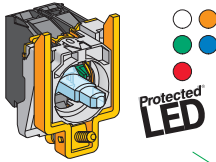


With lens fitted  
**ZB4 BV0•, ZB4 BV0•S**  
see page 41

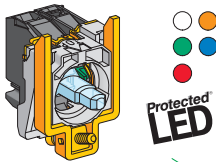
#### Illuminated pushbuttons for user assembly

For illuminated pushbuttons, spring return

#### Body sub-assemblies with integral LED



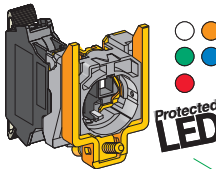
Screw clamp terminals  
ZB4 BW0B/BW0G/  
BW0M  
page 50



Plug-in connector  
ZB4 BW0B●●4  
please consult your  
Regional Sales Office

For illuminated double-headed pushbuttons, spring return

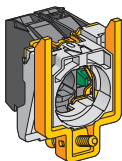
For illuminated "push-push to release" pushbuttons and illuminated selector switches with standard handle



Spring clamp terminals  
ZBV ●●●  
page 46

For illuminated mushroom head pushbuttons

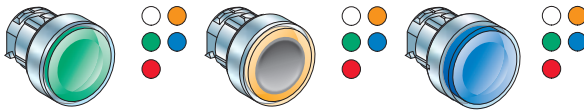
#### Body sub-assemblies for BA 9s bulb



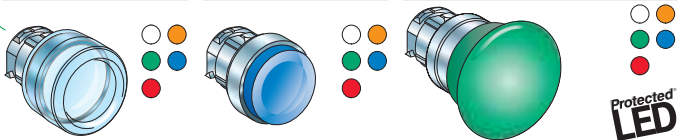
Direct supply or via  
integral transformer  
Screw clamp terminals  
ZB4 BW0●●●  
page 54

References :  
page 20

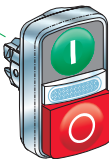
#### Head sub-assemblies, chromium plated or black metal bezel



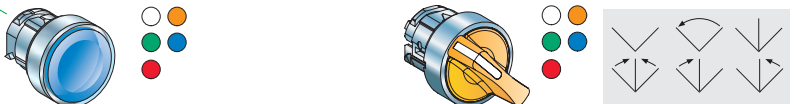
Flush push ZB4 BW3●3 page 24	Flush push with illuminated ring ZB4 BW9●3 page 24	Flush push for insertion of legend ZB4 BA●8 page 24
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Booted flush push ZB4 BW5●3 page 24	Projecting push ZB4 BW1●3, ZB4 BW1●3S page 24	Mushroom head, spring return ZB4 BW4●3 page 28
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Double-headed (flush/flush push) + central pilot light  
Triple-headed (flush/projecting push) + central pilot light  
ZB4 BW7A17●● / ZB4 BW7A374● / ZB4 BW7A9 / ZB4 BW7L374●, see page 26  
ZB4 BA7313●, ZB4 BA71●●●, ZB4 BA72124, ZB4 BA791, see page 27



Flush or projecting "push-push to release" ZB4 BH0●3/BH●3 see page 33	Selector switches with standard handle ZB4 BK1●●3 see page 39
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Mushroom head, latching ZB4 BW6●3 see page 29	Emergency switching off, mechanical latching, push-pull ZB4 BW643 see page 31
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#### Head sub-assemblies, chromium plated or black metal bezel



Flush push ZB4 BW3●, ZB4 BW3●S page 25	Projecting push ZB4 BW1●, ZB4 BW1●S page 25
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Characteristics :  
page 14

Dimensions :  
page 68

Environment			
Protective treatment standard version			"TH" treatment
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 61140		Class I
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switches and multiple-headed pushbuttons)
	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 30), IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons, see page 31) JIS C 4520, UL 508, CSA C22-2 n° 14
Product certifications	UL Listed, CSA		Standard single contacts with screw clamp and spring 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: <input type="checkbox"/> ZBE 201: A300; Q300 <input type="checkbox"/> ZBE 202: A600; Q600 Single contacts for high power switching: <input type="checkbox"/> ZBE 501 and ZBE 502: A300; P300
	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 or spring terminals:
Terminal referencing	Conforming to EN 50005 and EN 50013		

**Characteristics of contact or combined contact and signalling functions (see page 18)**

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
		N	Changing N/C state: 3.5 Changing N/O state: 3.8
Operating force	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 Trigger action turn to release and key release, "trigger action": 44

**Characteristics of contact or combined contact and signalling functions (continued) (see page 18)**

**Mechanical characteristics (continued)**

<b>Operating torque</b> (to change the electrical state)	Selector switches	<b>N.m</b>	N/O contact: 0.14
	Additional contact only	<b>N.m</b>	N/O contact: 0.05
<b>Mechanical durability</b> (in millions of operating cycles)	Pushbutton	Spring return	5
		Multiple-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
<b>Vibration resistance</b>	Conforming to IEC 60068-2-6		Frequency: 2 to 500 Hz: 5 gn
<b>Mechanical shock resistance</b>	Conforming to IEC 60068-2-27		All functions except mushroom head pushbuttons, spring return: <input type="checkbox"/> half sine wave acceleration 11 ms: 50 gn <input type="checkbox"/> half sine wave acceleration 18 ms: 30 gn Mushroom head pushbutton, spring return: <input type="checkbox"/> half sine wave acceleration 11 ms: 10 gn

**Electrical characteristics**

<b>Cabling capacity</b>	Conforming to EN/IEC 60947-1	<b>mm<sup>2</sup></b>	Standard block with screw clamp or spring terminals: Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screws (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (maxi 1.2 N.m)  Contact blocks for high power switching: Min: 1 x 0.5 without cable end Max: 2 x 2.5 with or without cable end
<b>Contact material</b>	Silver alloy (Ag / Ni)		Standard single and double blocks with screw clamp or spring 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
<b>Short-circuit protection</b>	Conforming to EN/IEC 60947-5-1d	<b>A</b>	Standard single and double blocks with screw clamp or spring 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)
<b>Rated thermal current</b>	Conforming to EN/IEC 60947-5-1	<b>A</b>	Standard single and double blocks with screw clamp or spring terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6
<b>Rated insulation voltage</b>	Conforming to EN/IEC 60947-1	<b>V</b>	Standard single and double blocks with screw clamp or spring terminals: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston connectors: Standard blocks for printed circuit board connection Contact blocks for high-power switching: Ui = 250, degree of pollution 3
<b>Rated impulse withstand voltage</b>	Conforming to IEC 60947-1	<b>kV</b>	Standard single and double blocks with screw clamp or spring terminals: Uimp = 6 Blocks for plug-in connector Standard blocks for printed circuit board connection Contact blocks for high-power switching applications: Uimp = 4

**Characteristics of contact or combined contact and signalling functions (continued) (see page 18)**

**Electrical characteristics (continued)**

<b>Rated operational characteristics</b> Conforming to EN/IEC 60947-5-1		a.c. supply: utilisation category AC-15		<p><b>Standard single and double blocks with screw clamp or spring terminals:</b> 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</p> <p><b>Blocks for plug-in connector:</b> A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A</p> <p><b>Standard blocks for printed circuit board connection:</b> B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A</p> <p><b>Special contact blocks:</b></p> <ul style="list-style-type: none"> <li>□ ZBE 201: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V)</li> <li>□ 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</li> </ul> <p><b>Contact blocks for high power switching:</b></p> <ul style="list-style-type: none"> <li>□ ZBE 50: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A</li> </ul>		
		d.c. supply: utilisation category DC-13		<p><b>Standard single and double blocks with screw clamp or spring terminals</b> 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</p> <p><b>Joystick controllers XD4 PA/ZD4 PA:</b> R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p><b>Blocks for plug-in connector:</b> R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p><b>Standard blocks for printed circuit board connection:</b> R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p><b>Special contact blocks:</b></p> <ul style="list-style-type: none"> <li>□ ZBE 201: Q300; Ue = 125 V and Ie = 0.55 A or Ue = 250 V and Ie = 0.27 A</li> <li>□ 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</li> </ul> <p><b>Contact block for high power switching:</b></p> <ul style="list-style-type: none"> <li>□ ZBE 50: P300: Ue = 125 V and Ie = 1.1 A or Ue = 250 V and Ie = 0.55 A</li> </ul>		
<b>Characteristics of special contact blocks</b>	Low power switching		<b>VA</b>	P max: 12		
			<b>A</b>	I max: 0.1		
			<b>V</b>	U max: 24		
	High power switching Conforming to IEC/EN 60947-5-1	100 000 operating cycles Load factor: 0.5 Operating rate: 900 cycles/hour	<b>VA</b>	P max: 240		
			<b>A</b>	I max: 10		
			<b>V</b>	U: 24 ---		
<b>Electrical durability</b> 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>	24	120	230
			<b>A</b>	4	3	2
	d.c. supply for 1 million operating cycles utilisation category DC-13		<b>V</b>	24	120	230
			<b>A</b>	3	1.5	1
	Standard single blocks with screw clamp or spring terminals:	<b>V</b>	24	110		
		<b>A</b>	0.5	0.2		
	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		
<b>Electrical reliability</b> 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/IEC 60947-1	mm <sup>2</sup>	Screw clamp and spring 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/IEC 60947-1	V	Direct supply pilot light blocks (BA 9s bulb): U <sub>i</sub> = 250, degree of pollution 3 Pilot light blocks with integral LED: U <sub>i</sub> = 250, degree of pollution 3 Pilot light blocks with transformer: U <sub>i</sub> = 600, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	kV	Direct supply pilot light blocks (BA 9s bulb): U <sub>imp</sub> = 4 Pilot light blocks with integral LED: U <sub>imp</sub> = 4 Pilot light blocks with transformer: U <sub>imp</sub> = 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 61000-2-6	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 <b>ZBZ V•</b> LED suppressor must be connected across the light block terminals (see page 45)
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)
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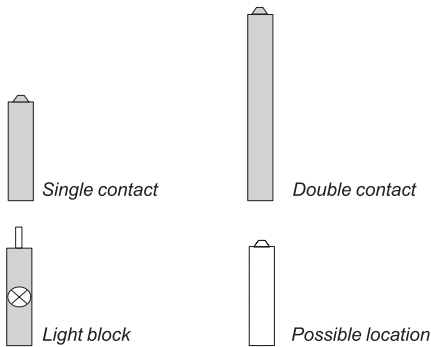
**Hour counters and annunciators**

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



**Maximum recommended configurations guaranteeing achievement of catalogue characteristics**

Unit type (complete units XB4 B, heads ZB4 B)	Pushbuttons, spring return XB4 BA●, ZB4 BA●8, (except ZB4 BA●8) XB4 BC●, ZB4 BC●, XB4 BL●, ZB4 BL●, XB4 BP●, ZB4 BP●, ZB4 BR● Triple-headed pushbuttons XB4 BA731327, XB4 BA711137, ZB4 BA7313●, ZB4 BA7111●, ZB4 BA72124, ZB4 BA791	Double-headed pushbuttons XB4 BL73415, ZB4 BA712●, ZB4 B●734●, ZB4 BA79	Illuminated pushbuttons, spring return XB4 BW●, ZB4 BW●, ZB4 BA●8 Double-headed pushbuttons + pilot light block XB4 BW73731●5, ZB4 BW7A17●●, ZB4 BW7●374●, ZB4 BW7A9	
Solution using single contacts				
Solution using single and double contacts				
Maximum recommended configurations	Single contacts Double contacts + single contacts Light block	9 3 + 3 -	6 2 + 2 -	6 2 + 2 1



**Possible configurations for high power switching contacts (1) (2)**

High power switching contact blocks with screw clamp terminal connections: ZBE 501, ZBE 502, ZBE 503, ZBE 504 and ZBE 505

High power switching contact blocks with connection by Faston connectors ZBE 5013, ZBE 5023, ZBE 5033, ZBE 5043 and ZBE 5053

1 N/O	1 N/C	1 N/O + N/C 1 N/O + N/O 1 N/C + N/C

(1) The configurations are not upgradable and cannot be combined with other types of contact and signalling functions.  
 (2) High power switching contacts are not compatible with Harmony triple-headed pushbuttons.

Emergency stop or Emergency switching off XB4BT●, ZB4BT●, XB4BS●, ZB4BS●		Selector switches <ul style="list-style-type: none"> <li>■ Standard handle XB4 BD●, ZB4 BD●,</li> <li>■ Long handle XB4 BJ●, ZB4 BJ●,</li> <li>■ Knurled knob ZB4 BD●9,</li> <li>■ Key switch XB4 BG●, ZB4 BG●</li> </ul>			Illuminated selector switches, standard handle XB4 BK●, ZB4 BK●		Toggle switches ZB5 AD●8 Pushbuttons, push-turn to release, knurled operator ZB5 AF●, or lockable ZB5 FAD●		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							
Push	Position	Top	315°		45°		315°		0°		45°		
		Bottom	L	C	R	L	C	R	L	C	R	L	C
Contacts	N/O	□	□	□	■	■	■	□	□	□	□	■	■
Contacts	N/C	■	■	■	□	□	□	■	■	■	■	□	□

L left, C centre, R right  
□ open, ■ closed

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see pages 56 and 58

## Control and signalling units Ø 22

Harmony® XB4, metal

Spring return pushbuttons, unmarked



814084  
XB4 BA31



814141  
ZB4 BA0



814142  
ZB4 BA4



814143  
ZB4 BA38



103541  
ZB4 BA34



814087  
XB4 BL42



109495  
ZB4 BL1

Pushbuttons with flush push (1)						
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			

Complete units						
	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 (2)			–	<b>ZB4 BA0</b>	0.028
	Flush, with set of 6 coloured caps			6 colours (3)	<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 (4)			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 (1)						
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			

Complete units						
	Projecting	–	1	Red	<b>XB4 BL42</b> (ZB4 BZ102 + ZB4 BL4)	0.081

Heads only						
	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**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) Coloured cap to be ordered separately: see page 56.

(3) Head supplied with 6 different coloured caps (white, black, green, red, yellow, blue) not fitted.

(4) For legend ordering information, see page 60.

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see pages 56 and 58




#### Pushbuttons with recessed push (1)

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	



ZB4 BA36



#### Pushbuttons with silicone booted head for severe environments (1)

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			kg
<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
				Red	<b>XB4 BP42</b> (ZB4 BZ102 + ZB4 BP4)	0.082
		-	1			



XB4 BP21



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

	Flush	Clear boot (2) For insertion of protected legend within head (3)	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 (2)	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



ZB4 BP18

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

	Flush	Coloured boot (4)	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 (4) For insertion of protected legend within head (3)	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



ZB4 BP2S



ZB4 BP183

#### Heads with black metal bezel

To order, add a figure 7 to the references selected from above.  
Example: **ZB4 BP18** becomes **ZB4 BP187**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(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 58.












(4) Replacement of silicone protection element without dismantling head, see page 57.

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see pages 56 and 58

## Control and signalling units Ø 22

Harmony® XB4, metal

Spring return pushbuttons, with marking

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
		 N/O	 N/C				
kg							
<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		
	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 18.  
(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

▲ Available:  
1st quarter 2009.

General :  
page 6

Characteristics :  
page 14





Dimensions :  
page 68

Assembly of other products using:  
 body/contact assemblies: see page 44  
 combined sub-assemblies: see page 50  
 accessories: see page 58

## Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated pushbuttons, spring return, with integral LED

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	
				V			kg	
		N/O	N/C					
<b>Complete units - With plain lens</b>								
		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
						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
						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						

XB4 BW33B5







XB4 BW34G5

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

Assembly of other products using:  
combined sub-assemblies: see page 50  
accessories: see page 18

**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
<b>Heads only (2) - With plain lens</b>				
 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
 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 18.

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

(3) For legend ordering information, see page 58.

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

Assembly of other products using:  
combined sub-assemblies: see page 50  
accessories: see page 18

## Control and signalling units Ø 22

Harmony® XB4, metal

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

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				

### Complete units - With plain lens



XB4 BW3545

	Direct supply 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	
	Via integral transformer 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	1	1	~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

### Heads only <sup>(2)</sup> - With plain lens



ZB4 BW33

	Flush	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

### Heads only <sup>(2)</sup> - With grooved lens <sup>(3)</sup>

	Flush	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 <sup>(1)</sup>

#### Heads only <sup>(2)</sup> - With plain lens



ZB4 BW14

	Projecting	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

#### Heads only <sup>(2)</sup> - With grooved lens <sup>(3)</sup>

	Projecting	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**.

<sup>(1)</sup> Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18

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

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



User assembly of other units, using:  
body-contact assemblies: see page 44  
combined sub-assemblies: see page 50



XB4 BL73415



ZB4 BA7121



ZB4 BL7341



XB4 BW73731●5



ZB4 BW7A1721



ZB4 BW7A3741

#### Double-headed pushbuttons (1)

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

Shape of head	Description	Type of contact		Colour and marking of caps (2)	Reference	Weight
						kg
		N/O	N/C			

#### Complete units

	2 pushes (1 flush black + 1 projecting red)	1	1	White "I" on green background White "0" on red background	<b>XB4 BL73415</b> ⓘ	0.116
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#### Heads only

	2 flush black pushes			White background + black background, unmarked	<b>ZB4 BA7120</b> ⓘ	0.056
				Black "I" on white background White "0" on black background	<b>ZB4 BA7121</b> ⓘ	0.056
				Green background + red background, unmarked	<b>ZB4 BA7340</b> ⓘ	0.056
				White "I" on green background White "0" on red background	<b>ZB4 BA7341</b> ⓘ	0.056
				Without cap (3)	<b>ZB4 BA79</b> ⓘ	0.056
	1 flush black push 1 projecting red push			Green background + red background, unmarked	<b>ZB4 BL7340</b> ⓘ	0.056
				White "I" on green background White "0" on red background	<b>ZB4 BL7341</b> ⓘ	0.056

#### Double-headed pushbuttons + 1 white central pilot light block (1)

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

Shape of head	Description	Type of contact		Colour and marking of caps (2)	Pilot light voltage	Reference	Weight
					V		kg
		N/O	N/C				

#### Complete units

	1 flush black push 1 projecting red push 1 white central pilot light block	1	1	White "I" on green background White "0" on red background	24	<b>XB4 BW73731B5</b> ⓘ	0.130
					120	<b>XB4 BW73731G5</b> ⓘ	0.130
					240	<b>XB4 BW73731M5</b> ⓘ	0.130

#### Heads only (5)

	2 flush black pushes 1 clear central pilot light (4)			White background + black background, unmarked		<b>ZB4 BW7A1720</b> ⓘ	0.056
				Black "I" on white background White "0" on black background		<b>ZB4 BW7A1721</b> ⓘ	0.056
				Green background + red background, unmarked		<b>ZB4 BW7A3740</b> ⓘ	0.056
				White "I" on green background White "0" on red background		<b>ZB4 BW7A3741</b> ⓘ	0.056
				Black "▲" on white background White "⊕" on black background		<b>ZB4 BW7A1724</b> ⓘ	0.056
				Black "+" on white background Black "-" on white background		<b>ZB4 BW7A1715</b> ⓘ	0.056
				Without cap (3)		<b>ZB4 BW7A9</b> ⓘ	0.056
	1 flush black push 1 projecting red push 1 clear central pilot light (4)			Green background + red background, unmarked		<b>ZB4 BW7L3740</b> ⓘ	0.056
				White "I" on green background White "0" on red background		<b>ZB4 BW7L3741</b> ⓘ	0.056

#### Heads with black metal bezel

To order, add the suffix 7 to the references selected above. Example: **ZB4 BA7120** becomes **ZB4 BA71207**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(3) Caps to be ordered separately: see page opposite.

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

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

ⓘ New

General :  
page 6




Characteristics :  
page 14

Dimensions :  
page 68

User assembly of other units, using:  
body-contact assemblies: see page 44  
combined sub-assemblies: see page 50

#### Triple-headed pushbuttons (1) (2)











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

Shape of head	Description	Type of contact			Colour and marking of caps (3)	Reference	Weight
							kg
		N/O	N/C	N/O			




















#### Complete units

	2 flush black pushes + 1 central projecting red push marked "Stop" in white	1	1	1	White "I" on green background White "II" on green background	<b>XB4 BA731327</b> 	0.128
					Black "→" on white background White "←" on black background	<b>XB4 BA711237</b> 	0.128

#### Heads only

	2 flush black pushes + 1 central projecting red push marked "Stop" in white				White "I" on green background White "II" on green background	<b>ZB4 BA73132</b> 	0.056
					White "←" on green background White "→" on green background	<b>ZB4 BA73133</b> 	0.056
					White "↑" on green background White "↓" on green background	<b>ZB4 BA73134</b> 	0.056
					White "+" on green background White "-" on green background	<b>ZB4 BA73135</b> 	0.056
					Black "+" on white background Black "-" on white background	<b>ZB4 BA71115</b> 	0.056
					Black "→" on white background White "←" on black background	<b>ZB4 BA71123</b> 	0.056
					Black "↑" on white background White "↓" on black background	<b>ZB4 BA71124</b> 	0.056
					White "↑" on black background White "↓" on black background	<b>ZB4 BA72124</b> 	0.056
					Without cap (4)	<b>ZB4 BA791</b> 	0.056

#### Specific accessories for multiple-headed pushbuttons

Description	Background colour	Marking	Sold in lots of	Reference	Weight
Caps only for clip-on mounting on double or triple-headed pushbuttons (5)	White	Unmarked	10	<b>ZBA 71</b> 	0.010
		"I" black	10	<b>ZBA 7131</b> 	0.010
		"→" black	10	<b>ZBA 7134</b> 	0.010
		"+" black	10	<b>ZBA 7138</b> 	0.010
	Black	Unmarked	10	<b>ZBA 72</b> 	0.010
		"O" white	10	<b>ZBA 7232</b> 	0.010
		"+" white	10	<b>ZBA 7233</b> 	0.010
		"→" white	10	<b>ZBA 7235</b> 	0.010
	Green	Unmarked	10	<b>ZBA 73</b> 	0.010
		"I" white	10	<b>ZBA 7331</b> 	0.010
		"+" white	10	<b>ZBA 7333</b> 	0.010
		"↑" white	10	<b>ZBA 7335</b> 	0.010
Red	Unmarked	10	<b>ZBA 74</b> 	0.010	
	"O" white	10	<b>ZBA 7432</b> 	0.010	
Yellow	Unmarked	10	<b>ZBA 75</b> 	0.010	
	Blue	Unmarked	10	<b>ZBA 76</b> 	0.010
Clear silicone boots (6)	For 2 flush pushes	–	10	<b>ZBA 708</b> 	0.055
	For 3 pushes	–	10	<b>ZBA 709</b> 	0.055
	For 1 flush push + 1 projecting push	–	10	<b>ZBA 710</b> 	0.055

#### Heads with black metal bezel

To order, add the suffix 7 to the references selected above.  
Example: **ZB4 BA73132** becomes **ZB4 BA731327**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

(2) Not compatible with high power switching contacts and contacts for printed circuit board.

(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(4) Caps to be ordered separately: see accessories on this page.

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

(6) Can be replaced without dismantling the head.



XB4 BA731327



ZB4 BA73133



ZB4 BA71124



ZBA 7235



ZBA 7331



ZBA 7432



ZBA 709

 New

General :  
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Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

814088



XB4 BC21

814166



ZB4 BC24

814167



ZB4 BC2

814168



ZB4 BR2

108543



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
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#### Heads only (4)

	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

Protected LED

### 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 18.
- (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 44  
accessories: see page 58

## Control and signalling units Ø 22 Harmony® XB4, metal Mushroom head pushbuttons, latching

### Mushroom head pushbuttons (1) (2)

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



ZB4 BT2




ZB4 BS62



ZB4 BS72

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

#### Integral LED

Shape of head	Type of reset	Push		Reference	Weight kg
		Ø (mm)	Colour		
<b>Heads only</b>					
	Mushroom head	40	White	ZB4 BW613	0.051
			Green	ZB4 BW633	0.051
			Orange	ZB4 BW653	0.051
			Blue	ZB4 BW663	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 18.

(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 44  
accessories: see pages 63 and 64

## 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

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
		 N/O	 N/C	Ø (mm)	Colour		
<b>Complete units</b>							





XB4 BT845





	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



XB4 BS9445

	Key release (key n° 455)  (3)	1	1	40	Red	<b>XB4 BS9445</b> (ZB4 BZ105 + ZB4 BS944)	0.170
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#### Heads only

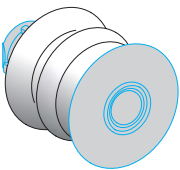
Shape of head	Type of reset	Push		Reference	Weight
		Ø mm	Colour		
	Push-pull	30	Red	<b>ZB4 BT844 ▲</b>	0.078
		40	Red	<b>ZB4 BT84</b>	0.078
		60	Red	<b>ZB4 BX84</b>	0.098
	Turn to release	30	Red	<b>ZB4 BS834</b>	0.068
		40	Red	<b>ZB4 BS844</b>	0.073
		60	Red	<b>ZB4 BS864</b>	0.093
	Key release (key 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



ZB4 BS834

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

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




ZBZ ●8

#### 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 18

(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:  
1<sup>st</sup> quarter 2009.

General :  
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Characteristics :  
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Dimensions :  
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Assembly of other products using:  
 body/contact assemblies: see page 44  
 combined sub-assemblies: see page 50  
 accessories: see pages 58 and 64

## 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 (1) (2)




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

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

#### 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)	–	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)			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 (1)

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

Shape of head	Type of reset	Push	Reference	Weight kg	
		Ø mm	Colour		
	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 18.

(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 mechanical latching Emergency switching off 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:  
1<sup>st</sup> quarter 2009.

General :  
page 6

Characteristics :  
page 14

Dimensions :  
page 68

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

**Pushbuttons with flush push (1)**


Shape of head	Type of push	Colour of push	Reference	Weight kg
<b>Heads only</b>				
	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

814154



ZB4 BH02

**Pushbuttons with projecting push (1)**

Shape of head	Type of push	Colour of push	Reference	Weight kg
<b>Heads only</b>				
	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

523702



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 18.

(2) Caps to be ordered separately, see page 56

Assembly of other products using:  
combined sub-assemblies: see page 48  
accessories: see page 58


## Control and signalling units Ø 22

### Harmony® XB4, metal

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




ZB4 BH033

Illuminated pushbuttons with flush push (1)				
Shape of head	Type of push	Colour of lens	Reference	Weight kg
<b>Heads only (2)</b>				
	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



ZB4 BH63

Illuminated pushbuttons with projecting push (1)				
Shape of head	Type of push	Colour of lens	Reference	Weight kg
<b>Heads only (2)</b>				
	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

#### 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 18.







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











Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

**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
		N/O	N/C	Number	Type		

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 18.

106188

XB4 BD33

106195

ZB4 BD4

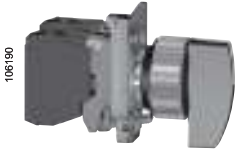
Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

## Control and signalling units Ø 22

Harmony® XB4, metal

Selector switches with long handle: normal and padlockable

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		
		N/O	N/C	Number	Type				
<b>Complete units</b>									
	Long handle, black	1	-	2-position 90°	Stay put		<b>XB4 BJ21</b> (ZB4 BZ101 + ZB4 BJ2)	0.096	
				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	
<b>Heads only</b>									
	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	
					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						



ZB4 BJ21



ZB4 BJ3



ZB4 BJ291

### 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 18.

(2) The symbol indicates the padlocking positions.

Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58







## Control and signalling units Ø 22



















Harmony® XB4, metal

Key switches

Key n° 455, 421E, 458A, 520E, 3131A


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 kg
		N/O	N/C	Number	Type		

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	
						Spring return from right to left		<b>ZB4 BG6</b>	0.098
					3-position ± 45°	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 18.
- (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.











Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58








## 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		Reference	Weight kg	
		Number	Type			
<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 BG3TEC10			0.160
			ZB4 BG5TEC10			0.160
		Spring return to centre			ZB4 BG9TEC10	0.160
					ZB4 BG7TEC10	0.170
					ZB4 BG05TEC10	0.170

Selector switches with knurled knob (1)							
Shape of head	Type of operator	Positions		Reference	Weight kg		
		Number	Type				
<b>Heads only</b>							
	Black knurled knob	2-position 90°	Stay put		ZB4 BD29	0.043	
					ZB4 BD49	0.050	
			Spring return from right to left	3-position ± 45°	Stay put		ZB4 BD39
		Spring return to centre					ZB4 BD59
					Spring return from left to centre		ZB4 BD79
		Spring return from right to centre					ZB4 BD89

Toggle switches (1)						
Shape of head	Type of operator	Positions		Reference	Weight kg	
		Number	Type			
<b>Heads only</b>						
	Black lever	2-position 90°	Stay put		ZB4 BD28	0.026
				Spring return		ZB4 BD48

### 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.






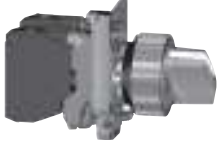

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

Assembly of other products using:  
combined sub-assemblies: see page 48  
accessories: see page 58

# 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 <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								
		 		V			kg								
		N/O	N/C												
<b>Complete units</b>															
 XB4 BK123B5		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						
						 XB4 BK134B5		Standard handle	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 18.








Assembly of other products using:  
combined sub-assemblies: see page 44  
accessories: see page 58

## 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	ZB4 BK1213	0.036
					Green	ZB4 BK1233	0.036
					Red	ZB4 BK1243	0.036
					Orange	ZB4 BK1253	0.036
					Blue	ZB4 BK1263	0.036
		Spring return from right to left		White	ZB4 BK1413	0.037	
				Green	ZB4 BK1433	0.037	
				Red	ZB4 BK1443	0.037	
				Orange	ZB4 BK1453	0.037	
				Blue	ZB4 BK1463	0.037	
	3-position ± 45°	Stay put			White	ZB4 BK1313	0.036
					Green	ZB4 BK1333	0.036
					Red	ZB4 BK1343	0.036
					Orange	ZB4 BK1353	0.036
					Blue	ZB4 BK1363	0.036
		Spring return to centre		White	ZB4 BK1513	0.036	
				Green	ZB4 BK1533	0.036	
				Red	ZB4 BK1543	0.036	
				Orange	ZB4 BK1553	0.036	
				Blue	ZB4 BK1563	0.036	
Spring return from right to centre		White	ZB4 BK1813	0.036			
		Green	ZB4 BK1833	0.036			
		Red	ZB4 BK1843	0.036			
		Orange	ZB4 BK1853	0.036			
		Blue	ZB4 BK1863	0.036			
Spring return from left to centre		White	ZB4 BK1713	0.036			
		Green	ZB4 BK1733	0.036			
		Red	ZB4 BK1743	0.036			
		Orange	ZB4 BK1753	0.036			
		Blue	ZB4 BK1763	0.036			



ZB4 BK1343



### 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 18.

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

Assembly of other products using:  
body/light assemblies: see page 52  
accessories: see pages 56 and 60

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					
 814114 <b>XB4 BVB5</b>	 <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					
 814213 <b>ZB4 BV063</b>	 <b>Protected LED</b>	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)					
 <b>Protected LED</b>	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)					
 <b>Protected LED</b>	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	

(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 58.  
 (4) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
body/light assemblies: see page 53  
accessories: see pages 56 and 60


## Control and signalling units Ø 22

### Harmony® XB4, metal

#### Pilot lights with integral LED and with BA 9s base fitting

#### Pilot lights with integral LED and transformer (1.2 VA, 24 V secondary)

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

Shape of head	Supply voltage V	Colour	Reference (1)	Weight kg
<b>Complete units - With plain lens</b>				
	~ 400 - 50 Hz (1)	White	<b>XB4 BV5B1</b> <span style="color:red">n</span>	0.172
		Green	<b>XB4 BV5B3</b> <span style="color:red">n</span>	0.172
		Red	<b>XB4 BV5B4</b> <span style="color:red">n</span>	0.172
		Orange	<b>XB4 BV5B5</b> <span style="color:red">n</span>	0.172
		Blue	<b>XB4 BV5B6</b> <span style="color:red">n</span>	0.172



080702



XB4 BV5B5

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

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

Shape of head	Supply voltage V	Colour	Reference	Weight kg
<b>Complete units - With plain lens</b>				
■ Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W max (bulb not included)				
	≤ 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)				
	~ 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
	~ 230 - 50 Hz ~ 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

814114





XB4 BV64

814117



XB4 BV33

#### Heads only (2)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
■ With plain lens				
	<b>With BA 9s base fitting</b>	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
■ With grooved lens (3)				
	<b>With BA 9s base fitting</b>	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

814213



ZB4 BV04

523768



ZB4 BV06S

(1) For order ~ 440...460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8». Example: XB4 BV5B1 becomes XB4 BV8B1. To order ~ 550...600 V - 60 Hz blocks, please replace «5» by «9». Example: XB4 BV5B1 becomes XB4 BV9B1.

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

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

n New

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Assembly of other products using:  
body/contact assemblies: see page 44  
accessories: see page 58

## Control and signalling units Ø 22


Harmony® XB4, metal

Specific functions

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




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 BA862</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



XB5 DS•

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 KS•

Annunciators (IP 40 NEMA 1)			
85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 74)	≈ 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.

Assembly of other products using accessories: see page 58

## Control and signalling units Ø 22

Harmony® XB4, metal

Specific functions

Joystick controllers, wobblesticks

814342



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 20 to 42



ZB4 BZ009



ZBE 101



ZBE 203



ZB4 BZ101



ZBE 201



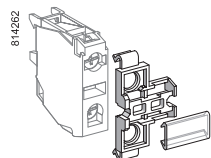
ZB4 BZ106



ZB4 BZ107





ZBE 501










ZBZ 001

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	Weight kg		
Low power switching	Single	Standard	1	–	5	ZBE 1016	0.012	
		Dusty environment (2) (IP5X, 50 µm dust)	–	1	5	ZBE 1026	0.012	
			1	–	5	ZBE 1016P	0.012	
			–	1	5	ZBE 1026P	0.012	
Staggered contacts	Single	Early make N/O	1	–	5	ZBE 201	0.011	
		Late break N/C	–	1	5	ZBE 202	0.011	
		Single with body/fixing collar	Overlapping N/O+N/C	1	1	5	ZB4 BZ106	0.062
		Staggered N/O+N/O	2	–	5	ZB4 BZ107	0.062	
High power switching	Single	Standard (3)	1	–	1	ZBE 501 	0,020	
			–	1	1	ZBE 502 	0,020	
			2	–	1	ZBE 503 	0,032	
			–	2	1	ZBE 504 	0,032	
			1	1	1	ZBE 505 	0,032	

Clip-on legend holder, sheet of blank legends and labelling software			
Description	Sold in lots of	Unit reference	Weight kg
Clip-on legend-holder for electrical blocks with screw clamp terminal connections (4). For identification of an XB4 B control or signalling unit	10	ZBZ 001	0.001
Sheet of 50 blank legends for legend holder ZBZ 001	10	ZBY 001	0.023
«SIS Label» labelling software for legend design (ZBY 001 legends) (for design of legends in English, French, German, Italian, Spanish)	1	XBZ 2U	0.100

(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 18.  
 (2) It is not possible to fit an additional contact block on the back of these contact blocks.  
 (3) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.  
 (4) This legend holder is not compatible with high power switching contacts.

 New

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To combine with heads, see page 24

## Light blocks with 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
<b>Integral LED</b> (to combine with heads for integral LED)	~ 12 (50/60 Hz)	White	5	<b>ZBV J1</b>	0.017
		Green	5	<b>ZBV J3</b>	0.017
		Red	5	<b>ZBV J4</b>	0.017
		Orange	5	<b>ZBV J5</b>	0.017
		Blue	5	<b>ZBV J6</b>	0.017
	~ 24 (50/60 Hz)	White	5	<b>ZBV B1</b>	0.017
		Green	5	<b>ZBV B3</b>	0.017
		Red	5	<b>ZBV B4</b>	0.017
		Orange	5	<b>ZBV B5</b>	0.017
		Blue	5	<b>ZBV B6</b>	0.017
	~ 24...120 (50/60 Hz)	White	5	<b>ZBV BG1</b>	0.017
		Green	5	<b>ZBV BG3</b>	0.017
		Red	5	<b>ZBV BG4</b>	0.017
		Orange	5	<b>ZBV BG5</b>	0.017
		Blue	5	<b>ZBV BG6</b>	0.017
	~ 110...120 (50/60 Hz)	White	5	<b>ZBV G1</b>	0.017
		Green	5	<b>ZBV G3</b>	0.017
		Red	5	<b>ZBV G4</b>	0.017
		Orange	5	<b>ZBV G5</b>	0.017
		Blue	5	<b>ZBV G6</b>	0.017
	~ 230...240 (50/60 Hz)	White	5	<b>ZBV M1</b>	0.017
		Green	5	<b>ZBV M3</b>	0.017
		Red	5	<b>ZBV M4</b>	0.017
		Orange	5	<b>ZBV M5</b>	0.017
		Blue	5	<b>ZBV M6</b>	0.017

## Flashing light blocks with 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
<b>Integral LED</b> (to combine with heads for integral LED)	~ 24 (50/60 Hz)	White	5	<b>ZBV 18B1</b>	0.017
		Green	5	<b>ZBV 18B3</b>	0.017
		Red	5	<b>ZBV 18B4</b>	0.017
		Orange	5	<b>ZBV 18B5</b>	0.017
		Blue	5	<b>ZBV 18B6</b>	0.017
	~ 110...120 (50/60 Hz)	White	5	<b>ZBV 18G1</b>	0.017
		Green	5	<b>ZBV 18G3</b>	0.017
		Red	5	<b>ZBV 18G4</b>	0.017
		Orange	5	<b>ZBV 18G5</b>	0.017
		Blue	5	<b>ZBV 18G6</b>	0.017
	~ 230...240 (50/60 Hz)	White	5	<b>ZBV 18M1</b>	0.017
		Green	5	<b>ZBV 18M3</b>	0.017
		Red	5	<b>ZBV 18M4</b>	0.017
		Orange	5	<b>ZBV 18M5</b>	0.017
		Blue	5	<b>ZBV 18M6</b>	0.017

## Transformer blocks for 24 V light blocks

For use with	Supply voltage V	Description	Référence	Weight kg
Light blocks with integral LED	~ 400 V - 50 Hz	Transformer 400 V - 24 V ~	<b>ZBV 5B (1)</b> 	0.090

## Blocks for "test light" function

Light blocks	Supply voltage V	Description	Reference	Weight kg
	~ 12 and 24 ~ 24...120	Single module, 1 connecting wire	<b>ZBZ G156 (2)</b>	0.010
Light blocks with integral LED	~ 48...230	Double module, with connecting wires	<b>ZBZ M156 (3)</b>	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	<b>ZBZ VG</b>	0.010
	~ 230	30...230 VA	<b>ZBZ VM</b>	0.010

(1) To order ~ 440...460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8»: ZBV 5B becomes ZBV 8B.

To order ~ 550...600 V - 60 Hz transformer blocks, please replace «5» by «9»: ZBV 5B becomes ZBV 9B.

(2) 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**.(3) Block for use ~ light blocks integral LED types **ZBV G●**, **ZBV M●**, see connection on page 76.

814273



ZBV B●

Protected LED

080705



ZBV 5B

522067



ZBZ G156

522068



ZBZ M156

814274



ZBZ V●

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To combine with heads, see pages 20 to 42



ZB4 BZ009



ZBE 1015



ZB4 BZ1015

#### 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 clamp terminal connections (1)

##### Contacts for standard applications

Description	Type of contact	Symbol		Sold in lots of	Unit reference	Weight kg
		N/O	N/C			
Contact blocks	Single	1	–	4	ZBE 1015	0.011
		–	1	4	ZBE 1025	0.011
Contact blocks	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
		1	1	1	ZB4 BZ1055	0.062

#### Light blocks

##### Spring clamp 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
		Integral LED (to combine with heads for integral LED)	≈ 24 (50/60 Hz)	White	4
Green	4			ZBV B35	0.016
Red	4			ZBV B45	0.016
Orange	4			ZBV B55	0.016
Blue	4			ZBV B65	0.016
Integral LED (to combine with heads for integral LED)	~ 110...120 (50/60 Hz)			White	4
		Green	4	ZBV G35	0.016
		Red	4	ZBV G45	0.016
		Orange	4	ZBV G55	0.016
		Blue	4	ZBV G65	0.016
		Integral LED (to combine with heads for integral LED)	~ 230...240 (50/60 Hz)	White	4
Green	4			ZBV M35	0.016
Red	4			ZBV M45	0.016
Orange	4			ZBV M55	0.016
Blue	4			ZBV M65	0.016

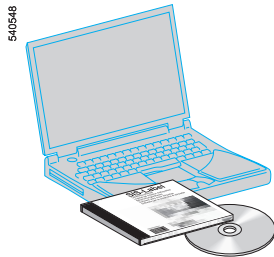


#### Sheet of 50 blank legends

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



XBY 2U

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

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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 (1)

##### 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) (1)



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 (1)

##### 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 7016	0.012
		–	1	5	ZBE 7026	0.012

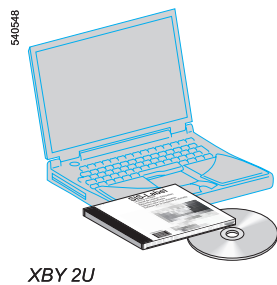
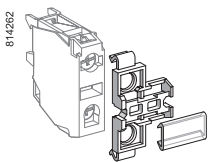
#### Light blocks (1)

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



(1) For details of support drilling and of printed circuit board: see page 79

To combine with heads, see pages 20 to 42



#### Contact functions <sup>(1)</sup> Faston connectors (6.35 or 2 x 2.8 mm) (Schneider Electric anti-retightening system)

##### Contacts for standard applications

Description	Type of contact	Symbol		Sold in lots of	Unit reference	Weight kg
		N/O	N/C			
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 <sup>(2)</sup>	0.053
–		1	1	ZB4 BZ1023 <sup>(2)</sup>	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	Symbol		Sold in lots of	Unit reference	Weight kg
			N/O	N/C			
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
		Late break	–	1	5	ZBE 2023 <sup>(2)</sup>	0.011
		Standard <sup>(4)</sup>	1	–	1	ZBE 5013 <sup>(5)</sup>	0,021
High power switching	Single	Standard <sup>(4)</sup>	–	1	1	ZBE 5023 <sup>(5)</sup>	0,021
			2	–	1	ZBE 5033 <sup>(5)</sup>	0,033
			–	2	1	ZBE 5043 <sup>(5)</sup>	0,033
			1	1	1	ZBE 5053 <sup>(5)</sup>	0,033

#### Clip-on legend holder for electrical blocks with screw clamp terminal connections <sup>(5)</sup>

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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- <sup>(1)</sup> 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).
- <sup>(2)</sup> 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.
- <sup>(3)</sup> It is not possible to fit an additional contact block on the back of these contact blocks.
- <sup>(4)</sup> It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.
- <sup>(5)</sup> This legend holder is not compatible with high power switching contact blocks.

New

General :  
page 6

Characteristics :  
page 14

Dimensions :  
page 68

To combine with heads, see pages 20 to 42



814264

ZB4 BZ009



814278

ZBE 1014



814279

ZBE 1024



814135

ZB4 BZ1014



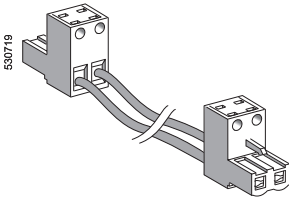
814136

ZB4 BZ1024



814280

ZBV B•4



530716

APE 1C2250

#### 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

##### Plug-in connector (1)

##### Contacts for standard applications

Description	Type of contact	Symbol		Sold in lots of	Unit reference	Weight kg
		N/O	N/C			
Contact blocks	Single	1	–	5	ZBE 1014	0.011
		–	1	5	ZBE 1024	0.011
Contact blocks	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
		Integral LED (to combine with heads for integral LED)	~ 110...120 (50/60 Hz)	White	5
Green	5			ZBV G34	0.016
Red	5			ZBV G44	0.016
Orange	5			ZBV G54	0.016
Blue	5			ZBV G64	0.016
Integral LED (to combine with heads for integral LED)	~ 230...240 (50/60 Hz)			White	5
		Green	5	ZBV M34	0.016
		Red	5	ZBV M44	0.016
		Orange	5	ZBV M54	0.016
		Blue	5	ZBV M64	0.016



#### 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.






# Control and signalling units Ø 22

Harmony® XB4, metal

Body/contact assemblies + light blocks with integral LED

To combine with:  
heads, see pages 23 to 39  
contacts, see page 44

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		



ZB4 BW0●●3



**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 44.

To combine with:  
heads, see pages 23 to 39  
contacts, see page 44



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					kg
		N/O	N/C			
<b>Direct supply (continued)</b>						
Integral LED	~ 230...240 (50/60 Hz)	1	–	White	<b>ZB4 BW0M11</b>	0.064
				Green	<b>ZB4 BW0M31</b>	0.064
				Red	<b>ZB4 BW0M41</b>	0.064
				Orange	<b>ZB4 BW0M51</b>	0.064
				Blue	<b>ZB4 BW0M61</b>	0.064
		–	1	White	<b>ZB4 BW0M12</b>	0.064
				Green	<b>ZB4 BW0M32</b>	0.064
				Red	<b>ZB4 BW0M42</b>	0.064
				Orange	<b>ZB4 BW0M52</b>	0.064
				Blue	<b>ZB4 BW0M62</b>	0.064
		2	–	White	<b>ZB4 BW0M13</b>	0.074
				Green	<b>ZB4 BW0M33</b>	0.074
				Red	<b>ZB4 BW0M43</b>	0.074
				Orange	<b>ZB4 BW0M53</b>	0.074
				Blue	<b>ZB4 BW0M63</b>	0.074
		1	1	White	<b>ZB4 BW0M15</b>	0.074
				Green	<b>ZB4 BW0M35</b>	0.074
				Red	<b>ZB4 BW0M45</b>	0.074
				Orange	<b>ZB4 BW0M55</b>	0.074
				Blue	<b>ZB4 BW0M65</b>	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 44.

# Control and signalling units Ø 22

## Harmony® XB4, metal

### Body/light assemblies for pilot lights with integral LED

To combine with:  
heads, see page 40  
contacts, see page 44

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	ZB4 BVJ1	0.054
		Green	ZB4 BVJ3	0.054
		Red	ZB4 BVJ4	0.054
		Orange	ZB4 BVJ5	0.054
		Blue	ZB4 BVJ6	0.054
		White	ZB4 BVV1	0.054
	≈ 24 (1) (50/60 Hz)	Green	ZB4 BVV3	0.054
		Red	ZB4 BVV4	0.054
		Orange	ZB4 BVV5	0.054
		Blue	ZB4 BVV6	0.054
		≈ 24...120 (50/60 Hz)	White	ZB4 BVBG1
	Green		ZB4 BVBG3	0.054
	Red		ZB4 BVBG4	0.054
	Orange		ZB4 BVBG5	0.054
	Blue		ZB4 BVBG6	0.054
	~ 110...120 (1) (50/60 Hz)	White	ZB4 BVG1	0.054
		Green	ZB4 BVG3	0.054
		Red	ZB4 BVG4	0.054
Orange		ZB4 BVG5	0.054	
Blue		ZB4 BVG6	0.054	
~ 230...240 (1) (50/60 Hz)	White	ZB4 BVM1	0.054	
	Green	ZB4 BVM3	0.054	
	Red	ZB4 BVM4	0.054	
	Orange	ZB4 BVM5	0.054	
	Blue	ZB4 BVM6	0.054	

(1) Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 48.

To combine with:  
heads, see page 40  
contacts, see page 44



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 <b>Protected LED</b>	≈ 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 <b>Protected LED</b>	≈ 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
		Blue	ZB4 BV18B6	0.054
	≈ 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
		Blue	ZB4 BV18G6	0.054
	≈ 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
		Blue	ZB4 BV18M6	0.054

(1) For a ~ 120 or 230 V supply, use complete body ZB4 BVG or ZB4 BVM with block for "test light" function type ZBZ M156, see page 40 and 45.

To combine with:  
heads, see page 25  
contacts, see page 44

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
						
	V	N/O	N/C			kg
<b>Direct supply</b>						
BA9s base fitting bulb, 2.4 W max, not included <sup>(2)</sup>	≤ 250	1	–	–	ZB4 BW061	0.063
		–	1	–	ZB4 BW062	0.063
		2	–	–	ZB4 BW063	0.073
		1	1	–	ZB4 BW065	0.073
<b>Supply via integral transformer (1.2 VA, 6 V secondary)</b>						
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 ~ 220...240 60 Hz	1	–	–	ZB4 BW041	0.141
		1	1	–	ZB4 BW045	0.151
		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 ~ 220...240 60 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
	~ 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	



ZB4 BW06●



ZB4 BW0●5

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

<sup>(1)</sup> Can be fitted with additional contact blocks: see page 44.  
<sup>(2)</sup> Bulb to be ordered separately: see page 66.

To combine with:  
heads, see page 41  
contacts, see page 44

**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 BV5	0.131
	~ 440...480 - 60 Hz	–	ZB4 BV8	0.128
	~ 550...600 - 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 66.

**Other versions** Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 48.



ZB4 BV6



ZB4 BV●



ZB4 BV156

## Pushbutton caps - unmarked

For use with	Type of push	Colour	Sold in lots of	Unit reference	Weight kg	
ZB4 BA0 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		



ZBA ●



ZBL ●

## Pushbutton caps - marked

For use with	Type of push	Marking		Colour of cap	Unit reference	Weight kg
		Text	Colour			
ZB4 BA0 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
		⊕ (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	Black	ZBA 232	0.001
		ARRET	White	Red	ZBA 433	0.001
			Black	Black	ZBA 233	0.001
		STOP (2)	White	Red	ZBA 434	0.001
			Black	Black	ZBA 234	0.001
		OFF	White	Red	ZBA 435	0.001
			Black	Black	ZBA 235	0.001
		⚠ (2)	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°



ZBA ●333

814334



ZBP 0

**Transparent boots for pushbuttons (1)**

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

**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
<b>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 (2)	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
<b>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
	Pushbuttons, illuminated, with flush push	White	10	ZBW 911
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

814335



ZBV 01●3

814337



ZBV 01●

(1) Boots for multiple-headed pushbuttons: see page 27

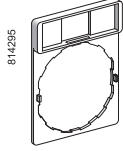
(2) Clear, green, red, orange, blue.



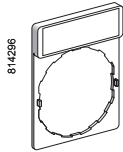
# Control and signalling units Ø 22

Harmony® XB4 metal

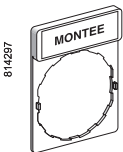
8 x 27 mm legends with 30 x 40 mm legend holders



ZBZ 32



ZBY 101



ZBY 2107

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends <sup>(1)</sup>							
Description	Legend		Sold in lots of	Unit reference	Weight kg		
	Colour	Marking					
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 (2)	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		
DEFAUT (black background)	1			ZBY 2134	0.002		
DEFAUT (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		
ENCLANCHEMENT	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			

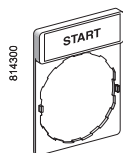
(1) For legends, see pages 60 to 62.

(2) "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® XB4 metal

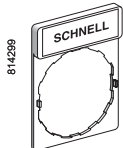
### 8 x 27 mm legends with 30 x 40 mm legend holders



ZBY 2303

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

Description	Legend Colour	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



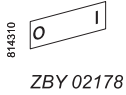
ZBY 2228

(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)

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)

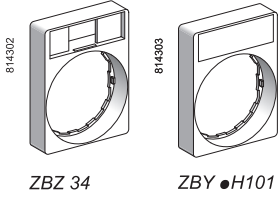
Colour	Marking	Reference	Weight kg			
Black or red background (1)	English	AUTO-HAND	ZBY 02364	0.001		
		AUTO-O-HAND	ZBY 02385	0.001		
		CLOSE	ZBY 02314	0.001		
		DOWN	ZBY 02308	0.001		
		EMERGENCY STOP	ZBY 02330	0.001		
		FAST	ZBY 02328	0.001		
		FORWARD	ZBY 02305	0.001		
		HAND	ZBY 02316	0.001		
		HAND-OFF-AUTO	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		
		Yellow background	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).

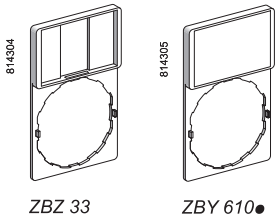
# Control and signalling units Ø 22

Harmony® XB4 metal

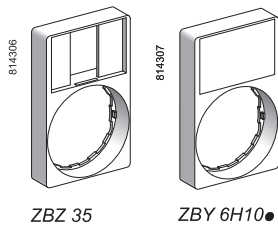
Legend holders for 8 x 27 or 18 x 27 mm legends for engraving or printing



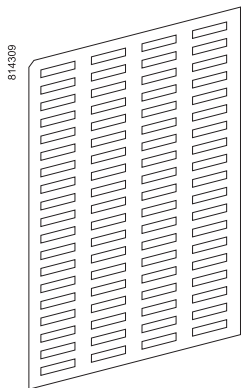
30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends				
Description	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	–	10	ZBZ 34	0.003
With blank legend	Black or red background	10	ZBY 2H101	0.004
	White or yellow background	10	ZBY 4H101	0.004



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

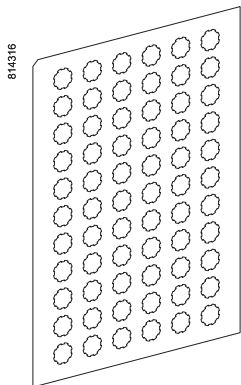


Legends for engraving					
Description mm	For use with	Colour	Sold in lots of	Unit reference	Weight kg
8 x 27	30 x 40 mm legend holder	Black or red background	10	ZBY 0101	0.001
		White or yellow background	10	ZBY 0102	0.001
18 x 27	30 x 50 mm legend holder	Black or red background	10	ZBY 5101	0.001
	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

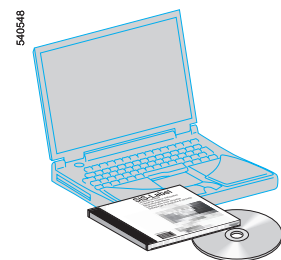
Sheets of peel-off legends (with backing board and protective transparent cover)				
Description	For use with	Sold in lots of	Unit reference	Weight kg
Sheet of 76 legends 8 x 27 mm	30 x 40 mm legend holder ZBZ 32 and ZBZ 34	10	ZBY 4100	0.043
Sheet of 40 legends 18 x 27 mm	30 x 50 mm legend holder ZBZ 33 and ZBZ 35	10	ZBY 5100	0.044

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

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
	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
	English	MONTEE	10	ZBY 1107	0.017
		HAND	10	ZBY 1316	0.017
		OFF	10	ZBY 1312	0.017
		ON	10	ZBY 1311	0.017
German	START	10	ZBY 1303	0.017	
	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



ZBY 1101



ZBY 2U

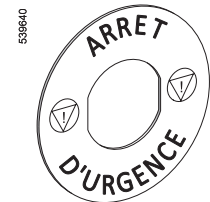
### “SIS Label” labelling software

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

### Circular, yellow legends for mushroom head pushbuttons

#### Used for “Emergency stop” function

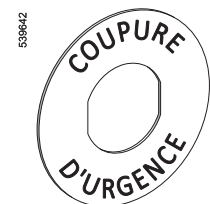
Diameter mm	Conforming to standards	Marking on yellow background	Reference	Weight kg
60	EN/IEC 60204-1 and EN/ISO 13850:2006	–	ZBY 9140	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		NOT-HALT	ZBY 9230	0.004
		PARADA DE EMERGENCIA	ZBY 9430	0.004
		ARRESTO DE EMERGENZA	ZBY 9630	0.004
		90	EN/IEC 60204-1 and EN/ISO 13850:2006	–
ARRET D'URGENCE	ZBY 8130			0.008
EMERGENCY STOP	ZBY 8330			0.008
NOT-HALT	ZBY 8230			0.008
PARADA DE EMERGENCIA	ZBY 8430			0.008
ARRESTO DE EMERGENZA	ZBY 8630			0.008



ZBY 9130

#### Used for “Emergency switching off” function

Diameter mm	Conforming to standards	Marking on yellow background	Reference	Weight kg
60	EN/IEC 60204-1	–	ZBY 9101	0.004
		COUPURE D'URGENCE	ZBY 9160	0.004
		EMERGENCY SWITCHING OFF	ZBY 9360	0.004
		NOT-AUS	ZBY 9260	0.004
		DESCONEXION DE EMERGENCIA	ZBY 9460	0.004
		INTERRUZIONE DI EMERGENZA	ZBY 9660	0.004
90	EN/IEC 60204-1	–	ZBY 8101	0.008
		COUPURE D'URGENCE	ZBY 8160	0.008
		EMERGENCY SWITCHING OFF	ZBY 8360	0.008
		NOT-AUS	ZBY 8260	0.008
		DESCONEXION DE EMERGENCIA	ZBY 8460	0.008
		INTERRUZIONE DI EMERGENZA	ZBY 8660	0.008



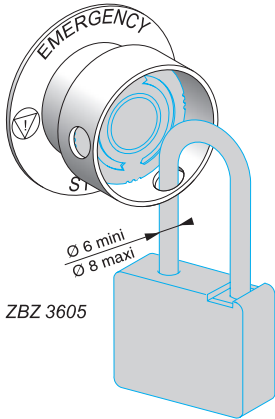
ZBY 9160

New

General :  
page 6

Characteristics :  
page 14

Dimensions :  
page 68



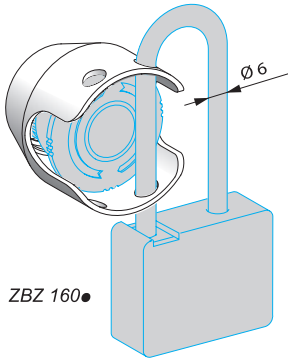
ZBZ 3605



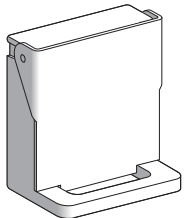
ZBY 9130T



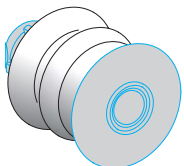
ZBY 9160T



ZBZ 160



ZB4 BZ64



ZBZ 8

### Accessories for mushroom head pushbuttons

Used for "Emergency stop" (1) or "Emergency switching off" function (2)

Description	For use with	Colour	Reference	Weight kg
<b>Padlocking kit (3) (4)</b> (padlockable)	Emergency stop (1) and Emergency switching off function (2), only with the following Ø 40 trigger action pushbuttons: XB4 BS844, XB4 BS9445, 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 ZBZ 3605</b> For Emergency stop function (1)	Without	Yellow	<b>ZBY 9140T</b>	0.004
	ARRET D'URGENCE	Yellow	<b>ZBY 9130T</b>	0.004
	EMERGENCY STOP	Yellow	<b>ZBY 9330T</b>	0.004
<b>Ø 60 mm legend for padlocking device ZBZ 3605</b> For Emergency switching off function (2)	Without	Yellow	<b>ZBY 9101T</b>	0.004
	COUPURE D'URGENCE	Yellow	<b>ZBY 9160T</b>	0.004
	EMERGENCY SWITCHING OFF	Yellow	<b>ZBY 9360T</b>	0.004
<b>Metal guards</b> Padlockable (4)	Emergency stop function (1), only with the following Ø 40 trigger action pushbuttons; XB4 BT845, XB4 BS844, XB4 BS9445, ZB4 BT84, ZB4 BS844, ZB4 BS944.	Chromium plated	<b>ZBZ 1600</b>	0.046
		Black	<b>ZBZ 1602</b>	0.046
		Red	<b>ZBZ 1604</b>	0.046
		Blue	<b>ZBZ 1606</b>	0.046

Description	For use with	Colour	Reference	Weight kg
<b>Plastic guard</b>	Selector switches and key switches	Black	<b>ZBZ 2102</b>	0.005
<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

### Other accessories

Description	Application	Material	Colour	Sold in lots of	Unit reference	Weight kg
<b>Bellows seals for harsh environments (IP 69K) (5)</b>	Environments subject to humidity, dust, high-pressure cleaning etc...	Silicone	Red	2	<b>ZBZ 48</b>	0.009
			Black	2	<b>ZBZ 28</b>	0.009
			EPDM	2	<b>ZBZ 58</b>	0.009

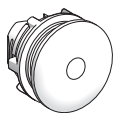
(1) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850:2006.

(2) Ensures conformity with standard EN/IEC 60204-1.

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

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

(5) Only when mounted on control stations. Use special legends **ZBY 9**.



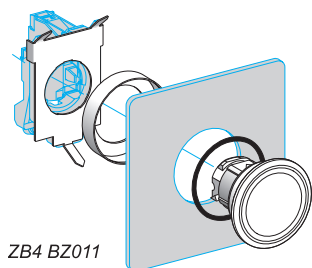
ZB5 SZ3

#### Other accessories (continued)

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

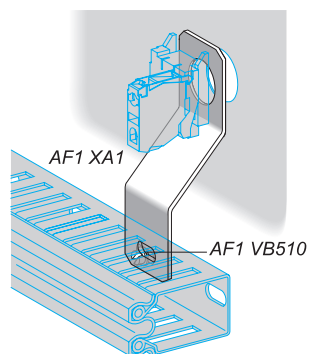
Black plastic circular blanking plug (with fixing nut)	Ø 22 control and signalling units	Black	10	ZB5 SZ3	0.009
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Liquid spray protective washer to be fitted under the head	Ø 22 control and signalling units	Chromium plated	50	ZB4 BZ007	0.010
		Black	50	ZB4 BZ0077	0.010



ZB4 BZ011

Flush mounting kit	Pushbutton ZB4 B● with head mounted flush with bezel	Chromium plated		ZB4 BZ011	0.007
		Black		ZB4 BZ0117	0.007



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 XB 4B 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 47.





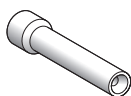
DL1 CJ0●●●



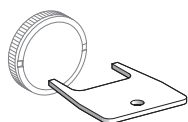
DL1 CE●●●



DL1 CF●●●



XBF X13



ZBZ 8

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

Description	Characteristics	Colour	Sold in lots of	Reference unit	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	

## Replacement keys

Description	Key number	Reference	Weight kg
<b>For latching mushroom head pushbuttons and selector 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

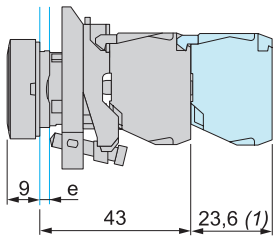
(1) Not compatible with products with key TEC10.



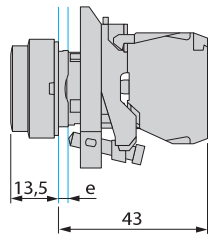
ZBG 455P

**Pushbuttons, spring return**

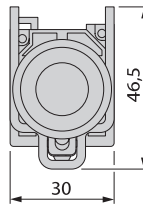
**XB4 BA●●**



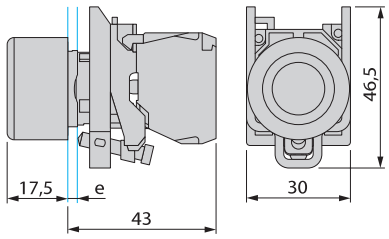
**XB4 BL●●**



Common face view



**XB4 BP●●**

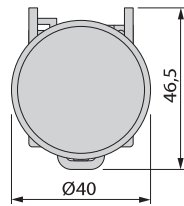
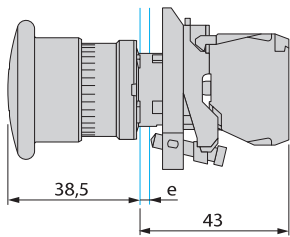


e: clamping thickness: 1 to 6 mm  
(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

**Mushroom head pushbuttons, spring return**

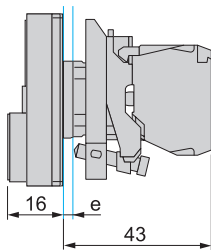
**XB4 BC21**



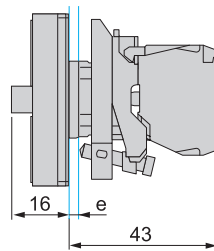
e: clamping thickness: 1 to 6 mm

**Multiple-headed pushbuttons (double or triple), spring return**

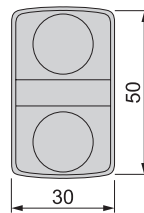
**XB4 BL73415, XB4 BW73731●5**



**XB4 BA731327, XB4 BA711237**



Common face view

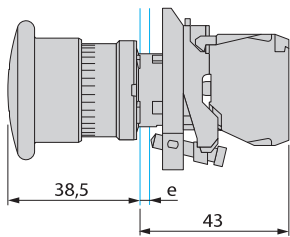


e: clamping thickness: 1 to 6 mm

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

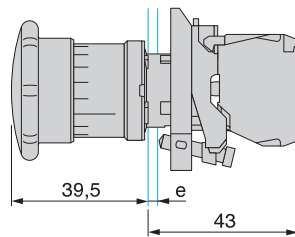
**Push-pull**

**XB4 BT845**



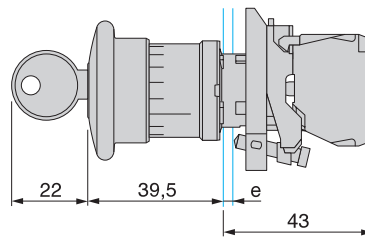
**Turn to release**

**XB4 BS84441, BS8444, BS8445**

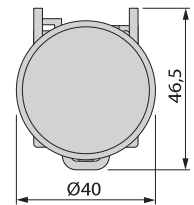


**Key release**

**XB4 BS9445**



Common face view



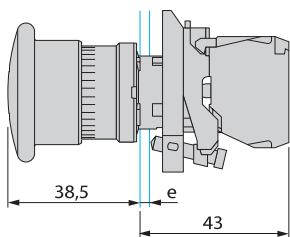
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

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

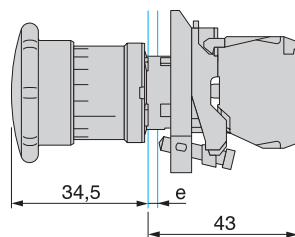
**Push-pull**

**XB4 BT42**



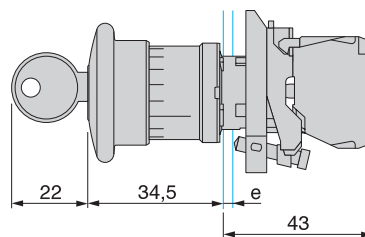
**Turn to release**

**XB4BS542**

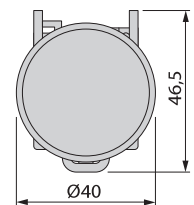


**Key release**

**XB4 BS142**



Common face view



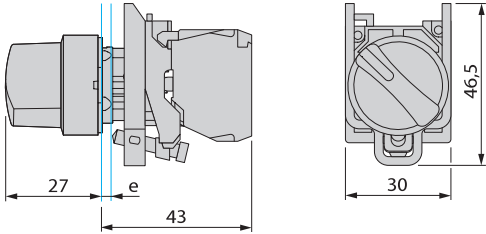
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

**Selector switches**

**Standard handle operator**

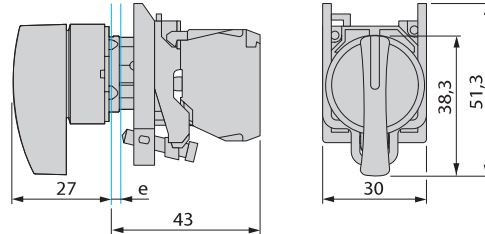
XB4 BD●●



e: clamping thickness: 1 to 6 mm

**Long handle operator**

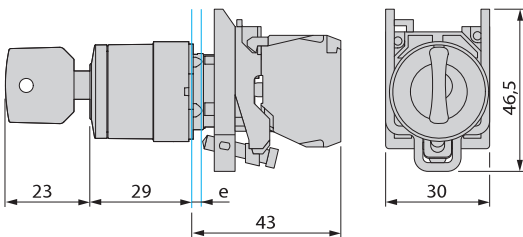
XB4 BJ●●



e: clamping thickness: 1 to 6 mm

**Key switches**

XB4 BG●●

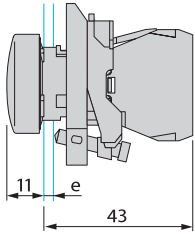


e: clamping thickness: 1 to 6 mm

#### Pilot lights

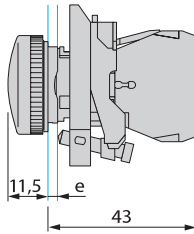
##### Integral LED

XB4 BVB●, BVG●, BVM●



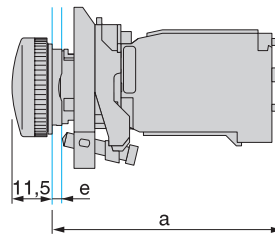
##### Direct supply

XB4 BV6●

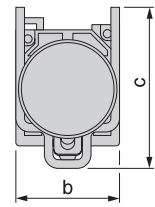


##### Via integral transformer

XB4 BV3●, BV4●



Common face view



	a	b	c
XB4 BV●●	66	30	46,5
XB4 BV5B●	89,6	40	46,5

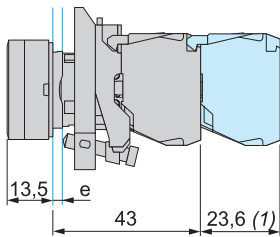
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

#### Illuminated pushbuttons, spring return

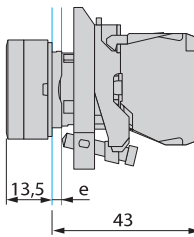
##### Integral LED

XB4 BWB3●●5



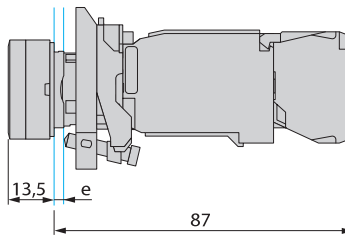
##### Direct supply

XB4 BW3●65

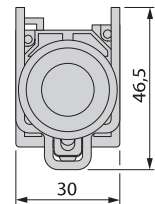


##### Via integral transformer

XB4 BW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

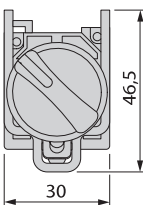
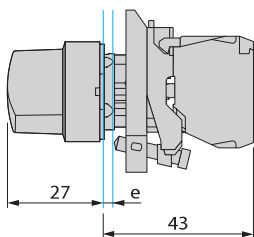
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact

#### Illuminated selector switches

##### Integral LED

XB4 BK12●●5

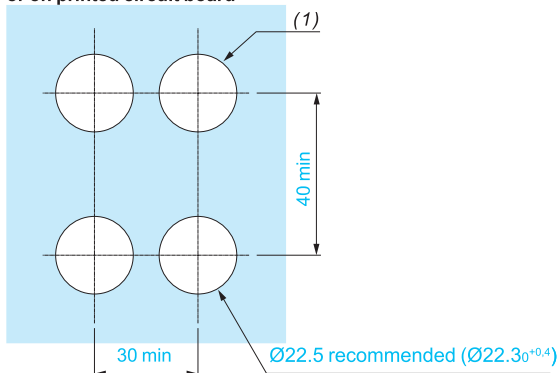


e: clamping thickness: 1 to 6 mm

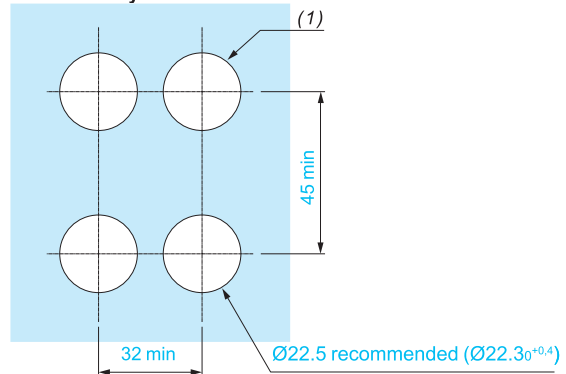
e: clamping thickness: 1 to 6 mm

#### 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



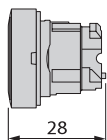
Connection by Faston connectors



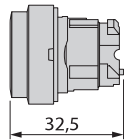
(1) Diameter on finished panel or support.

#### Heads for spring return pushbuttons

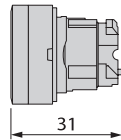
ZB4 BA●, ZB4 BA●●, ZB4 BA●8



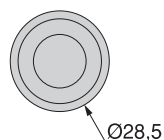
ZB4 BL●, ZB4 BL●●



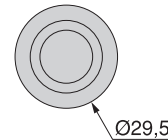
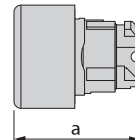
ZB4 BA●4, ZB4 BA●6



Common face view



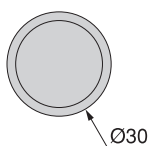
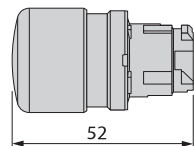
ZB4 BP●●, ZB4 BP●S, ZB4 BP●83, ZB4 BP●



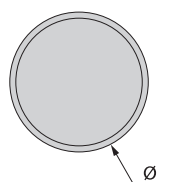
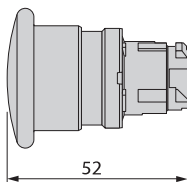
ZB4	a
BP●●	36.5
BP●S	33
BP●83	32
BP●	35

#### Mushroom heads for spring return pushbuttons

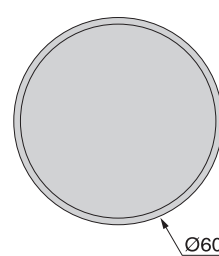
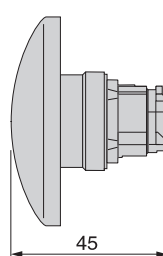
ZB4 BC●4



ZB4 BC●, ZB4 BR●



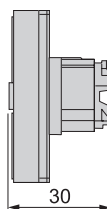
ZB4 BR●16



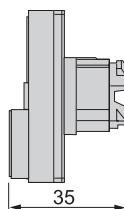
ZB4	Ø
BC●	40
BR●	60

#### Heads for double-headed, spring return pushbuttons

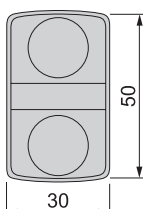
ZB4 BA712●, ZB4 BA734●, ZB4 BA79



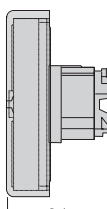
ZB4 BL734●



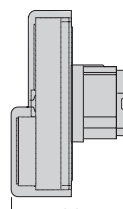
Common face view



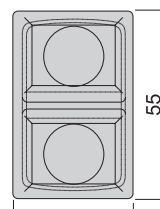
ZB4 BA712●, ZB4 BA734●, ZB4 BA79 + boot ZBA708



ZB4 BL734● + boot ZBA710

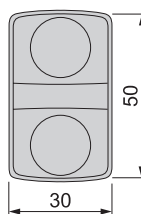
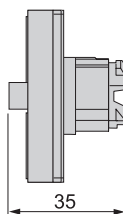


Common face view

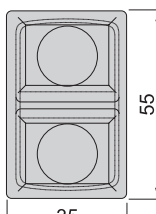
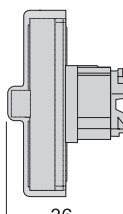


#### Heads for triple-headed, spring return pushbuttons

ZB4 BA7313●, ZB4 BA711●●, ZB4 BA72124, ZB4 BA791

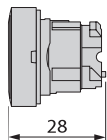


ZB4 BA7313●, ZB4 BA711●●, ZB4 BA72124, ZB4 BA791 + boot ZBA709

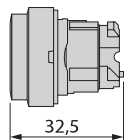


#### Heads for "push-push to release" pushbuttons

ZB4 BH0●



ZB4 BH●



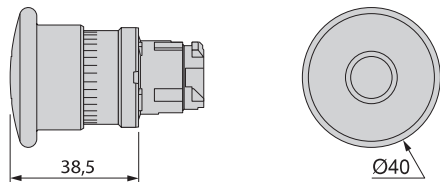
Common face view



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

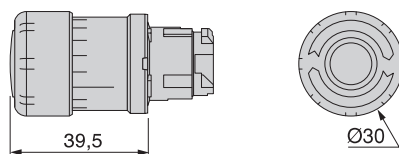
**"Push-pull"**

ZB4 BT84

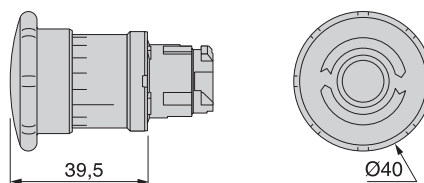


**Turn to release**

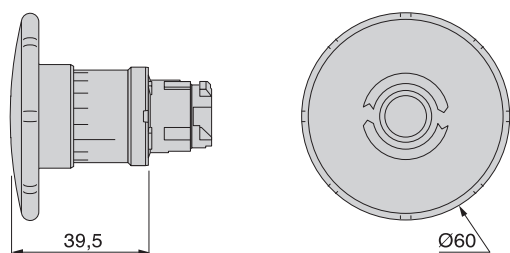
ZB4 BS834



ZB4 BS844

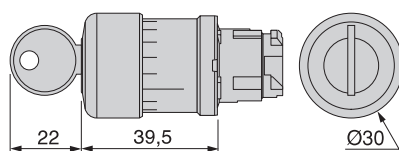


ZB4 BS864

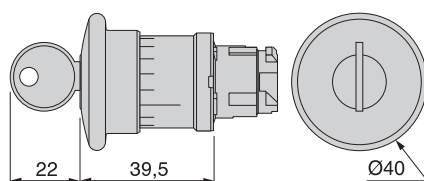


**Key release**

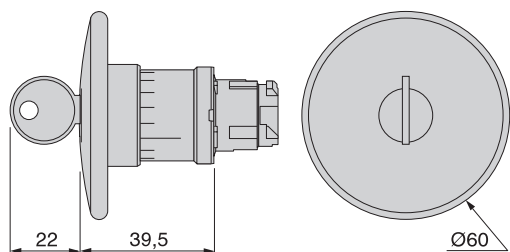
ZB4 BS934



ZB4 BS944



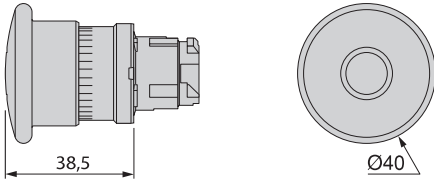
ZB4 BS964



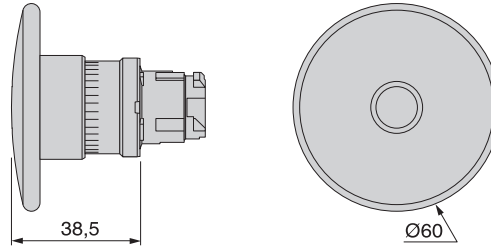
**Mushroom heads for Emergency switching off, mechanical latching pushbuttons**

**Push-pull**

ZB4 BT4

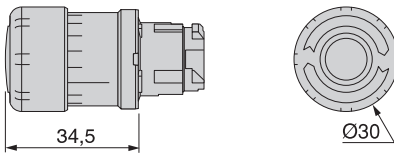


ZB4 BX4

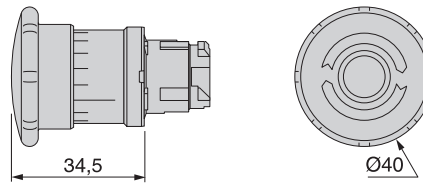


**Turn to release**

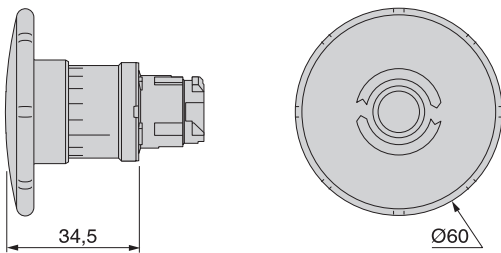
ZB4 BS44



ZB4 BS54

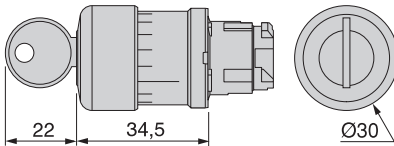


ZB4 BS64

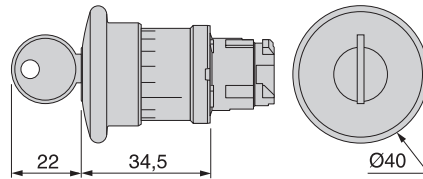


**Key release**

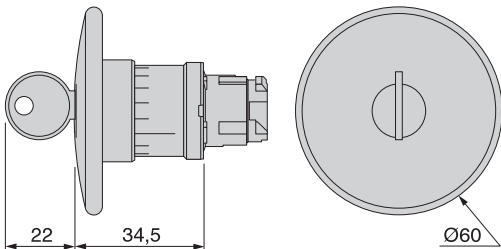
ZB4 BS74



ZB4 BS14



ZB4 BS24

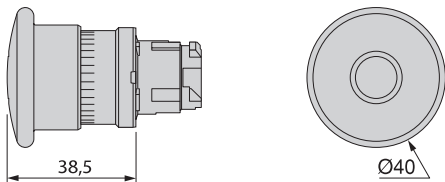




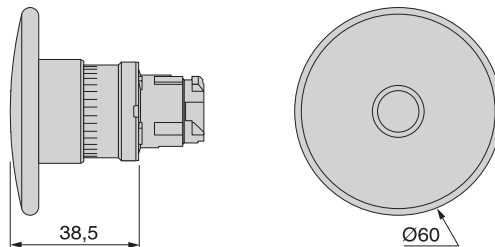
#### Mushroom heads for latching pushbuttons (1)

##### Push-pull

ZB4 BT2

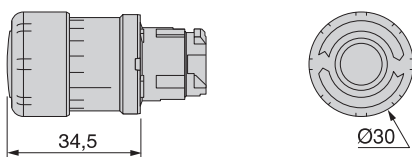


ZB4 BX2

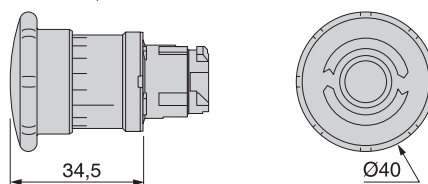


##### Turn to release

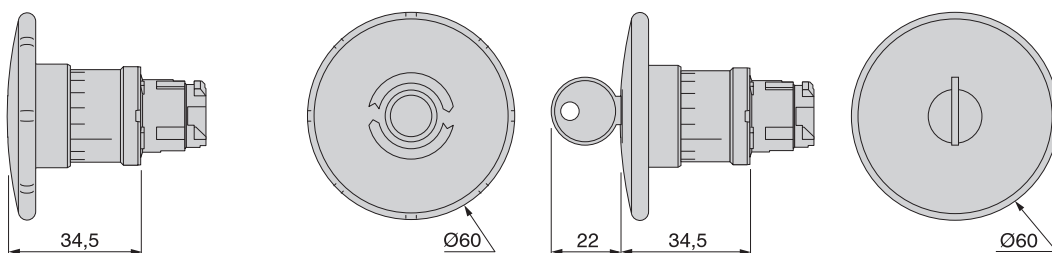
ZB4 BS42



ZB4 BS52, ZB4 BS55

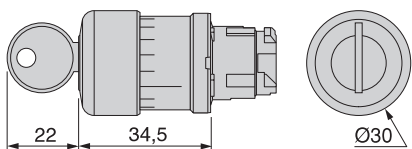


ZB4 BS62

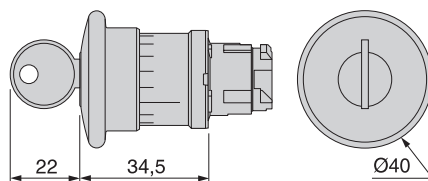


##### Key release

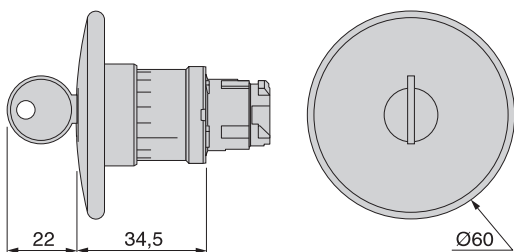
ZB4 BS72



ZB4 BS12



ZB4 BS22

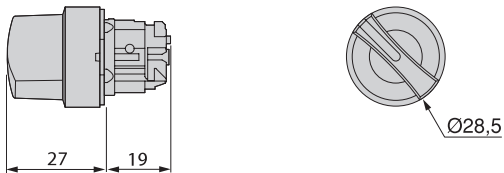


(1) Red mushroom heads for Emergency stop and Emergency switching off, latching pushbuttons: see pages 72 and 73.

#### Heads for selector switches

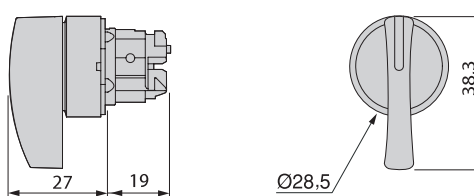
##### Standard handle operator

ZB4 BD●, ZB4 BD0●M



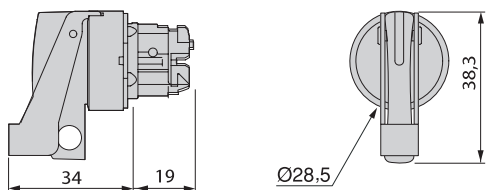
##### Long handle operator

ZB4 BJ●, ZB4 BD0●M



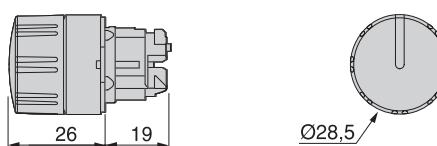
##### Padlockable long handle operator (6.35 mm shank max.)

ZB4 BJ●9●



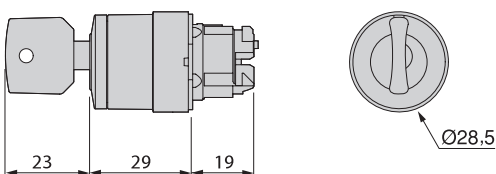
##### Black knurled knob

ZB4 BD●9



#### Key switches

ZB4 BG●, ZB4 BG0●, ZB4 BG0●M



#### Heads for toggle switches

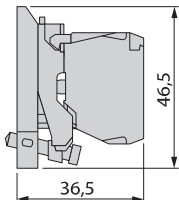
ZB4 BD●8



#### Bodies for pushbuttons and switches

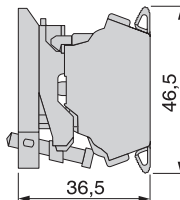
##### Screw clamp terminal connections

ZB4 BZ10●, ZB4 BZ141



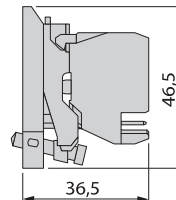
##### Spring terminal connections

ZB4 BZ10●5



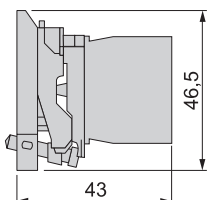
##### Plug-in connector

ZB4 BZ10●4, ZB4 BZ1414



#### High power switching with screw clamp terminal connections

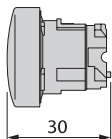
ZBE 50● block + ZB4 BZ009 body



## Heads for pilot lights, with light source

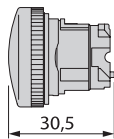
### Integral LED

ZB4 BV0●3, ZB4 BV0●3S

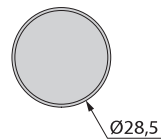


### Incandescent, neon or LED

ZB4 BV0●, ZB4 BV0●S



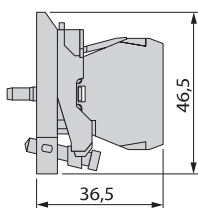
Common face view



## Bodies for pilot lights, screw clamp terminal connections

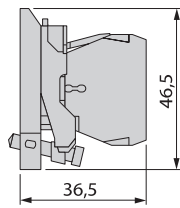
### Integral LED

ZB4 BV●●



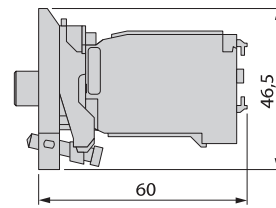
### Direct supply, for BA 9s bulb

ZB4 BV6



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

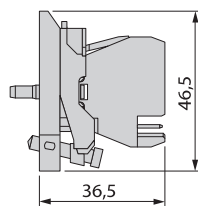
ZB4 BV●, ZB4 BV●D●



## Bodies for pilot lights, plug-in connector

### Integral LED

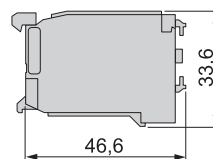
ZB4 BV●●4



## Transformer blocks

### For 24 V light blocks with integral LED

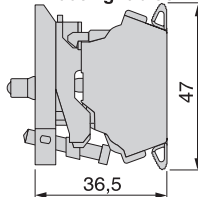
ZBV 5B, ZBV 8B, ZBV 9B



## Light blocks + body for pilot lights, spring terminal connections

### Integral LED

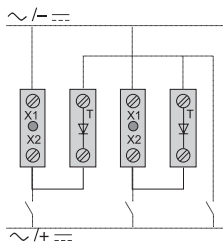
ZBV ●●5 light block + ZB4 BZ009 body



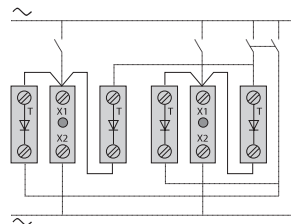
## Connections

### Blocks for "test light" function

ZBZ G156



ZBZ M156



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

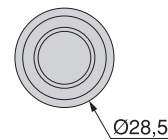
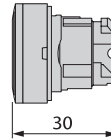
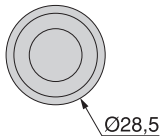
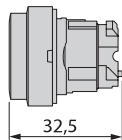
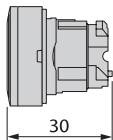
##### LED

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

ZB4 BW1●3, ZB4 BL●8

Common face view

ZB4 BW9●3

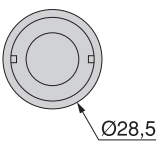
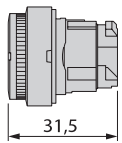
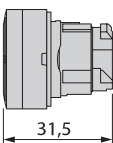


##### Incandescent or neon

ZB4 BW3●3, ZB4 BW3●S

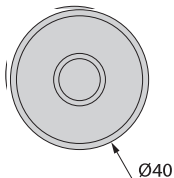
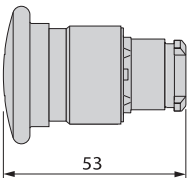
ZB4 BW1●

Common face view



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

ZB4 BW4●3, ZB4 BW6●3

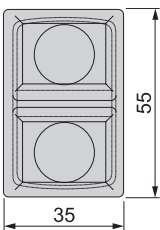
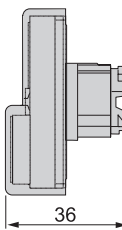
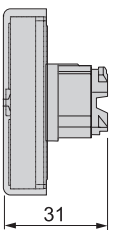


#### Heads for double-headed pushbuttons + pilot light

ZB4 BW7A374●,  
ZB4 BW7A17●●,  
ZB4 BW7A9

ZB4 BW7L374●

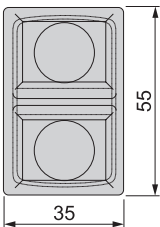
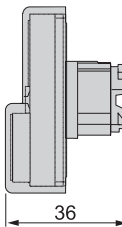
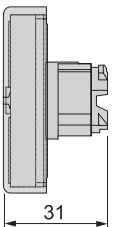
Common face view



ZB4 BW7A374●,  
ZB4 BW7A17●●,  
ZB4 BW7A9  
+ boot ZBA 708

ZB4 BW7L374●  
+ boot ZBA 710

Common face view

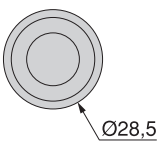
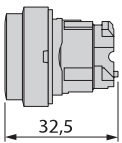
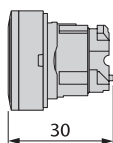


#### Heads for illuminated “push-push to release” pushbuttons

ZB4 BH0●3

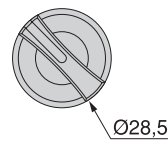
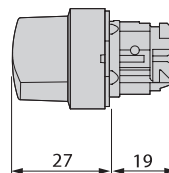
ZB4 BH●3

Common face view



#### Heads for illuminated selector switches with standard handle

ZB4 BK1●●●3

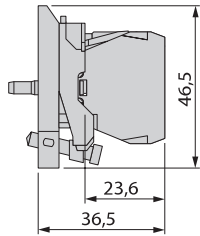


### Bodies for illuminated pushbuttons and switches

#### Screw clamp terminal connections

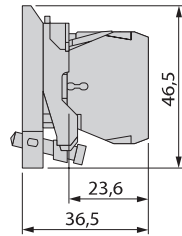
##### Integral LED

ZB4 BW0●●●



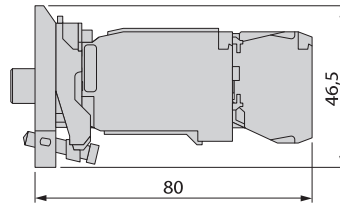
Direct supply, BA 9s bulb

ZB4 BW06●



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

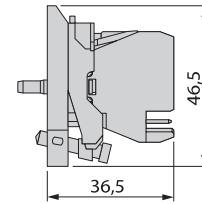
ZB4 BW0●●, BW0●D●●



#### Plug-in connector

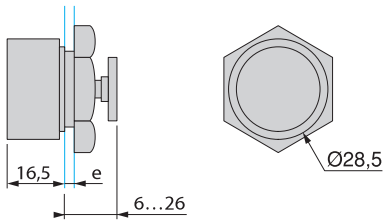
##### Integral LED

ZB4 BW0●●●4

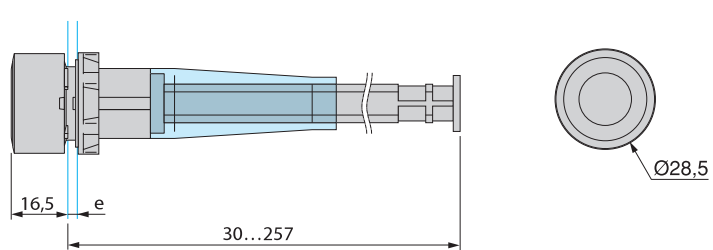


### Manual overload reset buttons

XB4 BA8●●



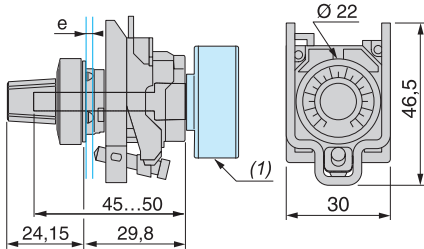
XB4 BA9●●



e: panel thickness 1 to 6 mm

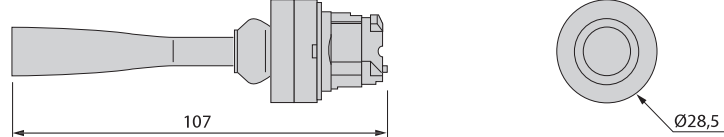
### Heads + mounting base for potentiometer

ZB4 BD9●2



### Wobblestick head

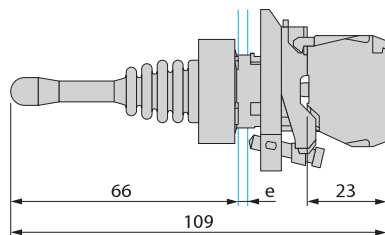
ZB4 BB●



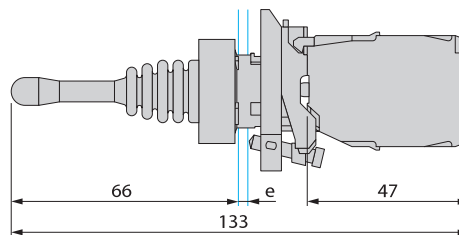
(1) Potentiometer not included.

### Joystick controllers

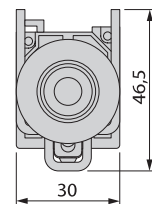
XD4 PA●2



XD4 PA●4



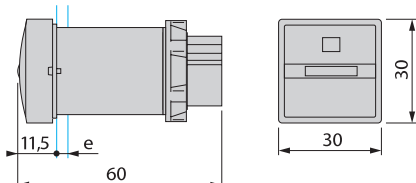
Common face view



e: panel thickness 1 to 6 mm

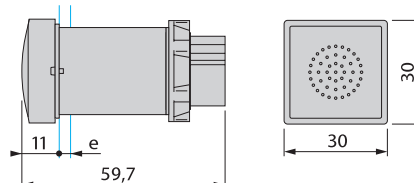
### Hour counters

XB5 DS●



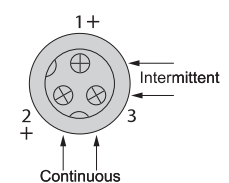
### Annunciators

XB5 KS●



### Cabling

XB5 KS●

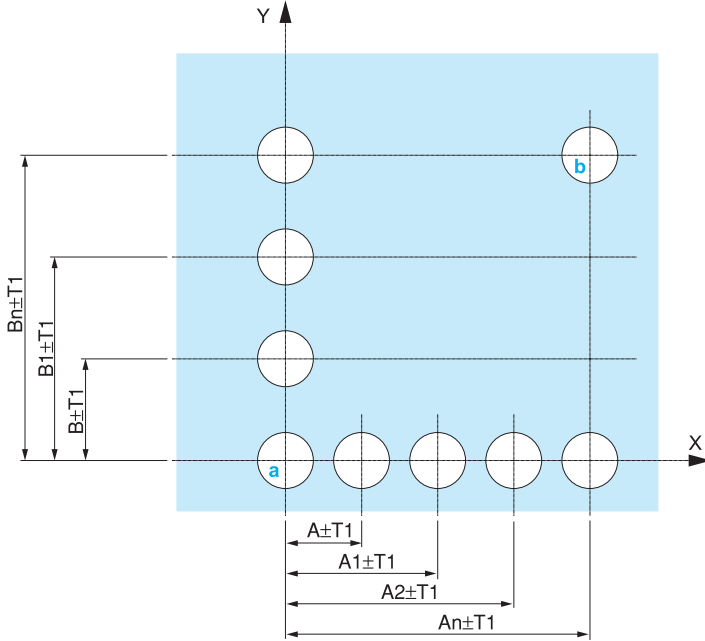


e: panel thickness 1 to 6 mm

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

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

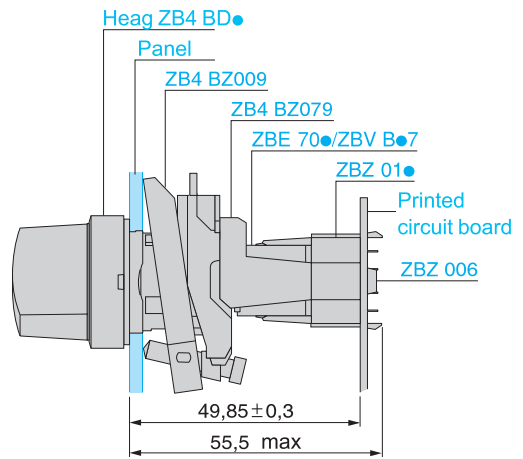
Dimensions in mm



#### ■ Installation precautions:

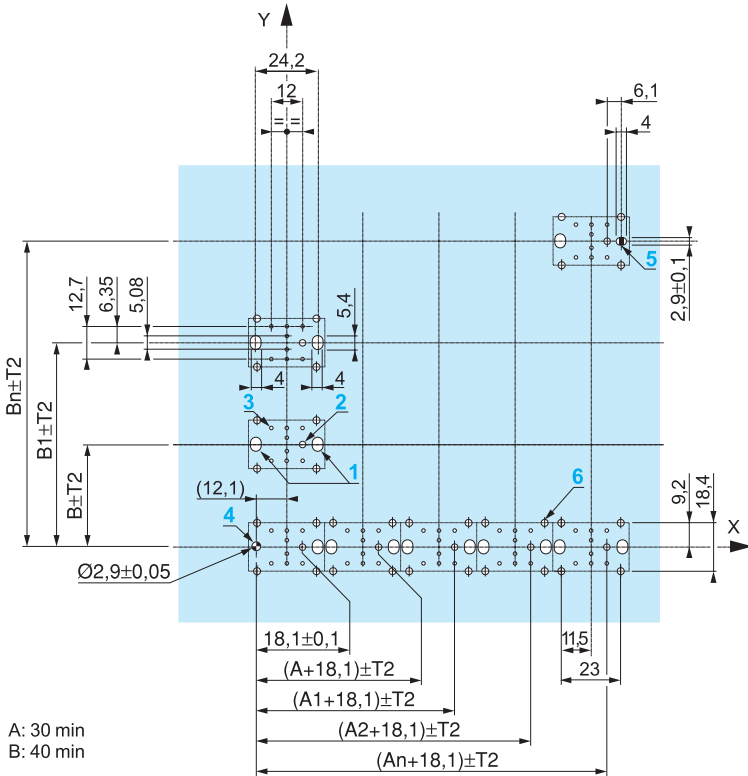
- Minimum thickness of circuit board: 1.6 mm.
- Cut-out diameter: 22.4 mm  $\pm$  0.1 mm.
- Orientation of body/fixing collar ZB4 BZ009:  $\pm$  2° 30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB4 BZ079 fixing collar/pillar and 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**.



#### Printed circuit board cut-outs (viewed from electrical block side)

Dimensions in mm



A: 30 min  
B: 40 min

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

- 1 2 elongated holes for ZBZ 006 screw access.
- 2 1 hole  $\varnothing$  2.4 mm  $\pm$  0.05 for centring adapter ZBZ 01●
- 3 8 x  $\varnothing$  1.2 mm holes.
- 4 1 hole  $\varnothing$  2.9 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 mm for clipping in adapter ZBZ 01●.

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

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

The cumulative tolerance must not exceed 0.3 mm:  $T_1 + T_2 = 0.3$  mm max.

# Control and signalling units Ø 22

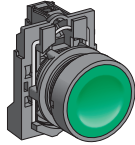
Harmony® XB5, plastic

Pushbuttons, switches and pilot lights

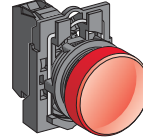
**Description**

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

**Complete units, XB5 A**

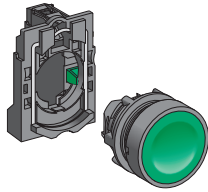


Pushbuttons and switches

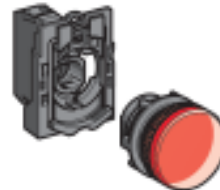


Pilot lights

**Sub-assemblies, ZB5 A**

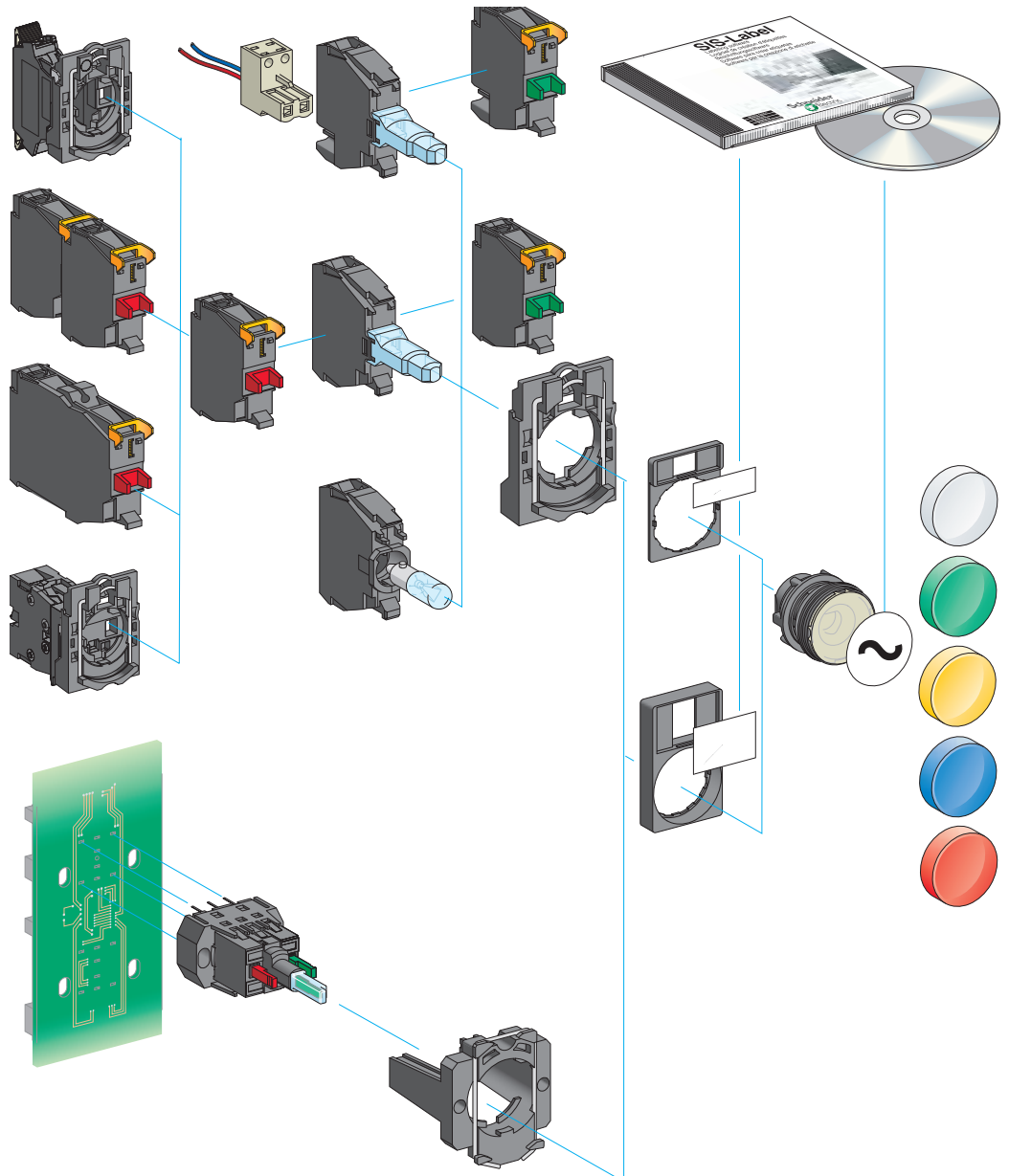


Pushbuttons and switches:  
body + head sub-assemblies



Pilot lights:  
body + head sub-assemblies

**ZB component parts and accessories**



#### Schematic library

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

<b>Pushbutton N/O contact</b>	<b>Pushbutton N/C contact</b>	<b>Mushroom head spring return N/O contact</b>	<b>Emergency switching off mushroom head pushbutton - Push-pull N/C contact</b>
<b>Emergency stop trigger action mushroom head - Push-pull N/O + N/C contacts</b>	<b>Emergency switching off mushroom head - Turn to release N/C contact</b>	<b>Emergency switching off mushroom head - Turn to release, with key N/C contact</b>	<b>Emergency stop trigger action mushroom head - Turn to release N/O + N/C contacts</b>
<b>Emergency stop trigger action mushroom head Turn to release, with key N/O + N/C contacts</b>	<b>Double-headed pushbutton N/O + N/C contacts</b>	<b>Early make contact block N/O + N/C contacts</b>	<b>Late break contact block N/C contact</b>

#### Contact functions (selector switches)

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

#### Signalling functions

<b>Pilot light with BA 9s incandescent bulb</b>	<b>LED pilot light</b>	<b>Pilot light with integral transformer 230 V primary, 6 V secondary BA 9s bulb, incandescent or LED</b>

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

<b>Illuminated pushbutton, BA 9s incandescent bulb N/O+N/C contacts</b>	<b>Illuminated pushbutton LED - N/O+ N/C contacts</b>	<b>Illuminated pushbutton with integral transformer 230 V ~ 50/60 Hz primary, 6 V secondary BA 9s bulb, incandescent or LED - N/O+ N/C contacts</b>
<b>Double-headed pushbutton with LED pilot light</b>		<b>Illuminated selector switch with LED, 2-position stay put N/O + N/C contacts</b>

#### Joystick controller functions

<b>2 direction</b>	<b>4 direction</b>
<b>Without spring return    With spring return</b>	<b>Without spring return    With spring return</b>



# Control and signalling units Ø 22

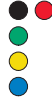
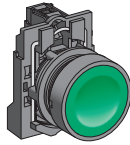
Harmony® XB5, plastic

Pushbuttons, switches and pilot lights:  
complete units, XB5 A

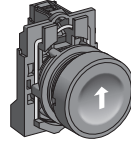
## Complete units

## Contact functions

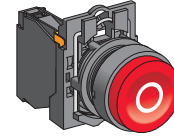
### Pushbuttons, spring return



Flush push, unmarked  
XB5 AA●1/AA42  
see page 94



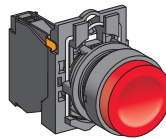
Flush push, with marking  
XB5 AA3311/AA33●1  
see page 98



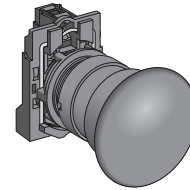
Projecting push, with marking  
XB5 AL4322  
see page 98



Booted flush push  
XB5 AP●1/AP42  
see page 97



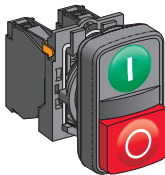
Projecting push, unmarked  
XB5 AL42  
see page 96



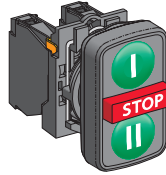
Ø 40

Mushroom head  
XB5 AC21  
see page 104

### Multiple-headed pushbuttons, spring return

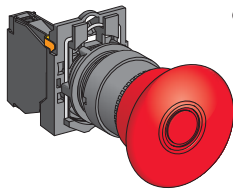


Double-headed  
XB5 AL73415  
see page 102



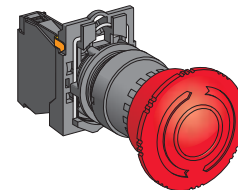
Triple-headed  
XB5 AA731327/XB5 AA711237  
see page 103

### Emergency Stop or Emergency switching off mushroom head pushbuttons, Ø 40



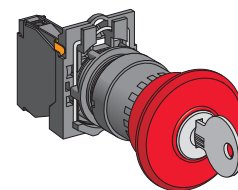
Ø 40

Emergency stop trigger action and mechanical latching  
Push-pull (EN/ISO 13850: 2006)  
XB5 AT845  
see page 106



Ø 40

Emergency stop trigger action and mechanical latching  
Turn to release (EN/ISO 13850: 2006)  
XB5 AS8●4  
see page 106



Ø 40

Emergency stop trigger action and mechanical latching  
Key release (EN/ISO 13850: 2006)  
XB5 AS9445  
see page 106

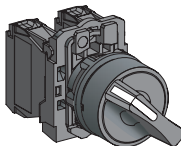
### Emergency switching off mechanical latching

Emergency switching off mechanical latching  
Push-pull (IEC 60364-5-53)  
XB5 AT42  
see page 107

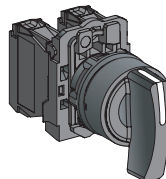
Emergency switching off mechanical latching  
Turn to release (IEC 60364-5-53)  
XB5 AS542  
see page 107

Emergency switching off mechanical latching  
Key release (IEC 60364-5-53)  
XB5 AS142  
see page 107

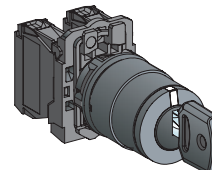
### Selector switches and key switches



Standard handle, black  
XB5 AD●●  
see page 110



Long handle, black  
XB5 AJ●●  
see page 111

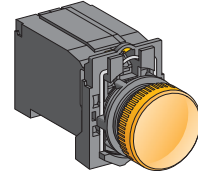
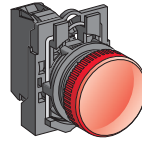
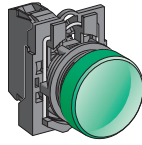


Key switch  
XB5 AG●●  
see page 112

## Complete units

(continued)

### Pilot lights



Integral LED

**XB5 AVB●/AVG●/AVM●**  
see page 116

For bulb with BA 9s base fitting  
Direct supply

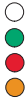
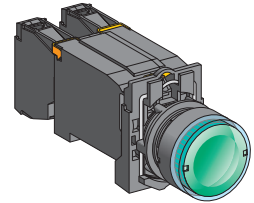
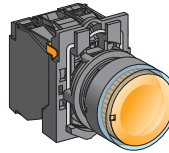
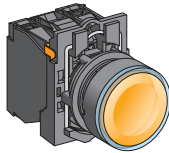
**XB5 AV6●**  
see page 117

Via integral transformer

**XB5 AV3●/AV4●**  
see page 117

## Combined functions (contact + signalling)

### Illuminated pushbuttons, spring return, flush push



Integral LED

**XB5 AW3●B5/AW3●G5/AW3●M5**  
see page 99

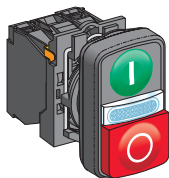
For bulb with BA 9s base fitting  
Direct supply

**XB5 AW3●65**  
see page 101

Via integral transformer

**XB5 AW3●35/AW3●45**  
see page 101

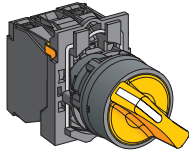
### Double-headed pushbuttons, spring return, + pilot light block



Integral LED

**XB5 AW73731●5**  
see page 102

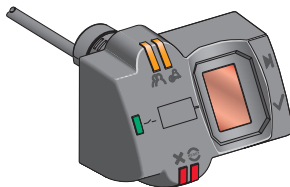
### Illuminated selector switches, standard handle



Integral LED

**XB5 AK1●●3**  
see page 115

### Fingerprint reader biometric switches



Bistable or monostable type, 24 V d.c.

**XB5 S0B●●●●●**  
see page 158

# Control and signalling units Ø 22

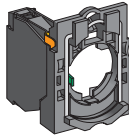
Harmony® XB5, plastic

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

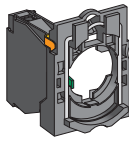
## Non illuminated units for user assembly

For pushbuttons, spring return, unmarked

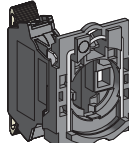
### Body sub-assemblies



Screw clamp terminals  
ZB5 AZ10●/AZ141  
page 120



Faston  
ZB5 AZ10●3  
page 124



Spring clamp terminals  
ZBE 10●5  
ZB5 AZ10●5  
page 122

For pushbuttons, spring return, with marking

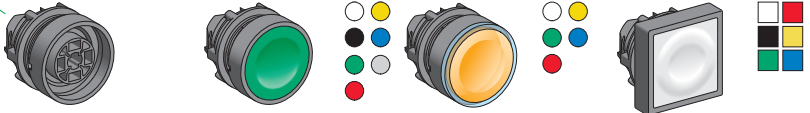
For multiple-headed pushbuttons, spring return

For "push-push to release" pushbuttons

For "push-turn to release" pushbuttons

## Contact functions

### Head sub-assemblies



Flush push without cap/with set of 6 caps  
ZB5 AA0/AA9  
page 94

Flush push  
ZB5 AA●  
page 94

Flush push for insertion of legend  
ZB5 AA●8  
page 94

Flush push, cap mounted/not mounted  
ZB5 CA0/CA●  
page 94



Projecting  
ZB5 AL●  
page 96

Recessed push  
ZB5 AA●  
page 95

Booted flush push, for insertion of legend  
ZB5 AP●●/AP●S  
page 97

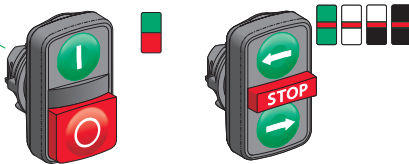
Projecting or recessed push  
ZB5 CA●/CL●  
page 95



Flush push  
ZB5 AA●3●/AA●4●  
page 98

Projecting push  
ZB5 AL●  
page 98

Flush push  
ZB5 CA●3●/ CA●9●  
page 98



Double-headed  
ZB5 AA7●●●/AA79  
ZB5 AL734●  
page 102

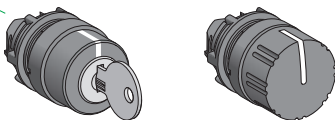
Triple-headed  
ZB5 AA7313●, ZB5 AA711●●  
ZB5 AA72124, ZB5 AA791  
page 103



Flush push (caps mounted/not mounted)  
ZB5 AH●●/CH●●  
page 108

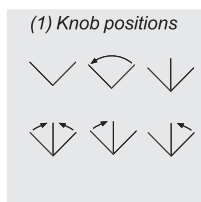
Projecting push  
ZB5 AH●  
page 108

Flush push (caps mounted/not mounted)  
ZB5 CH0/CH0●  
page 108



Key switches  
ZB5 AFD●  
page 109

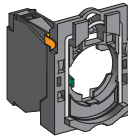
Knurled knob (1)  
ZB5 AF  
page 109



**Non illuminated units for user assembly**  
(continued)

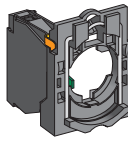
For mushroom head pushbuttons

**Body sub-assemblies**



Screw clamp terminals  
ZB5 AZ10●/AZ141  
page 120

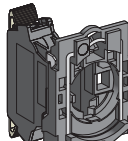
For Emergency Stop or Emergency switching off mushroom head pushbuttons



Faston  
ZB5 AZ10●3  
page 124

Emergency stop trigger action and mechanical latching

Emergency switching off mechanical latching



Spring clamp terminals  
ZBE 10●5  
ZB5 AZ10●5  
page 122

Emergency stop trigger action and mechanical latching

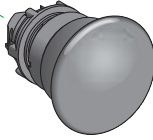
Emergency switching off mechanical latching

For selector switches and key switches

For toggle switches

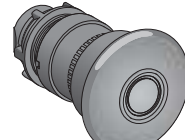
**Contact functions (continued)**

**Head sub-assemblies**



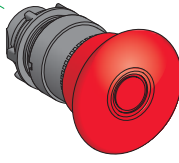
- ●
  - ●
  - ●
  - ●
- Ø 30  
Ø 40  
Ø 60

Spring  
ZB5 AC●/AR●  
see page 104



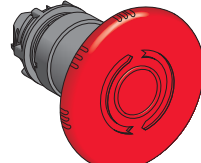
- -
- Ø 30  
Ø 40  
Ø 60

Latching  
ZB5 A●2/AS●2/AS55  
see page 105



- 
- Ø 30  
Ø 40  
Ø 60

Push-pull (EN/ISO 13850: 2006)  
ZB5 AT84  
see page 106

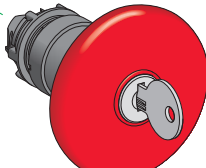


- 
- Ø 30  
Ø 40  
Ø 60

Turn to release (EN/ISO 13850: 2006)  
ZB5 AS8●4  
see page 106

Push-pull (IEC 60364-5-53)  
ZB5 AT●/AX●  
see page 107

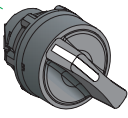
Turn to release (IEC 60364-5-53)  
ZB5 AS44/AS54/AS64  
see page 107



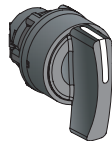
- 
- Ø 30  
Ø 40  
Ø 60

Key release (EN/ISO 13850: 2006)  
ZB5 AS9●4/AS944D, see page 106

Key release (IEC 60364-5-53)  
ZB5 AS●4/AS14D, see page 107

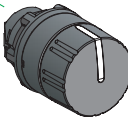


- ● ● ●
- ● ● ●

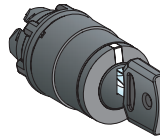


Standard handle (1)  
ZB5 AD●  
page 110

Long black handle (1)  
ZB5 AJ●  
page 111

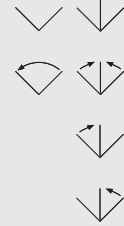


Knurled black knob (1)  
ZB5 AD●9  
page 113

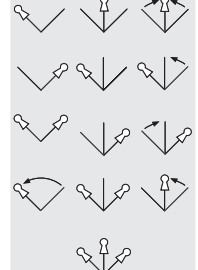


Key switch (2)  
ZB5 AG●●  
page 113

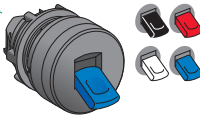
(1) Switch handle and knob positions



(2) Key switch positions  
Key withdrawal positions



(3) Lever positions

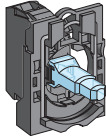


2-position lever (3)  
ZB5 AD●8  
see page 113

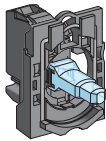
#### Pilot lights for user assembly

#### Signalling functions

##### Body sub-assemblies with integral LED

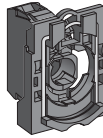


Connection: screw clamp terminals  
ZB5 AVB/AVG/AVM  
see page 128

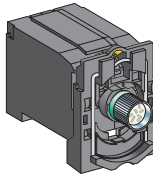


Connection: plug-in connector  
Please consult your Regional  
Sales Office

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

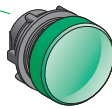


Direct supply  
Connection: screw clamp terminals  
ZB5 AV6, page 131

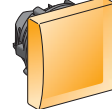


Via integral transformer  
Connection: screw clamp terminals  
ZB5 AV●/AV3D●/AV5D●  
page 131

##### Head sub-assemblies



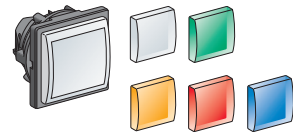
With lens fitted (insertion of legend)  
ZB5 AV0●3/AV0●3E, see page 116



With lens fitted  
ZB5 CV0●3, see page 116

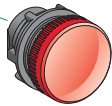


With 5 lens caps (not fitted) for insertion of legend  
ZB5 AV003/AV0●3●, see page 116



With 5 separate lens caps, not fitted  
ZB5 CV003, see page 116

##### Head sub-assemblies

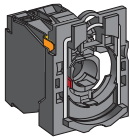


With lens fitted  
ZB5 AV0●, see page 117

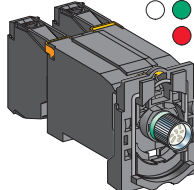
#### Illuminated pushbuttons for user assembly

#### Combined functions (contact + signalling)

For illuminated pushbuttons,  
spring return



Direct supply  
Connection: screw clamp terminals  
ZB5 AW06●, page 130



Via integral transformer  
Connection: screw clamp terminals  
ZB5 AW03/4/5/3D/4D/5D  
see page 130

##### Head sub-assemblies



Flush  
ZB5 AW3●/AW3●S, see page 100

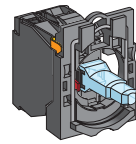


Projecting  
ZB5 AW1●/AW1●S, see page 100

## Illuminated pushbuttons for user assembly

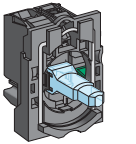
For illuminated pushbuttons, spring return

### Body sub-assemblies with integral LED



Connection: screw clamp terminals

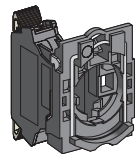
ZB5 AW0B/AW0G/AW0M see page 126



For double-headed pushbuttons, spring return, with pilot light

Connection: plug-in connector

Please consult your Regional Sales Office



For illuminated, mushroom head pushbuttons, latching

Connection: spring clamp terminals

ZBV ●●5 see page 122

For illuminated mushroom head pushbuttons

- Emergency Stop with trigger action and mechanical latching
- or
- Emergency switching off with mechanical latching only

For illuminated "push-push to release" pushbuttons

For illuminated selector switches, standard handle

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

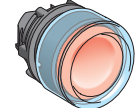
### Head sub-assemblies



Flush push  
Flush push with illuminated ring  
ZB5 AW3●3/AW3●3S/AW9●3  
see page 100



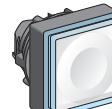
Flush push  
for insertion of legend  
ZB5 AA●8  
see page 100



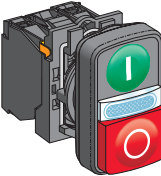
Booted flush push  
ZB5 AW5●3  
see page 100



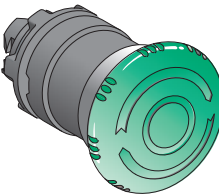
Projecting push  
ZB5 AW1●3/AW1●3S  
see page 100



Flush or projecting push  
Flush or projecting push for insertion of legend  
ZB5 CW3●3/CW1●3  
see page 100

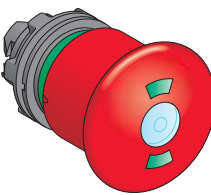


Double-headed (flush/flush push) + central pilot light  
Triple-headed (flush/projecting push) + central pilot light  
ZB5 AW7A17●●, ZB5 AW7A374●, ZB5 AW7A9, ZB5 AW7L374●, see page 102  
ZB5 AA7313●, ZB5 AA71●●●, ZB5 AA72124, ZB5 AA791, see page 103



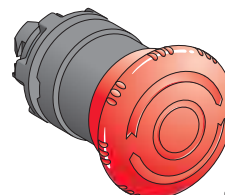
Ø 40

Turn to release  
ZB5 AW7●3, see page 105



Ø 40

Push-pull with mechanical state indicator (EN/ISO 13850:2006)  
ZB5 AT8643M  
see page 106



Ø 40

Turn to release (IEC 60364-5-53)  
ZB5 AW743  
see page 107



Flush or projecting "push-push to release"  
ZB5 AH0●3/AH●3  
see page 108



Flush "Push-push to release"  
ZB5 CH3●3  
see page 108



Standard handle (1)  
ZB5 AK1●●3  
see page 115

(1) Handle positions



Environment			
<b>Protective treatment</b>	Standard version		"TH" treatment
<b>Ambient air temperature</b> around the device	Storage	°C	- 40...+ 70
	Operation	°C	- 25...+ 70: LED and neon bulb versions - 25...+ 55: incandescent bulb version
<b>Electric shock protection</b>	Conforming to IEC 61140		Class II
<b>Degree of protection</b>	Conforming to IEC 60529		IP 66 IP 69 K (Selector switches and multiple-headed pushbuttons) IP 54 (Emergency stop illuminated, trigger action and mechanical latching pushbuttons with mechanical state indicator)
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
<b>Resistance to high pressure washer</b>		Pa	70 x 10 <sup>5</sup> (70 bar); distance: 0.1 m Temperature: 55 °C
<b>Mechanical shock protection</b>	Conforming to IEC 50102		Non illuminated heads: IK 03 Illuminated heads: IK 05 Selector switch heads: IK 06
<b>Conforming to standards</b>			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 106) IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons, see page 106) EN 81-1 (Emergency stop illuminated, trigger action and mechanical latching pushbuttons with mechanical state indicator, see page 106) JIS C 4520, UL 508, CSA C22-2 n° 14
<b>Product certifications</b>	UL Listed, CSA		Standard single contacts with screw clamp and spring 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 Single contacts for high power switching: □ ZBE 501 and ZBE 502: A300; P300
	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 or spring terminals:
<b>Terminal referencing</b>	Conforming to EN 50005 and EN 50013		

**Characteristics of contact or combined contact and signalling functions (see page 92)**

Mechanical characteristics			
<b>Contact operation</b>	N/C or N/O		Slow break
<b>Positive operation</b>	Conforming to EN/IEC 60947-5-1 appendix K		All functions incorporating a N/C contact have positive opening operation
<b>Operating travel</b> (to change the electrical state)	Pushbutton	mm	Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3
<b>Operating force</b>	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 Trigger action turn to release and key release: 44

**Characteristics of contact or combined contact and signalling functions (continued) (see page 92)**

<b>Mechanical characteristics (continued)</b>			
<b>Operating torque</b> (to change the electrical state)	Selector switches	<b>N.m</b>	N/O contact: 0.14
	Additional contact only	<b>N.m</b>	N/O contact: 0.05
<b>Mechanical durability</b> (in millions of operating cycles)	Pushbutton	Spring return	5
		Multiple-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
<b>Vibration resistance</b>	Conforming to IEC 60068-2-6		Frequency: 2 to 500 Hz: 5 gn
<b>Mechanical shock resistance</b>	Conforming to IEC 60068-2-27		All functions except mushroom head pushbuttons, spring return: <input type="checkbox"/> half sine wave acceleration 11 ms: 50 gn <input type="checkbox"/> half sine wave acceleration 18 ms: 30 gn Spring return mushroom head pushbutton: <input type="checkbox"/> half sine wave acceleration 11 ms: 15 gn
<b>Electrical characteristics</b>			
<b>Cabling capacity</b>	Conforming to IEC 60947-1	<b>mm<sup>2</sup></b>	Standard block with screw clamp or spring terminals: Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screws (Pozidriv or Phillips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (maxi 1.2 N.m)  Contact blocks for high power switching: Min: 1 x 0.5 without cable end Max: 2 x 2.5 with or without cable end
<b>Contact material</b>	Silver alloy (Ag / Ni)		Standard single and double blocks with screw clamp or spring 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
<b>Short-circuit protection</b>	Conforming to EN/IEC 60947-5-1	<b>A</b>	Standard single and double blocks with screw clamp or spring terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)
<b>Rated thermal current</b>	Conforming to EN/IEC 60947-5-1	<b>A</b>	Standard single and double blocks with screw clamp or spring terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6
<b>Rated insulation voltage</b>	Conforming to EN/IEC 60947-1	<b>V</b>	Standard single and double blocks with screw clamp or spring terminals: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston connectors Standard blocks for printed circuit board connection Contact blocks for high-power switching: Ui = 250, degree of pollution 3
<b>Rated impulse withstand voltage</b>	Conforming to IEC 60947-1	<b>kV</b>	Standard single and double blocks with screw clamp or spring terminals: Uimp = 6 Blocks for plug-in connector Standard blocks for printed circuit board connection Contact blocks for high-power switching: Uimp = 4



**Characteristics of contact or combined contact and signalling functions (continued) (see page 92)**

**Electrical characteristics (continued)**

<b>Rated operational characteristics</b> Conforming to EN/IEC 60947-5-1	a.c. supply: utilisation category AC-15		<b>Standard single and double blocks with screw clamp or spring terminals</b> 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 <b>Blocks for plug-in connector:</b> A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A <b>Standard blocks for printed circuit board connection:</b> B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A <b>Special contact blocks:</b> □ 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 <b>Contact blocks for high power switching:</b> □ ZBE 50: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A						
	d.c. supply: utilisation category DC-13		<b>Standard single and double blocks with screw clamp or spring terminals</b> 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 <b>Joystick controllers XD5 PA/ZD5 PA:</b> R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A <b>Blocks for plug-in connector:</b> R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A <b>Standard blocks for printed circuit board connection:</b> R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A <b>Special contact blocks:</b> □ 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 <b>Contact blocks for high power switching:</b> □ ZBE 50: P300; Ue = 125 V and Ie = 1.1 A or Ue = 250 V and Ie = 0.55 A						
<b>Characteristics of special contact blocks</b>	<b>Low power switching</b>		<b>VA</b> P max: 12 <b>A</b> I max: 0.1 <b>V</b> U max: 24						
	<b>High power switching</b> conforming to EN/IEC 60947-5-1	100 000 operating cycles Load factor: 0.5 Operating rate: 900 cycles/hour	<b>VA</b> P max: 240 <b>A</b> I max: 10 <b>V</b> U: 24 ---						
<b>Electrical durability</b> 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		Standard single blocks with screw clamp terminals or spring terminals:						
		<table border="1"> <tr> <td><b>V</b></td> <td>24</td> <td>120</td> <td>230</td> </tr> <tr> <td><b>A</b></td> <td>4</td> <td>3</td> <td>2</td> </tr> </table>	<b>V</b>	24	120	230	<b>A</b>	4	3
	<b>V</b>	24	120	230					
	<b>A</b>	4	3	2					
	Standard double blocks with screw clamp terminals and blocks for plug-in connector:								
<table border="1"> <tr> <td><b>V</b></td> <td>24</td> <td>120</td> <td>230</td> </tr> <tr> <td><b>A</b></td> <td>3</td> <td>1.5</td> <td>1</td> </tr> </table>	<b>V</b>	24	120	230	<b>A</b>	3	1.5	1	
<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		Standard single blocks with screw clamp terminals or spring terminals:							
	<table border="1"> <tr> <td><b>V</b></td> <td>24</td> <td>110</td> </tr> <tr> <td><b>A</b></td> <td>0.5</td> <td>0.2</td> </tr> </table>	<b>V</b>	24	110	<b>A</b>	0.5	0.2		
<b>V</b>	24	110							
<b>A</b>	0.5	0.2							
	Standard double blocks with screw clamp terminals and blocks for plug-in connector:								
<table border="1"> <tr> <td><b>V</b></td> <td>24</td> <td>110</td> </tr> <tr> <td><b>A</b></td> <td>0.4</td> <td>0.15</td> </tr> </table>	<b>V</b>	24	110	<b>A</b>	0.4	0.15			
<b>V</b>	24	110							
<b>A</b>	0.4	0.15							
<b>Electrical reliability</b> <b>Failure rate</b> Conforming to EN/IEC 60947-5-4	In clean environment		Standard blocks: - at 17 V and 5 mA, $\lambda < 10^{-6}$ - 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/IEC 60947-1	mm <sup>2</sup>	Screw clamp and spring terminals Min: 1 x 0.2 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end
Rated insulation voltage	Conforming to EN/IEC 60947-1	V	Direct supply pilot light blocks (BA 9s bulb): U <sub>i</sub> = 250 degree of pollution 3 Pilot light blocks with integral LED: U <sub>i</sub> = 250 degree of pollution 3 Pilot light blocks with transformer: U <sub>i</sub> = 600 degree of pollution 3
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	kV	Direct supply pilot light blocks (BA 9s bulb): U <sub>imp</sub> = 4 Pilot light blocks with integral LED: U <sub>imp</sub> = 4 Pilot light blocks with transformer: U <sub>imp</sub> = 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 15 ~; 21.6 to 13.8 ~ 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 <b>ZBZ V●</b> LED suppressor must be connected across the light block terminals (see page 121)
Electromagnetic emission	Conforming to IEC 55011		Class B

#### Specific characteristics

##### Fixing nut

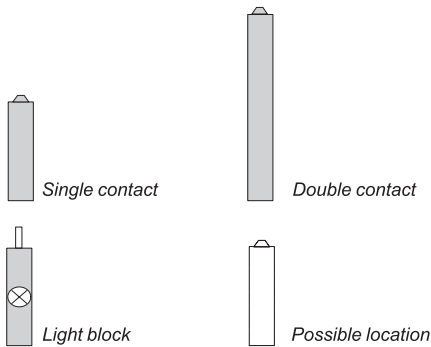
Head tightening torque		N.m	2.2 (± 0.2)
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##### Hour counters and annunciators

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

#### Maximum recommended configurations guaranteeing achievement of catalogue characteristics

Unit type (complete units XB5 B, heads ZB5 B)	Pushbuttons, spring return XB5 AA●, ZB5 AA●, (except ZB5 AA●8) XB5 AC●, ZB5 AC●, XB5 AL●, ZB5 AL●, XB5 AP●, ZB5 AP●, ZB5 AR● Triple-headed pushbuttons XB5 AA731327, XB5 AA711137, ZB5 AA7313●, ZB5 AA7111●, ZB5 AA72124, ZB5 AA791	Double-headed pushbuttons XB5 AL73415, ZB5 AA712●, ZB5 A●734●, ZB5 AA79	Illuminated pushbuttons, spring return XB5 AW●, ZB5 AW●, ZB5 AA●8 Double-headed pushbuttons + pilot light block XB5 AW73731●5, ZB5 AW7A17●●, ZB5 AW7●374●, ZB5 AW7A9	
Solution using single contacts				
Solution using single and double contacts				
Maximum recommended configurations	Single contacts Double contacts + Single contacts Light block	9 3 + 3 -	6 2 + 2 -	6 2 + 2 1



#### Possible configurations for high power switching contacts <sup>(1) (2)</sup>

High power switching contact blocks with screw clamp terminal connections :

ZBE 501, ZBE 502, ZBE 503, ZBE 504 and ZBE 505

High power switching contact blocks with connection by Faston connectors

ZBE 5013, ZBE 5023, ZBE 5033, ZBE 5043 and ZBE 5053

1 N/O	1 N/C	1 N/O + N/C 1 N/O + N/O 1 N/C + N/C

(1) The configurations are not upgradable and cannot be combined with other types of contact and signalling functions.











(2) High power switching contacts are not compatible with Harmony triple-headed pushbuttons.

Emergency stop or Emergency switching off XB5 AT●, ZB5 AT●, XB5 AS●, ZB5 AS●		Selector switches XB5 AD●, ZB5 AD●, ■ Standard handle XB5 AJ●, ZB5 AJ●, ■ Long handle ZB5 AD●9, ■ Key switch XB5 AG●, 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 operator ZB5 AF●, or lockable 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										
Push	Position	Top	315°		45°		315°		0°	45°						
		Bottom	315°		45°		315°		0°	45°						
Contacts	Location	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		
	N/O	□ □ □			■ ■ ■			■ ■ □			□ □ □			□ ■ ■		
N/C		■ ■ ■			□ □ □			□ □ ■			■ ■ ■			■ □ □		
L left, C centre, R right																
□ open, ■ closed																

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see pages 132 and 136

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			
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
				Red	<b>XB5 AA42</b> (ZB5 AZ102 + ZB5 AA4)	0.037
		-	1			
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
				Grey	<b>ZB5 AA8</b>	0.018
					Flush with transparent cap for insertion of legend <sup>(4)</sup>	
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 92.

(2) Coloured cap to be ordered separately: see page 132.

(3) Head supplied with 6 different coloured caps (white, black, green, red, yellow, blue) not fitted.

(4) For legend ordering information, see page 136.



Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see pages 132 and 136



ZB5 AA16

## Pushbuttons with recessed push (1)

## High guard

Shape of head	Type of push	Colour	Reference	Weight kg
<b>Heads only, circular</b>				
	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
		<b>Heads only, square</b>		
	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

109500



ZB5 CA16






(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see pages 132 and 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Spring return pushbuttons, unmarked

Pushbuttons with projecting push (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>						
	Projecting	-	1	Red	<b>XB5 AL42</b> (ZB5 AZ102 + ZB5 AL4)	0.038
<b>Heads only, circular</b>						
	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
		<b>Heads only, square</b>				
	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



XB5 AL42



ZB5 AL3





ZB5 CL1


(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.



Assembly of other products using:  
 body/contact assemblies: see page 120  
 combined sub-assemblies: see page 126  
 accessories: see page 136

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			

Complete units						
	Booted, clear silicone (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)						
	Flush	Clear boot (2) 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

	Projecting	Clear boot (2)		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)						
	Flush	Coloured boot (4)		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
		Clear membrane (4) 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 92.

(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 141.

(4) Replacement of silicone protection element without dismantling head, see page 134.



XB5 AP51



ZB5 AP4



ZB5 AP2S



ZB5 AP183



Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see pages 132 and 136



XB5 AA4322



ZB5 AA4331





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				

Complete units							
	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

Heads only, circular							
	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

Heads only, square							
	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

Heads only, circular							
	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 92.  
(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 120  
accessories: see pages 132 and 136

## 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
				V			kg
		N/O	N/C				
<b>Complete units - With plain lens</b>							
	Integral 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
	Protected LED	1	1	~ 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
		1	1	~ 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 92.

Assembly of other products using:  
combined sub-assemblies: see page 126  
accessories: see page 136



**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)
<b>Heads only, circular (2) - With plain lens</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
	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
<b>Heads only, square (2)</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 92.

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

(3) For legend ordering information, see page 136.

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











Assembly of other products using:  
combined sub-assemblies: see page 126  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

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

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
				V			kg
		N/O	N/C				
<b>Complete units - With plain lens</b>							
 523844  XB5 AW3465	Direct supply 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
 563461  XB5 AW3335	Via integral transformer 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
 814559  ZB5 AW33	Flush				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
<b>Heads only <sup>(2)</sup> - With grooved lens <sup>(3)</sup></b>							
	Flush				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
<b>Illuminated pushbuttons with projecting push <sup>(1)</sup></b>							
<b>Heads only <sup>(2)</sup> - With plain lens</b>							
	Projecting				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
<b>Heads only <sup>(2)</sup> - With grooved lens <sup>(3)</sup></b>							
	Projecting				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 92.

(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).

User assembly of other units, using:  
body-contacts assemblies: see page 120  
combined sub-assemblies: see page 126

Double-headed pushbuttons (1)						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Shape of head	Description	Type of contact		Colour and marking of caps (2)	Reference	Weight
						kg
		N/O	N/C			

Complete units						
	2 pushes (1 flush black + 1 projecting red)	1	1	White "I" on green background White "0" on red background	<b>XB5 AL73415</b>	0.053

Heads only						
	2 flush black pushes			White background + black background, unmarked	<b>ZB5 AA7120</b>	0.023
				Black "I" on white background White "0" on black background	<b>ZB5 AA7121</b>	0.023
				Green background + red background, unmarked	<b>ZB5 AA7340</b>	0.023
				White "I" on green background White "0" on red background	<b>ZB5 AA7341</b>	0.023
				Without cap (3)	<b>ZB5 AA79</b>	0.023

	1 flush black push 1 projecting red push			Green background + red background, unmarked	<b>ZB5 AL7340</b>	0.023
				White "I" on green background White "0" on red background	<b>ZB5 AL7341</b>	0.023

Double-headed pushbuttons + 1 white central pilot light block (1)							
Screw clamp terminal connections (Schneider Electric anti-retightening system)							
Shape of head	Description	Type of contact		Colour and marking of caps (2)	Pilot light voltage	Reference	Weight
					V		kg
		N/O	N/C				

Complete units							
	1 flush black push 1 projecting red push 1 white central pilot light block	1	1	White "I" on green background White "0" on red background	24	<b>XB5 AW73731B5</b>	0.066
120					<b>XB5 AW73731G5</b>	0.066	
240					<b>XB5 AW73731M5</b>	0.066	

Heads only (5)						
	2 flush black pushes 1 clear central pilot light (4)			White background + black background, unmarked	<b>ZB5 AW7A1720</b>	0.023
				Black "I" on white background White "0" on black background	<b>ZB5 AW7A1721</b>	0.023
				Green background + red background, unmarked	<b>ZB5 AW7A3740</b>	0.023
				White "I" on green background White "0" on red background	<b>ZB5 AW7A3741</b>	0.023
				Black "+" on white background White "0" on black background	<b>ZB5 AW7A1724</b>	0.023
				Black "+" on white background Black "-" on white background	<b>ZB5 AW7A1715</b>	0.023
				Without cap (3)	<b>ZB5 AW7A9</b>	0.023

	1 flush black push 1 projecting red push 1 clear central pilot light (4)			Green background + red background, unmarked	<b>ZB5 AW7L3740</b>	0.023
				White "I" on green background White "0" on red background	<b>ZB5 AW7L3741</b>	0.023

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.  
(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).  
(3) Caps to be ordered separately: see page opposite.  
(4) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body sub-assembly.  
(5) Only for use with bodies comprising a light source with integral LED.



New

General :  
page 80

Characteristics :  
page 88

Dimensions :  
page 146

User assembly of other units, using:  
body-contacts assemblies: see page 120  
combined sub-assemblies: see page 126

#### Triple-headed pushbuttons (1) (2)

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

Shape of head	Description	Type of contact			Colour and marking of caps (3)	Reference	Weight
							kg
		N/O	N/C	N/O			

#### Complete units

	2 flush black pushes + 1 central projecting red push marked "Stop" in white	1	1	1	White "I" on green background White "II" on green background	XB5 AA731327	0.063
					Black "→" on white background White "←" on black background	XB5 AA711237	0.063

#### Heads only

	2 flush black pushes + 1 central projecting red push marked "Stop" in white				White "I" on green background White "II" on green background	ZB5 AA73132	0.023
					White "←" on green background White "→" on green background	ZB5 AA73133	0.023
					White "↑" on green background White "↓" on green background	ZB5 AA73134	0.023
					White "+" on green background White "-" on green background	ZB5 AA73135	0.023
					Black "+" on white background Black "-" on white background	ZB5 AA71115	0.023
					Black "→" on white background White "←" on black background	ZB5 AA71123	0.023
					Black "↑" on white background White "↓" on black background	ZB5 AA71124	0.023
					White "↑" on black background White "↓" on black background	ZB5 AA72124	0.023
					Without cap (4)	ZB5 AA791	0.023

#### Specific accessories for multiple-headed pushbuttons

Description	Background colour	Marking	Sold in lots of	Reference	Weight
Caps only for clip-on mounting on double or triple-headed pushbuttons (5)	White	Unmarked	10	ZBA 71	0.010
		"I" black	10	ZBA 7131	0.010
		"↑" black	10	ZBA 7134	0.010
		"+" black	10	ZBA 7138	0.010
	Black	Unmarked	10	ZBA 72	0.010
		"O" white	10	ZBA 7232	0.010
		"+" white	10	ZBA 7233	0.010
		"↓" white	10	ZBA 7235	0.010
	Green	Unmarked	10	ZBA 73	0.010
		"I" white	10	ZBA 7331	0.010
		"+" white	10	ZBA 7333	0.010
		"↑" white	10	ZBA 7335	0.010
Red	Unmarked	10	ZBA 74	0.010	
	"O" white	10	ZBA 7432	0.010	
Yellow	Unmarked	10	ZBA 75	0.010	
Blue	Unmarked	10	ZBA 76	0.010	
Clear silicone boots (6)	For 2 flush pushes	–	10	ZBA 708	0.055
	For 3 pushes	–	10	ZBA 709	0.055
	For 1 flush push + 1 projecting push	–	10	ZBA 710	0.055

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Not compatible with high power switching contacts and contacts for printed circuit board.

(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(4) Caps to be ordered separately; see accessories on this page.

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

(6) Can be replaced without dismantling the head.



XB5 AA731327



ZB5 AA73133



ZB5 AA71124



ZBA 7235



ZBA 7331



ZBA 7432



ZBA 709

New

General :  
page 80

Characteristics :  
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






Dimensions :  
page 146

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Mushroom head pushbuttons, spring return

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	Weight
							
		N/O	N/C				kg
<b>Complete units</b>							
	Mushroom head	1	-	40	Black	<b>ZB5 AC21</b>	0.062
						(ZB5 AZ101 + ZB5 AC2)	
<b>Heads only</b>							
	Mushroom head			30	Black	<b>ZB5 AC24</b>	0.027
					Green	<b>ZB5 AC34</b>	0.027
					Red	<b>ZB5 AC44</b>	0.027
					Yellow	<b>ZB5 AC54</b>	0.027
					Blue	<b>ZB5 AC64</b>	0.027
				40	Black	<b>ZB5 AC2</b>	0.046
					Green	<b>ZB5 AC3</b>	0.046
					Red	<b>ZB5 AC4</b>	0.046
					Yellow	<b>ZB5 AC5</b>	0.046
					Blue	<b>ZB5 AC6</b>	0.046
				60	Black	<b>ZB5 AR2</b>	0.065
					Green	<b>ZB5 AR3</b>	0.065
					Red	<b>ZB5 AR4</b>	0.065
					Yellow	<b>ZB5 AR5</b>	0.065
					Blue	<b>ZB5 AR6</b>	0.065
				60 (3) Hemispherical	Black	<b>ZB5 AR216</b>	0.048
					Green	<b>ZB5 AR316</b>	0.048
					Red	<b>ZB5 AR416</b>	0.048
					Yellow	<b>ZB5 AR516</b>	0.048
					Blue	<b>ZB5 AR616</b>	0.048



XB5 AC21



ZB5 AC24



ZB5 AC2



ZB5 AR4



ZB5 AR216











(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 92.  
 (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 120  
accessories: see page 136

## Control and signalling units Ø 22

### Harmony® XB5, plastic

#### Mushroom head pushbuttons, latching

Mushroom head pushbuttons (1) (2)						
Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg	
 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	
 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 92.
- (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 120  
 combined sub-assemblies: see page 126  
 accessories: see pages 141 and 142

## 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

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 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) 	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) 	30	Red	<b>ZB5 AS934</b>	0.068
		40	Red	<b>ZB5 AS944 (4)</b>	0.071
		60	Red	<b>ZB5 AS964</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

### Illuminated Emergency stop trigger action and mechanical latching pushbuttons with mechanical state indicator (1)

For elevator inspection box applications

#### Heads only (7)

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 92.

(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



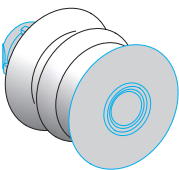
XB5 AS8445



XB5 AS9445



ZB5 AS844



ZBZ ●8



ZB5 AT8643M

▲ Available:  
1st quarter 2009.

Assembly of other products using:  
 body/contact assemblies: see page 120  
 combined sub-assemblies: see page 126  
 accessories: see pages 141 and 142













## 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>								
 563451 XB5 AS542		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>								
 107105 ZB5 AT4		Push-pull	–	1	30	Red	<b>ZB5 AT44</b>	0.049
					40	Red	<b>ZB5 AT4</b>	0.049
					60	Red	<b>ZB5 AX4</b>	0.067
 107189 ZB5 AS64		Turn to release	–	1	30	Red	<b>ZB5 AS44</b>	0.040
					40	Red	<b>ZB5 AS54</b>	0.044
					60	Red	<b>ZB5 AS64</b>	0.064
 107192 ZB5 AS24		Key release (key n° 455) 2 keys included with head (5)  (3)	–	1	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)	–	1	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 92.

(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 mechanical latching Emergency switching off 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.

Assembly of other products using:  
body/contact assemblies: see page 120  
combined sub-assemblies: see page 126  
accessories: see page 136


**Pushbuttons with flush push (1)**

Shape of head	Type of push	Colour of push	Reference	Weight kg
<b>Heads only, circular</b>				
	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
<b>Heads only, square</b>				
	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







ZB5 AH04

**Pushbuttons with projecting push (1)**

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 (1)**

Shape of head	Type of push	Colour of push	Reference	Weight kg
<b>Heads only, circular (3)</b>				
	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
				
<b>Heads only, square (3)</b>				
	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 (1)**

Shape of head	Type of push	Colour of push	Reference	Weight kg
<b>Heads only, circular (3)</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
				

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

(2) Caps to be ordered separately, see page 132.

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

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Pushbuttons, "push-turn to release"


### Pushbuttons with key-operated push (1)

Shape of head	Type of push	Locking	Key withdrawal	Reference	Weight kg
<b>Heads only</b>					
	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 AFDA

### Pushbuttons with knurled push (1)

Shape of head	Type of push	Marking	Reference	Weight kg
<b>Heads only</b>				
	Knurled without cap (2)	–	ZB5 AF	0.027
	Knurled with marked cap	↑ (white on black background)	ZB5 AF351	0.030



ZB5 AF

















ZB5 AF351

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.












(2) Coloured caps to be ordered separately: see page 132.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136

Selector switches with standard handle <sup>(1)</sup>									
Screw clamp terminal connections (Schneider Electric anti-retightening system)									
Shape of head	Type of operator	Type of contact		Positions		Reference	Weight		
		N/O	N/C	Number	Type				
<b>Complete units</b>									
	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)
		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			
<b>Heads only</b>									
	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>
					Spring return to centre				<b>ZB5 AD5</b>
					Spring return from left to centre			<b>ZB5 AD7</b>	0.017
					Spring return from right to centre				<b>ZB5 AD8</b>
<b>Heads only with other coloured handles</b>									
	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 92.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136


Selector switches with long handle <sup>(1)</sup>							
Screw clamp terminal connections (Schneider Electric anti-retightening system)							
Shape of head	Type of operator	Type of contact		Positions		Reference	Weight
		N/O	N/C	Number	Type		
<b>Complete units</b>							
	Long handle, black	1	-	2-position 90°	Stay put	 <b>ZB5 AJ21</b> (ZB5 AZ101 + ZB5 AJ2)	0.043
				3-position ± 45°	Stay put	 <b>ZB5 AJ33</b> (ZB5 AZ103 + ZB5 AJ3)	0.043
					Spring return to centre	 <b>ZB5 AJ53</b> (ZB5 AZ103 + ZB5 AJ5)	0.043
<b>Heads only</b>							
	Long handle, black	1	-	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 92.

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136

Key switches (1)											
Screw clamp terminal connections (Schneider Electric anti-retightening system)											
Shape of head	Type of operator	Type of contact		Positions		Reference	Weight				
		N/O	N/C	Number	Type (2)						
kg											
<b>Complete units</b>											
 106203 XB5 AG3	 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				
<b>Heads only</b>											
 106224 ZB5 AG2	 Key switch with key n° 455 (3) (4)	2-position 90°	-	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°	-	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 from right to centre	-	3-position ± 45°	Spring return to centre	 <b>ZB5 AG7</b>	0.057				
						 <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 92.

(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.




















Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136








## 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)		Reference	Weight kg		
		Number	Type				
	Key switch with key n° 8D1	2-position 90°	Stay put		ZB5 AG2D	0.057	
					ZB5 AG02D	0.057	
					ZB5 AG4D	0.057	
		3-position ± 45°	Spring return from right to left	Stay put		ZB5 AG6D	0.061
						ZB5 AG0D	0.057
						ZB5 AG3D	0.057
			Spring return from left to centre	Stay put		ZB5 AG5D	0.057
						ZB5 AG9D	0.057
						ZB5 AG09D	0.057
			Spring return from right to centre	Stay put		ZB5 AG03D	0.057
						ZB5 AG04D	0.057
						ZB5 AG06D	0.057
			Spring return to centre	Stay put		ZB5 AG1D	0.057
						ZB5 AG07D	0.057
						ZB5 AG8D	0.057
Spring return from right to centre	Stay put		ZB5 AG08D	0.057			
			ZB5 AG05D	0.057			
			ZB5 AG7D	0.057			

Selector switches with knurled knob (1)						
Shape of head	Type of operator	Positions		Reference	Weight kg	
		Number	Type			
<b>Heads only</b>						
	Black knurled knob	2-position 90°	Stay put		ZB5 AD29	0.020
					ZB5 AD49	0.024
		3-position ± 45°	Stay put		ZB5 AD39	0.020
					ZB5 AD59	0.020
					ZB5 AD79	0.020
					ZB5 AD89	0.020

Toggle switches (1)						
Shape of head	Type of operator	Positions		Reference	Weight kg	
		Number	Type			
<b>Heads only</b>						
	Black lever	2-position 90°	Stay put		ZB5 AD28	0.023
					ZB5 AD48	0.023
	White lever	2-position 90°	Stay put		ZB5 AD2801	0.023
	Red lever	2-position 90°	Stay put		ZB5 AD2804	0.023
	Blue lever	2-position 90°	Stay put		ZB5 AD2806	0.023

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

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










Assembly of other products using:  
combined sub-assemblies: see page 126  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated selector switches with standard handle,  
with integral LED

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				kg							
				V										
<b>Complete units</b>														
 106206 <b>XB5 AK123●5</b>		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						
						 106209 <b>XB5 AK124●5</b>						≈ 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												
 106212 <b>XB5 AK125●5</b>												≈ 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 92.









Assembly of other products using:  
combined sub-assemblies: see page 126  
accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

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>							
 ZB5 AK1263	Standard handle	2-position 90°	Stay put		White	ZB5 AK1213	0.016
				Green	ZB5 AK1233	0.016	
				Red	ZB5 AK1243	0.016	
				Orange	ZB5 AK1253	0.016	
				Blue	ZB5 AK1263	0.016	
			Spring return from right to left		White	ZB5 AK1413	0.017
				Green	ZB5 AK1433	0.017	
				Red	ZB5 AK1443	0.017	
				Orange	ZB5 AK1453	0.017	
				Blue	ZB5 AK1463	0.017	
 ZB5 AK1463		3-position ± 45°	Stay put		White	ZB5 AK1313	0.016
				Green	ZB5 AK1333	0.016	
				Red	ZB5 AK1343	0.016	
				Orange	ZB5 AK1353	0.016	
				Blue	ZB5 AK1363	0.016	
			Spring return to centre		White	ZB5 AK1513	0.016
				Green	ZB5 AK1533	0.016	
				Red	ZB5 AK1543	0.016	
				Orange	ZB5 AK1553	0.016	
				Blue	ZB5 AK1563	0.016	
			Spring return from right to centre		White	ZB5 AK1813	0.016
				Green	ZB5 AK1833	0.016	
				Red	ZB5 AK1843	0.016	
				Orange	ZB5 AK1853	0.016	
				Blue	ZB5 AK1863	0.016	
Spring return from left to centre		White	ZB5 AK1713	0.016			
	Green	ZB5 AK1733	0.016				
	Red	ZB5 AK1743	0.016				
	Orange	ZB5 AK1753	0.016				
	Blue	ZB5 AK1763	0.016				

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 92.

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






Assembly of other products using:  
light block sub-assemblies: see page 128  
accessories: see pages 132 and 136

### 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				
	 ~ 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
		White	<b>XB5 AVG1</b> (ZB5 AVG1 + ZB5 AV013)	0.038
	~ 110...120 (50/60 Hz)	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
		White	<b>XB5 AVM1</b> (ZB5 AVM1 + ZB5 AV013)	0.038
		Green	<b>XB5 AVM3</b> (ZB5 AVM3 + ZB5 AV033)	0.038
	~ 230...240 (50/60 Hz)	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

XB5 AVB1

### 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

ZB5 AV053

<b>Heads only, square (1)</b>				
■ With plain lens				
	 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

ZB5 CV063

(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 136.  
 (4) For use in bright ambient light conditions (outdoors in sunlight, for example).

Assembly of other products using:  
light block sub-assemblies: see page 128  
accessories: see pages 132 and 136







## Control and signalling units Ø 22

### Harmony® XB5, plastic

#### Pilot lights with integral LED and with BA 9s base fitting

#### Pilot lights with integral LED and transformer (1.2 VA, 24 V secondary)

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

Shape of head	Supply voltage V	Colour	Reference (1)	Weight kg
<b>Complete units - With plain lens</b>				
	~ 400 - 50 Hz (1)	White	<b>XB5 AV5B1</b> 	0.133
		Green	<b>XB5 AV5B3</b> 	0.133
		Red	<b>XB5 AV5B4</b> 	0.133
		Orange	<b>XB5 AV5B5</b> 	0.133
		Blue	<b>XB5 AV5B6</b> 	0.133

080703





XB5 AV5B●

Protected  
LED

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

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

Shape of head	Supply voltage V	Colour	Reference	Weight kg
<b>Complete units - With plain lens</b>				
■ Direct supply, for BA 9s bulb, U ≤ 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	White	<b>XB5 AV41</b> (ZB5 AV4 + ZB5 AV01)	0.110
	~ 220...240 - 60 Hz	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

814392





XB5 AV63

814391



XB5 AV34

#### Heads only (1)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
■ With plain lens				
	<b>With BA 9s base fitting</b>	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)				
	<b>With BA 9s base fitting</b>	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

814528



ZB5 AV01

(1) For order ~ 440...460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8». Example: XB5 AV5B1 becomes XB5 AV8B1. To order ~ 550...600 V - 60 Hz blocks, please replace «5» by «9». Example: XB5 AV5B1 becomes XB5 AV9B1.

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

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

 New

General :  
page 80

Characteristics :  
page 88

Dimensions :  
page 146

Assembly of other products using:  
body/contact assemblies: see page 120  
accessories: see page 136




## Control and signalling units Ø 22

Harmony® XB5, plastic

Specific functions

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


### 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	–	–	<b>XB5 AA801</b>	0.027
	120...257	–	–	<b>XB5 AA802</b>	0.040
<b>With flush push</b>					
	17...120	Without	Green	<b>XB5 AA831</b>	0.027
			Red	<b>XB5 AA841</b>	0.027
			Blue	<b>XB5 AA861</b>	0.027
			O	<b>XB5 AA84101</b>	0.027
			R	<b>XB5 AA86102</b>	0.027
	120...257	Without	Green	<b>XB5 AA832</b>	0.040
			Red	<b>XB5 AA842</b>	0.040
			Blue	<b>XB5 AA862</b>	0.040
			O	<b>XB5 AA84201</b>	0.040
			R	<b>XB5 AA86202</b>	0.040
<b>With projecting push</b>					
	17...120	O	Red	<b>XB5 AL84101</b>	0.027
	120...257	O	Red	<b>XB5 AL84201</b>	0.040



XB5 AA

### 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	<b>ZB5 AD912</b>	0.032
		Ø 6.35 mm shaft	<b>ZB5 AD922</b>	0.032



ZB5 AD

### 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●

### Annunciators (IP 40 NEMA 1)

85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 146)	~ 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 KS●

### 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



XB5 DT1S

(1) Coloured cap to be ordered separately: see page 132.  
(2) Potentiometer not included.

Assembly of other products using accessories: see page 136

## Control and signalling units Ø 22

Harmony® XB5, plastic

Specific functions

Joystick controllers



ZD5 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

Description	For use with	Reference	Weight kg	
Complete body/contact assemblies	2-direction	<b>ZD5 PA103</b>	0.049	
	4-direction	<b>ZD5 PA203</b>	0.058	
Complete head assemblies with operating shaft	2-direction, stay put	<b>ZD5 PA12</b>	0.022	
	2-direction, spring return to zero position	<b>ZD5 PA22</b>	0.022	
	4-direction, stay put	<b>ZD5 PA14</b>	0.022	
	4-direction, spring return to zero position	<b>ZD5 PA24</b>	0.022	
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
		Black one side Red reverse	<b>ZBG 4201</b>	0.002
Legends 48 x 48 mm for engraving	4-direction	White one side Yellow reverse	<b>ZBG 4401</b>	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 94 to 118



ZB5 AZ009



ZBE 101



ZBE 203



ZB5 AZ101



ZBE 201



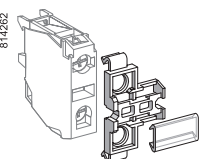
ZB5 AZ106



ZB5 AZ107



ZBE 505



ZBZ 001

New

General :  
page 80**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
<b>Contact blocks</b>	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	ZB5 AZ101	0.021
		–	1	1	ZB5 AZ102	0.021
		2	–	1	ZB5 AZ103	0.030
		–	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	
<b>Low power switching</b>	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	
<b>Staggered contacts</b>	Single	Early make N/O	1	–	5	ZBE 201	0.011	
			–	1	5	ZBE 202	0.011	
		Single with body/fixing collar	Overlapping N/O+N/C	1	1	5	ZB5 AZ106	0.030
			Staggered N/O+N/C	2	–	5	ZB5 AZ107	0.030
		<b>High power switching</b>	Single	Standard (3)	1	–	1	ZBE 501
–	1				1	ZBE 502	0,020	
2	–				1	ZBE 503	0,032	
–	2				1	ZBE 504	0,032	
1	1				1	ZBE 505	0,032	

**Clip-on legend holder, sheet of blank legends and labelling software (4)**

Description	Sold in lots of	Unit reference	Weight kg
Clip-on legend-holder for electrical blocks with screw clamp terminal connections (4). For identification of an XB5 A control or signalling unit	10	ZBZ 001	0.001
Sheet of 50 blank legends for legend holder ZBZ 001	10	ZBY 001	0.023
«SIS Label» labelling software for legend design (ZBY 001 legends) (for design of legends in English, French, German, Italian, Spanish)	1	XBZ 2U	0.100

(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 92.

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

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

(4) This legend holder is not compatible with high power switching contacts.

Characteristics :  
page 88Dimensions :  
page 146

To combine with:  
heads, see page 98



ZBV B●

Light blocks with 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
		White	5	ZBV B1	0.017
	~ 24 (50/60 Hz)	Green	5	ZBV B3	0.017
		Red	5	ZBV B4	0.017
		Orange	5	ZBV B5	0.017
		Blue	5	ZBV B6	0.017
		White	5	ZBV BG1	0.017
		Green	5	ZBV BG3	0.017
~ 24...120 (50/60 Hz)	Red	5	ZBV BG4	0.017	
	Orange	5	ZBV BG5	0.017	
	Blue	5	ZBV BG6	0.017	
	White	5	ZBV G1	0.017	
	Green	5	ZBV G3	0.017	
	Red	5	ZBV G4	0.017	
~ 110...120 (50/60 Hz)	Orange	5	ZBV G5	0.017	
	Blue	5	ZBV G6	0.017	
	White	5	ZBV M1	0.017	
	Green	5	ZBV M3	0.017	
	Red	5	ZBV M4	0.017	
	Orange	5	ZBV M5	0.017	
~ 230...240 (50/60 Hz)	Blue	5	ZBV M6	0.017	

Flashing light blocks with 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
		White	5	ZBV 18G1	0.017
	~ 110...120 (50/60 Hz)	Green	5	ZBV 18G3	0.017
		Red	5	ZBV 18G4	0.017
		Orange	5	ZBV 18G5	0.017
		Blue	5	ZBV 18G6	0.017
		White	5	ZBV 18M1	0.017
		Green	5	ZBV 18M3	0.017
~ 230...240 (50/60 Hz)	Red	5	ZBV 18M4	0.017	
	Orange	5	ZBV 18M5	0.017	
	Blue	5	ZBV 18M6	0.017	

Transformer blocks for 24 V light blocks				
For use with	Supply voltage V	Description	Référence	Weight kg
Light blocks with integral LED	~ 400 V - 50 Hz	Transformers 400 V - 24 V ~	ZBV 5B (1)	0.090

Blocks for "test light" function				
Light blocks	Supply voltage V	Description	Reference	Weight kg
Light blocks with integral LED	~ 12 and 24 ~ 24...120	Single module, 1 connecting wire	ZBZ G156 (2)	0.010
Light blocks with integral LED	~ 48...230	Double module, with connecting wires	ZBZ M156 (3)	0.010

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

(1) To order ~ 440...460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8»: ZBV 5B becomes ZBV 8B.

To order ~ 550...600 V - 60 Hz transformer blocks, please replace «5» by «9»: ZBV 5B becomes ZBV 9B.

(2) 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.

(3) Block for use ~ light blocks integral LED types ZBV G●, ZBV M●, see connection on page 154.

New



To combine with heads, see pages 94 to 118

814588












ZB5 AZ009

Body/fixing collar				
For use with	Sold in lots of	Unit reference	Weight kg	
Electrical block (contact or light)	10	ZB5 AZ009	0.006	

PF10777























ZBE 1015

Contact functions						
Spring clamp 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
Contact blocks	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
		1	1	1	ZB5 AZ1055 	0.030

PF10781



ZB5 AZ1015

Light blocks					
Spring clamp 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	



540548



XBY 2U

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 for English, French, German, Italian, Spanish	Sold in lots of	Unit reference	Weight kg	
	1	XBY 2U	0.038	

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

 New

General : page 80

Characteristics : page 88

Dimensions : page 146

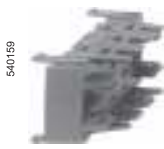
To combine with heads, see pages 94 to 118



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 (1)

##### 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) (1)

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 (1)

##### Contacts for standard applications

Description	Type of contact	Symbol		Sold in lots of	Unit reference	Weight kg
		N/O	N/C			
Contact blocks	Single	1	–	5	ZBE 701	0.011
		–	1	5	ZBE 702	0.011

##### Contacts for specific applications

Application	Type of contact	Symbol		Sold in lots of	Unit reference	Weight kg
		N/O	N/C			
Low power switching	Single	1	–	5	ZBE 7016	0.012
		–	1	5	ZBE 7026	0.012

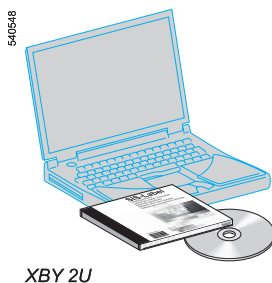
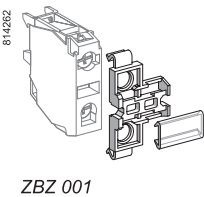
#### Light blocks (1)

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



(1) For details of support drilling and of printed circuit board: see page 157

To combine with heads, see pages 94 to 118



#### Contact functions (1) Faston connectors (6.35 or 2 x 2.8 mm)

##### Contacts for standard applications

Description	Type of contact	Symbol		Sold in lots of	Unit reference	Weight kg
		N/O	N/C			
Contact blocks	Single	1	–	5	ZBE 1013	0.011
		–	1	5	ZBE 1023	0.011
	Double	2	–	–	5	ZBE 2033
–			2	5	ZBE 2043	0.020
1		1	5	ZBE 2053	0.020	
Single with body/fixing collar	1	–	–	1	ZB5 AZ1013 (2)	0.021
	–	1	–	1	ZB5 AZ1023 (2)	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	Symbol		Sold in lots of	Unit reference	Weight kg
			N/O	N/C			
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
		Standard (4)	1	–	1	ZBE 5013 (1)	0,021
High power switching	Single	Standard (4)	–	1	1	ZBE 5023 (1)	0,021
			2	–	1	ZBE 5033 (1)	0,033
			–	2	1	ZBE 5043 (1)	0,033
			1	1	1	ZBE 5053 (1)	0,033

##### Clip-on legend holder for electrical blocks with screw clamp terminal connections (5)

For use with	Sold in lots of	Unit reference	Weight kg
Identification of an XB5 A control or signalling unit	10	ZBZ 001	0.001

##### Sheet of 50 blank legends

Legend holder ZBY 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.

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

(5) This legend holder is not compatible with high power switching contacts.

New

General :  
page 80

Characteristics :  
page 88

Dimensions :  
page 146

To combine with heads, see pages 94 to 118



814588

ZB5 AZ009



814278

ZBE 1014



814279

ZBE 1024



814408

ZB5 AZ1014



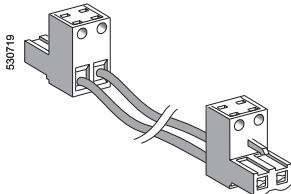
814410

ZB5 AZ1024



814280

ZBV B•4



530716

APE 1C2250

### 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

#### Plug-in connector (1)

#### Contacts for standard applications

Description	Type of contact	Symbol		Sold in lots of	Unit reference	Weight kg
		N/O	N/C			
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
		Protected LED	~ 110...120 (50/60 Hz)	White	5
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
		Green	5	ZBV M34	0.016
		Red	5	ZBV M44	0.016
		Orange	5	ZBV M54	0.016
		Blue	5	ZBV M64	0.016

### 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 99 to 115  
contacts, see page 120

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
		N/O	N/C			
				kg		
<b>Direct supply</b>						
Integral LED <b>Protected LED</b>	≈ 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 120.

**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 99 to 115  
contacts, see page 120

**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
		N/O	N/C			

**Direct supply (continued)**

Integral LED ~ 230...240 (50/60 Hz)	1	-	White	<b>ZB5 AW0M11</b>	0.032
			Green	<b>ZB5 AW0M31</b>	0.032
			Red	<b>ZB5 AW0M41</b>	0.032
			Orange	<b>ZB5 AW0M51</b>	0.032
			Blue	<b>ZB5 AW0M61</b>	0.032
	-	1	White	<b>ZB5 AW0M12</b>	0.032
			Green	<b>ZB5 AW0M32</b>	0.032
			Red	<b>ZB5 AW0M42</b>	0.032
			Orange	<b>ZB5 AW0M52</b>	0.032
			Blue	<b>ZB5 AW0M62</b>	0.032
	2	-	White	<b>ZB5 AW0M13</b>	0.042
			Green	<b>ZB5 AW0M33</b>	0.042
			Red	<b>ZB5 AW0M43</b>	0.042
			Orange	<b>ZB5 AW0M53</b>	0.042
			Blue	<b>ZB5 AW0M63</b>	0.042
	1	1	White	<b>ZB5 AW0M15</b>	0.042
			Green	<b>ZB5 AW0M35</b>	0.042
			Red	<b>ZB5 AW0M45</b>	0.042
			Orange	<b>ZB5 AW0M55</b>	0.042
			Blue	<b>ZB5 AW0M65</b>	0.042

(1) Can be fitted with additional contact blocks: see page 120.

**Other versions**

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



ZB5 AW0M11



ZB5 AW0M13

**Protected LED**

To combine with:  
heads, see page 116  
contacts, see page 120

563090



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
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 121.

To combine with:  
heads, see page 116  
contacts, see page 120



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 <b>Protected LED</b>	~ 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 <b>Protected LED</b>	~ 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
		~ 110...120 (50/60 Hz)	White	ZB5 AV18G1
	Green	ZB5 AV18G3	0.022	
	Red	ZB5 AV18G4	0.022	
	Orange	ZB5 AV18G5	0.022	
	Blue	ZB5 AV18G6	0.022	
	~ 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 ~ 120 or 230 V supply, use complete body ZB5 AVG● or ZB5 AVM● with block for "test light" function type ZBZ M156, see page 121.



To combine with heads, see page 98 to 113  
contacts, see page 120

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	
<b>Direct supply</b>							
BA 9s base fitting bulb, 2.4 W max., not included <sup>(2)</sup>	≤ 250	1	–	–	ZB5 AW061	0.031	
		–	1	–	ZB5 AW062	0.031	
		2	–	–	ZB5 AW063	0.041	
		1	1	–	ZB5 AW065	0.041	
<b>Supply via integral transformer (1.2 VA, 6 V secondary)</b>							
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	
~ 400 50/60 Hz	1	1	White	ZB5 AW05D15	0.120		
			Green	ZB5 AW05D35	0.120		
			Red	ZB5 AW05D45	0.120		
			Orange	ZB5 AW05D55	0.120		

(1) Can be fitted with additional contact blocks: see page 120.

(2) Bulb to be ordered separately: see page 144.

**Other versions**

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



ZB5 AW065



ZB5 AW035

To combine with:  
heads, see page 121  
contacts, see page 120

**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 AV8	0.099
	~ 550...600 - 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)

Light source	Supply voltage V	Reference	Weight kg
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**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 144.

**Other versions** Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 121.



ZB5 AV6



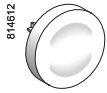
ZB5 AV3



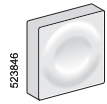
ZB5 AV156



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 square 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.



Pushbutton caps - marked						
For use with	Type of push	Marking		Colour of cap	Unit reference	Weight kg
		Text	Colour			
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		
◇	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°

814334



ZBP 0

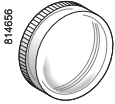
**Transparent boots for pushbuttons (1)**

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

**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

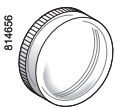
(1) Boots for multiple-headed pushbuttons: see page 103.



ZBV 01●3

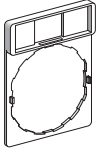
Lens caps				
For use with	Colour	Sold in lots of	Unit reference	Weight kg
<b>Circular lens caps for light sources with integral LED</b>				
Pilot lights	White	10	ZBV 0113	0.002
	Green	10	ZBV 0133	0.002
	Red	10	ZBV 0143	0.002
	Orange	10	ZBV 0153	0.002
	Blue	10	ZBV 0163	0.002
	5 different coloured grooved 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
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.



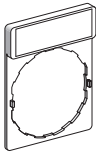
ZBV 01●

814295



ZBZ 32

814296



ZBY 101

814297



ZBY 2107

## Standard (30 x 40 mm) legend holders for 8 x 27 mm legends (1)

Description	Legend		Sold in lots of	Unit reference	Weight kg		
	Colour	Marking					
<b>Without legend</b>	–	–	10	ZBZ 32	0.001		
<b>With blank legend</b> (for engraving)	Black or red background	–	10	ZBY 2101	0.002		
	White or yellow background	–	10	ZBY 4101	0.002		
<b>With 8 x 27 mm legend</b> (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		
		<b>With 8 x 27 mm legend</b> (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		
DEFAUT (black background)	1			ZBY 2134	0.002		
DEFAUT (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			

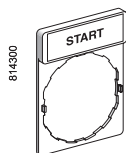
(1) For legends, see pages 138 to 140.

(2) "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

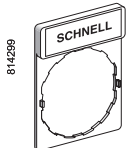
### 8 x 27 mm legends with 30 x 40 mm legend holders



ZBY 2303

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

Description	Legend		Reference	Weight kg		
	Colour	Marking				
With legend (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
		With legend (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



ZBY 2228

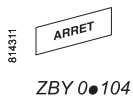
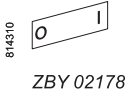
(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).



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

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)**

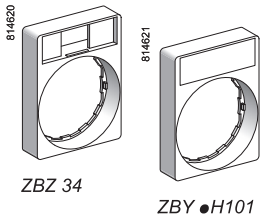
Colour	Marking	Reference	Weight kg			
Black or red background (1)	English	AUTO-HAND	ZBY 02364	0.001		
		AUTO-O-HAND	ZBY 02385	0.001		
		CLOSE	ZBY 02314	0.001		
		DOWN	ZBY 02308	0.001		
		EMERGENCY STOP	ZBY 02330	0.001		
		FAST	ZBY 02328	0.001		
		FORWARD	ZBY 02305	0.001		
		HAND	ZBY 02316	0.001		
		HAND-OFF-AUTO	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		
		Yellow background	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		
	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).

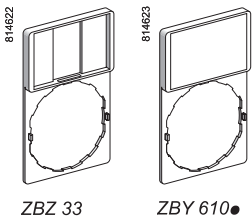
# Control and signalling units Ø 22

Harmony® XB5 plastic

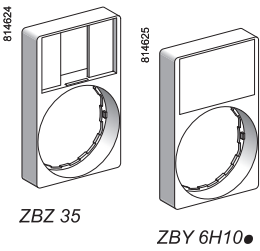
Legend holders for 8 x 27 or 18 x 27 mm legends for engraving or printing



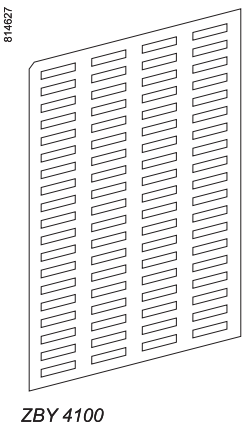
30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends					
Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular heads	–	10	ZBZ 34	0.003
	Square heads	–	10	ZBC Z34	0.002
With blank legend	Circular heads	Black or red background	10	ZBY 2H101	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

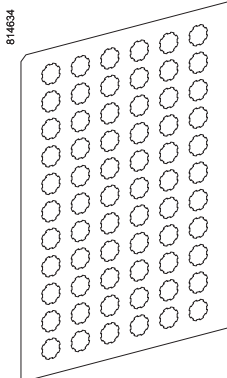


Legends for engraving					
Description mm	For use with	Colour	Sold in lots of	Unit reference	Weight kg
8 x 27	30 x 40 mm legend holder	Black or red background	10	ZBY 0101	0.001
		White or yellow background	10	ZBY 0102	0.001
18 x 27	30 x 50 mm legend holder	Black or red background	10	ZBY 5101	0.001
	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

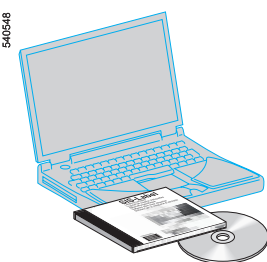
Sheets of peel-off legends (with backing board and protective transparent cover)					
Description	For use with	Sold in lots of	Unit reference	Weight kg	
Sheet of 76 8 x 27 mm legends	30 x 40 mm legend holder ZBZ 32 and ZBZ 34	10	ZBY 4100	0.043	
Sheet of 40 18 x 27 mm legends	30 x 50 mm legend holder ZBZ 33 and ZBZ 35	10	ZBY 5100	0.044	

## Legends for XB5 A pushbuttons, illuminated pushbuttons and pilot lights

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
	French	↑	10	ZBY 1912	0.017
		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
	English	MARCHE	10	ZBY 1103	0.017
		MONTEE	10	ZBY 1107	0.017
		HAND	10	ZBY 1316	0.017
		OFF	10	ZBY 1312	0.017
		ON	10	ZBY 1311	0.017
	German	START	10	ZBY 1303	0.017
		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



ZBY 1101



ZBY 2U

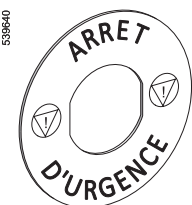
## "SIS Label" labelling software

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

## Circular yellow legends for mushroom head pushbuttons

## Used for "Emergency stop" function

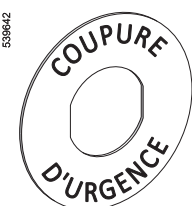
Diameter mm	Conforming to standards	Marking on yellow background	Reference	Weight kg
60	EN/IEC 60204-1 and EN/ISO 13850:2006	–	ZBY 9140	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		NOT-HALT	ZBY 9230	0.004
		PARADA DE EMERGENCIA	ZBY 9430	0.004
		ARRESTO DE EMERGENZA	ZBY 9630	0.004
		–	ZBY 8140	0.008
90	EN/IEC 60204-1 and EN/ISO 13850:2006	ARRET D'URGENCE	ZBY 8130	0.008
		EMERGENCY STOP	ZBY 8330	0.008
		NOT-HALT	ZBY 8230	0.008
		PARADA DE EMERGENCIA	ZBY 8430	0.008
		ARRESTO DE EMERGENZA	ZBY 8630	0.008



ZBY 9130

## Used for "Emergency switching off" function

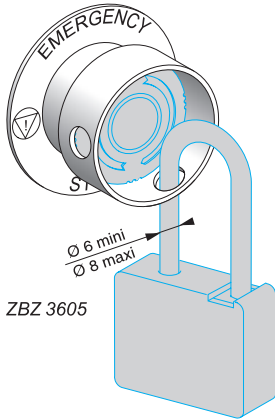
60	EN/IEC 60204-1	–	ZBY 9101	0.004
		COUPURE D'URGENCE	ZBY 9160	0.004
		EMERGENCY SWITCHING OFF	ZBY 9360	0.004
		NOT-AUS	ZBY 9260	0.004
		DESCONEXION DE EMERGENCIA	ZBY 9460	0.004
90	EN/IEC 60204-1	INTERRUZIONE DI EMERGENZA	ZBY 9660	0.004
		–	ZBY 8101	0.008
		COUPURE D'URGENCE	ZBY 8160	0.008
		EMERGENCY SWITCHING OFF	ZBY 8360	0.008
		NOT-AUS	ZBY 8260	0.008
		DESCONEXION DE EMERGENCIA	ZBY 8460	0.008
INTERRUZIONE DI EMERGENZA	ZBY 8660	0.008		



ZBY 9160

New

General :  
page 80Characteristics :  
page 88Dimensions :  
page 146



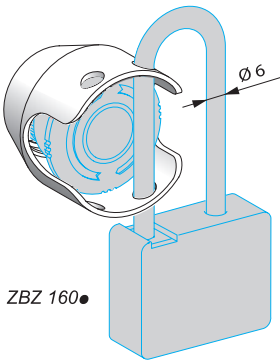
ZBZ 3605



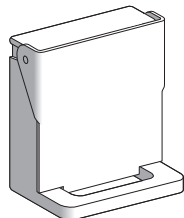
ZBY 9130T



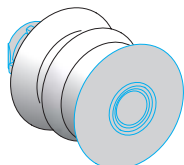
ZBY 9160T



ZBZ 160



ZB4 BZ64



ZBZ 8

#### Accessories for mushroom head pushbuttons

Used for Emergency stop (1) or Emergency switching off function (2)

Description	For use with	Colour	Reference	Weight kg
<b>Padlocking kit (3) (4)</b> (padlockable)	Emergency stop (1) and Emergency switching off function (2), 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 ZBZ 3605</b> For Emergency stop function (1)	Without	Yellow	<b>ZBY 9140T</b>	0.004
	ARRET D'URGENCE	Yellow	<b>ZBY 9130T</b>	0.004
	EMERGENCY STOP	Yellow	<b>ZBY 9330T</b>	0.004
<b>Ø 60 mm legend for padlocking device ZBZ 3605</b> For Emergency switching off function (2)	Without	Yellow	<b>ZBY 9101T</b>	0.004
	COUPURE D'URGENCE	Yellow	<b>ZBY 9160T</b>	0.004
	EMERGENCY SWITCHING OFF	Yellow	<b>ZBY 9360T</b>	0.004
<b>Metal guards</b> Padlockable (4)	Without	Chromium plated	<b>ZBZ 1600</b>	0.046
	Black		<b>ZBZ 1602</b>	0.046
	Red		<b>ZBZ 1604</b>	0.046
	Blue		<b>ZBZ 1606</b>	0.046

#### Other accessories

Description	For use with	Colour	Reference	Weight kg
<b>Plastic guard</b>	Selector switches and key switches	Black	<b>ZBZ 2102</b>	0.005
<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

Description	Application	Material	Colour	Sold in lots of	Unit reference	Weight kg
<b>Bellows seals for harsh environments (IP 69K)</b> (5)	Environments subject to humidity, dust, high-pressure cleaning etc...	Silicone	Red	2	<b>ZBZ 48</b>	0.009
			Black	2	<b>ZBZ 28</b>	0.009
		EPDM	Yellow	2	<b>ZBZ 58</b>	0.009

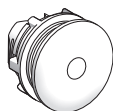
(1) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850:2006.

(2) Ensures conformity with standard EN/IEC 60204-1.

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

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

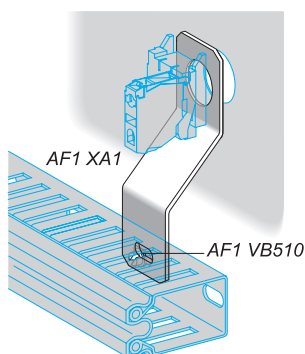
(5) Only when mounted on control stations. Use legends ZBY 9...T.



ZB5 SZ3

#### Other accessories (continued)

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
<b>Black plastic square blanking plug</b> (with fixing nut) (1)	Ø 22 mm control and signalling units	Chromium plated	10	ZB5 SZ5	0.009
		Black	10	ZB5 SZ37	0.009
<b>Black plastic circular blanking plug</b> (with fixing nut)	Ø 22 mm control and signalling units		10	ZB5 SZ3	0.009
<b>Liquid spray protective washer to be fitted in the head</b>	Ø 22 mm control and signalling units	Chromium plated	50	ZB4 BZ007	0.010
		Black	50	ZB4 BZ0077	0.010



Description	Application	Sold in lots of	Unit reference	Weight kg
<b>Cable ducting support</b>	Fixing beneath head	10	AF1 XA1	0.030
<b>M5 x 10 screw, with hexagonal slotted head</b>	For fixing cable ducting	100	AF1 VB510	0.003
<b>Support</b>	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 123.



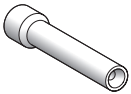
DL1 CJ0●●●



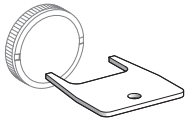
DL1 CE●●●



DL1 CF●●●



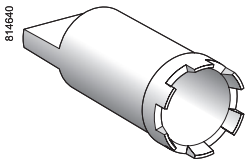
XBF X13



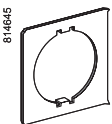
ZBZ 8



ZBZ AZ31



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
Add-on square trim	Gives a square appearance to ZB5 A circular heads		10	ZB5 AZ31	0.002
Nut	Head fixing		10	ZB5 AZ901	0.002
Bezel tool	Tightening head fixing nut ZB5 AZ901		1	ZB5 AZ905	0.016
Anti-rotation plate	Prevents rotation of the head		10	ZB5 AZ902	0.008

## Replacement keys

Description	Key number	Reference	Weight kg
<b>For latching mushroom head pushbuttons and selector 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	–



ZBG 455P

## Accessory for key switches (1)

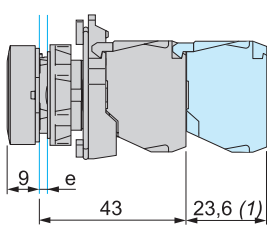
Description	Function	Reference	Weight kg
Keyhole cover (rubber boot)	Protection of lock barrel when no key inserted in lock	ZBG P	0.005

(1) Not compatible with products with key TEC10.

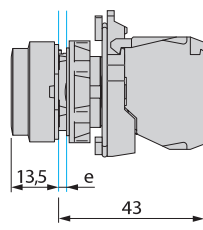


**Pushbuttons, spring return**

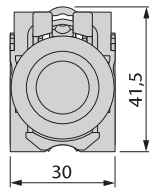
**XB5 AA●●**



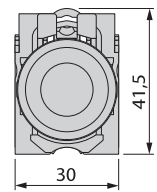
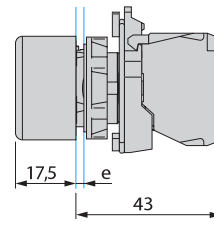
**XB5 AL●●**



Common face view



**XB5 AP●●**

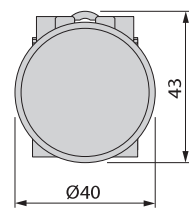
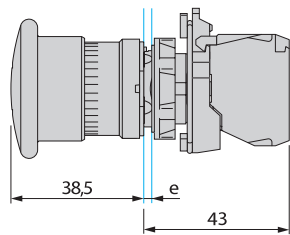


e: clamping thickness: 1 to 6 mm  
(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

**Mushroom head pushbuttons, spring return**

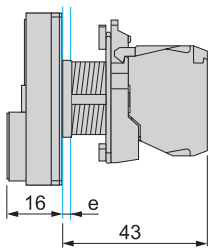
**XB5 AC21**



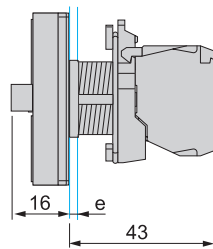
e: clamping thickness: 1 to 6 mm

**Multiple-headed pushbuttons (double or triple), spring return**

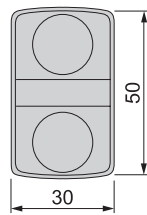
**XB5 AL73415, XB5 AW73731●5**



**XB5 AA731327, XB5 AA711237**



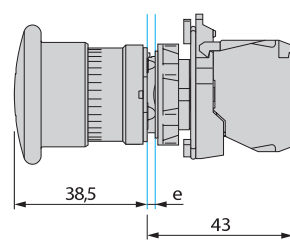
Common face view



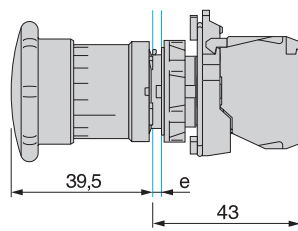
e: clamping thickness: 1 to 6 mm

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

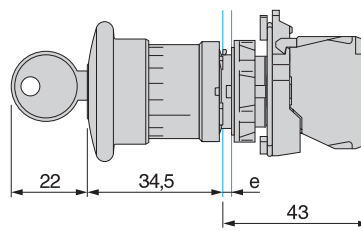
**XB5 AT845**



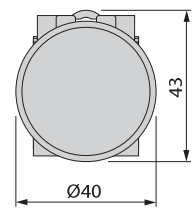
**XB5 AS8445**



**XB5 AS9445**



Common face view

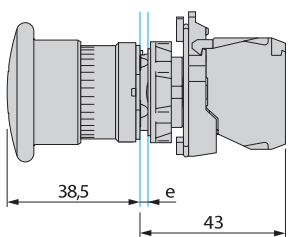


e: clamping thickness: 1 to 6 mm

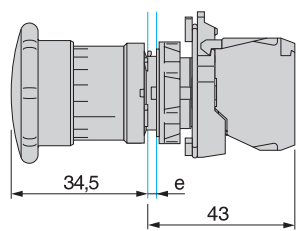
e: clamping thickness: 1 to 6 mm

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

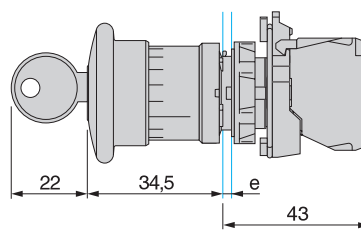
**XB5 AT42**



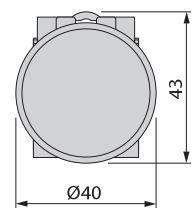
**XB5 AS542**



**XB5 AS142**



Common face view



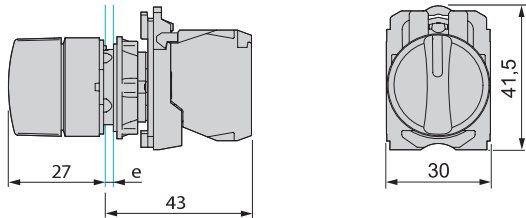
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

## Selector switches

### Standard handle operator

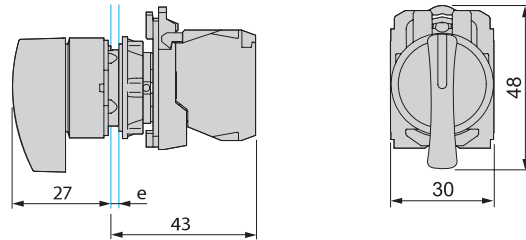
XB5 AD●●



e: clamping thickness: 1 to 6 mm

### Long handle operator

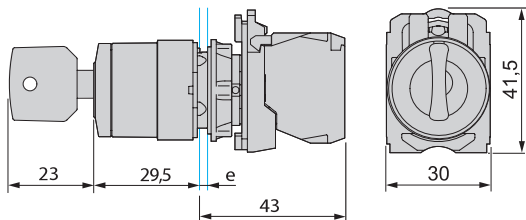
XB5 AJ●●



e: clamping thickness: 1 to 6 mm

## Key switches

XB5 AG●●



e: clamping thickness: 1 to 6 mm

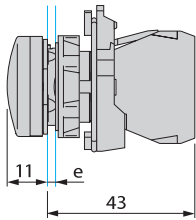
# Control and signalling units Ø 22

Harmony® XB5 plastic  
Pushbuttons, switches and pilot lights:  
complete units, XB5 A

## Pilot lights

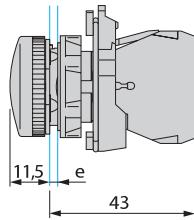
### Integral LED

XB5 AVB●, AVG●, AVM●



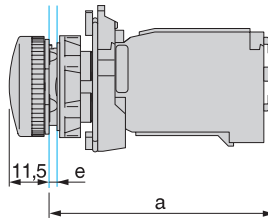
### Direct supply

XB5 AV6●

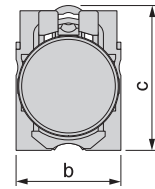


### Via integral transformer

XB5 AV3●, AV4●



Common face view



	a	b	c
XB5 AV●●	43	30	41.5
XB5 AV5B●	89,6	40	45

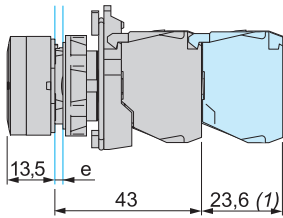
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

## Illuminated pushbuttons

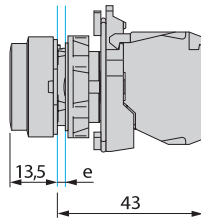
### Integral LED

XB5 AW3●●5



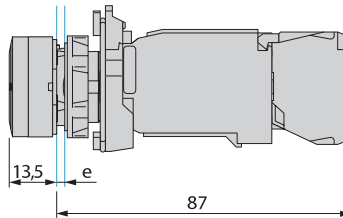
### Direct supply

XB5 AW3●65

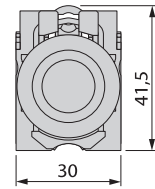


### Via integral transformer

XB5 AW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

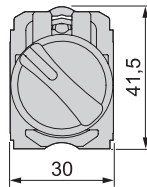
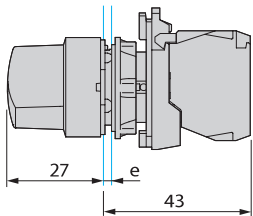
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

## Illuminated selector switches

### Integral LED

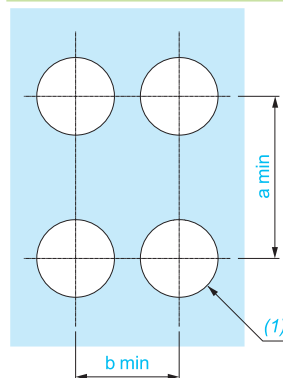
XB5 AK12●●5



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

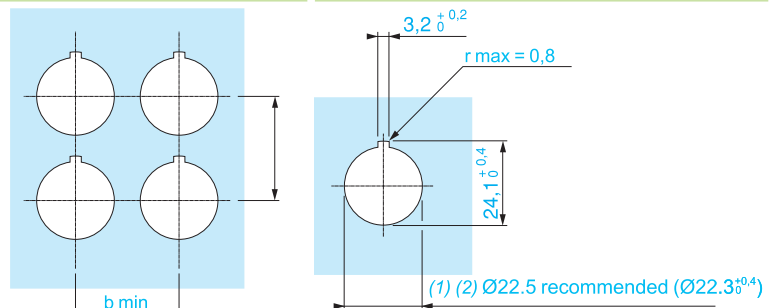


(1) (2) Ø22.5 recommended (Ø22.3<sup>+0.4</sup>)

(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 144.

### Detail of lug recess



Connections	a	b
By screw clamp terminals or plug-in connector	40	30
By Faston connectors	45	32
On printed circuit board	30	30

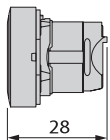
# Control and signalling units Ø 22

Harmony® XB5 plastic

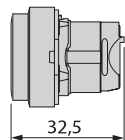
Pushbuttons, switches and pilot lights:  
sub-assemblies, ZB5 A

## Heads for spring return pushbuttons

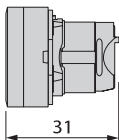
ZB5 AA●, AA●●●,  
ZB5 AA●8



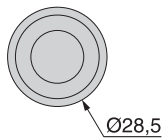
ZB5 AL●,  
ZB5 AL●●●



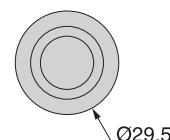
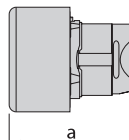
ZB5 AA●4, ZB5 AA●6



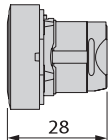
Common face view



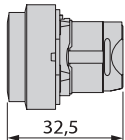
ZB5 AP●●, ZB5 AP●S, ZB5 AP●83, ZB5 AP●



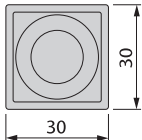
ZB5 CA●, ZB5 CA0



ZB5 CL●



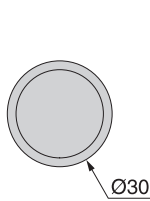
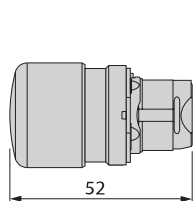
Vue de face commune



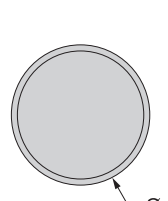
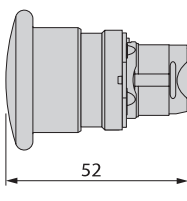
ZB5	a
AP●●	36.5
AP●S	33
AP●83	32
AP●	35

## Mushroom heads for spring return pushbuttons

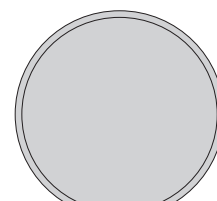
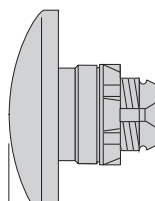
ZB5 AC●4



ZB5 AC●, AR●



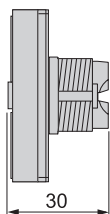
ZB5 AR●16



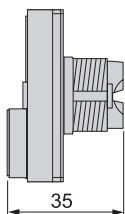
ZB5	Ø
AC●	40
AR●	60

## Heads for double-headed, spring return pushbuttons

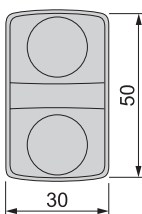
ZB5 AA712●,  
ZB5 AA734●,  
ZB5 AA79



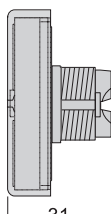
ZB5 AL734●



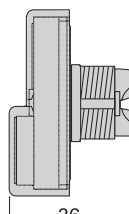
Common face view



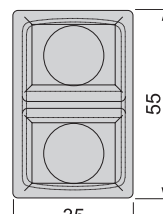
ZB5 AA712●,  
ZB5 AA734●,  
ZB5 AA79,  
+ boot ZBA 708



ZB5 AL734●  
+ boot ZBA 710

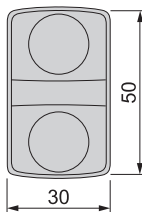
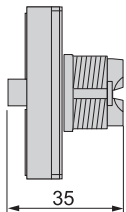


Common face view

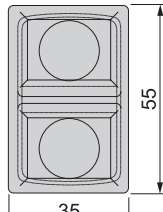
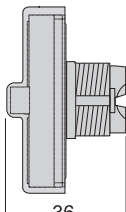


## Heads for triple-headed, spring return pushbuttons

ZB5 AA7313●, ZB5 AA711●●,  
ZB5 AA72124, ZB5 AA791

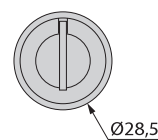
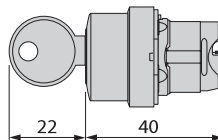


ZB5 AA7313●, ZB5 AA711●●,  
ZB5 AA72124, ZB5 AA791  
+ boot ZBA 709



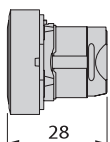
## Heads for lockable, Push-turn pushbuttons

ZB5 AFD

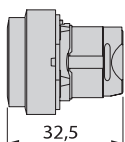


## Heads for Push-push to release pushbuttons

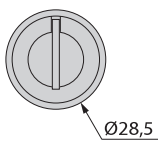
ZB5 AH0●



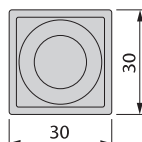
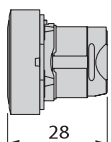
ZB5 AH●



Common face view



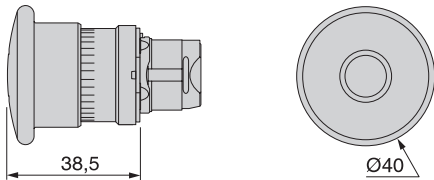
ZB5 CH0●



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

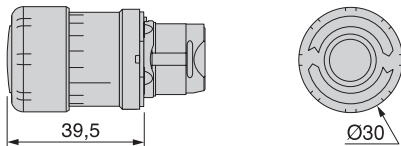
**Push-pull**

ZB5 AT84

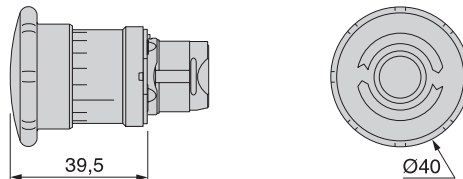


**Turn to release**

ZB5 AS834

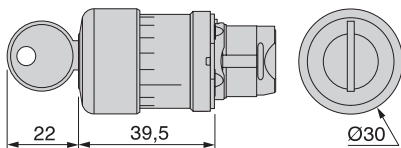


ZB5 AS844

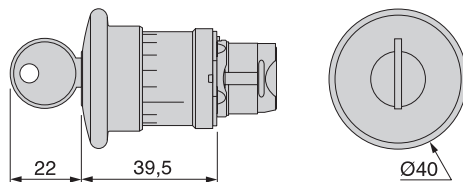


**Key release**

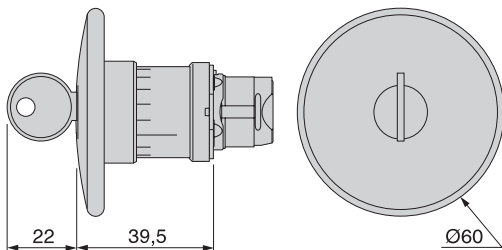
ZB5 AS934



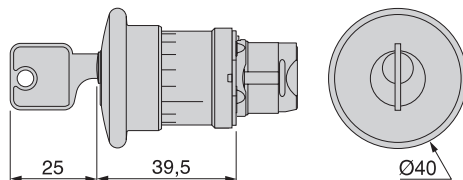
ZB5 AS944



ZB5 AS964



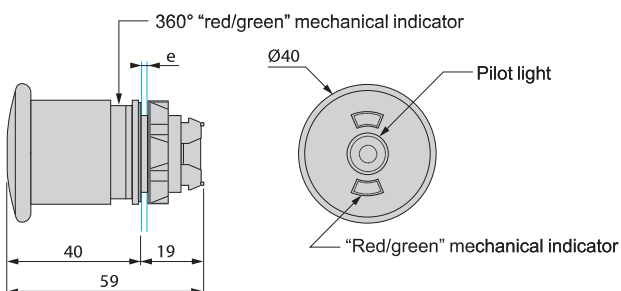
ZB5 AS944D



**Illuminated mushroom heads for Emergency stop, trigger action and mechanical latching pushbuttons**

**Push-pull with pilot light and mechanical state indicator**

ZB5 AT8643M

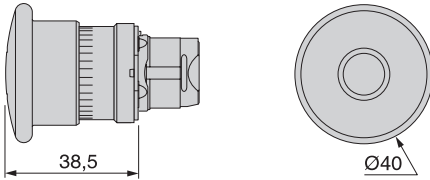


e: panel thickness 1 to 6 mm

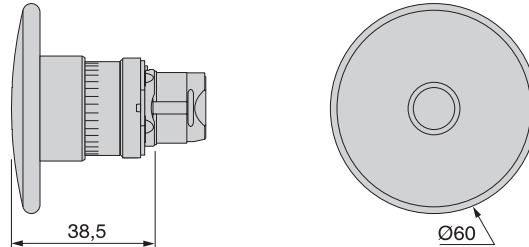
**Mushroom heads for Emergency switching off, mechanical latching pushbuttons**

**Push-pull**

ZB5 AT4

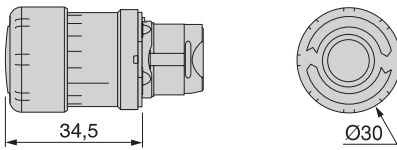


ZB5 AX4

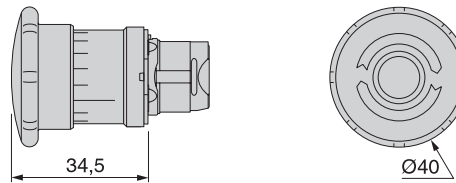


**Turn to release**

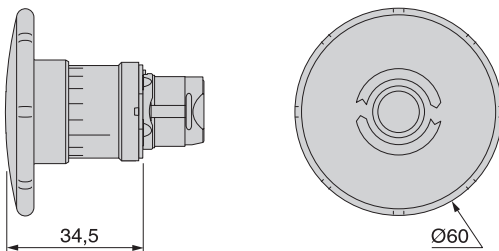
ZB5 AS44



ZB5 AS54

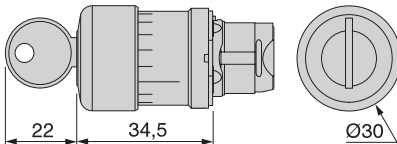


ZB5 AS64

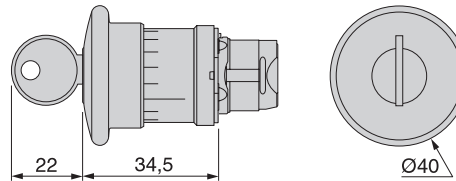


**Key release**

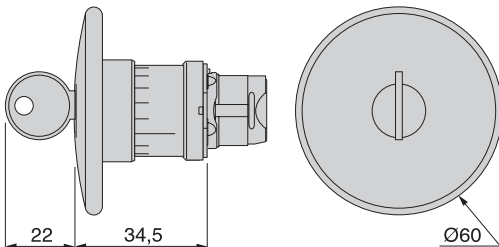
ZB5 AS74



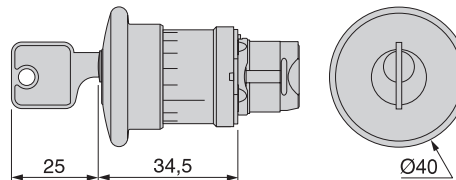
ZB5 AS14



ZB5 AS24



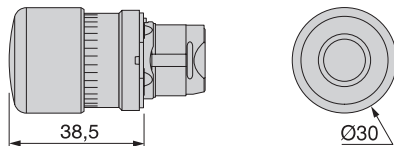
ZB5 AS14D



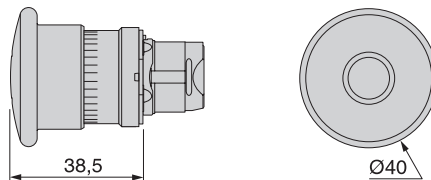
#### Mushroom heads for latching pushbuttons (1)

##### Push-pull

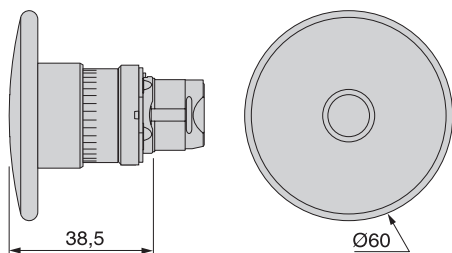
ZB5 AT24



ZB5 AT2

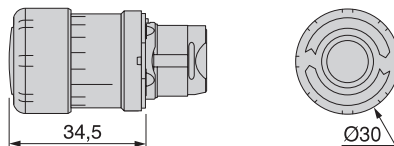


ZB5 AX2

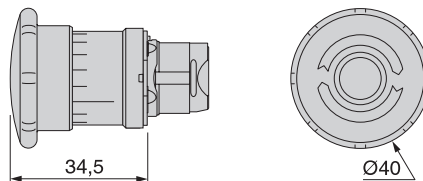


##### Turn to release

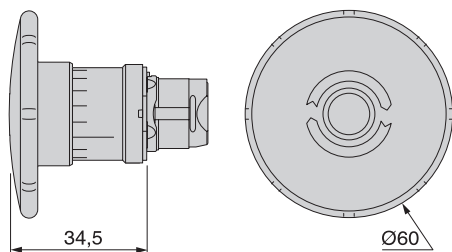
ZB5 AS42



ZB5 AS52, ZB5 AS55

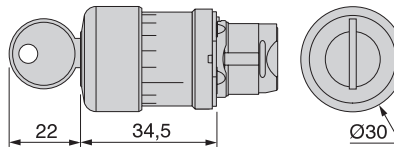


ZB5 AS62

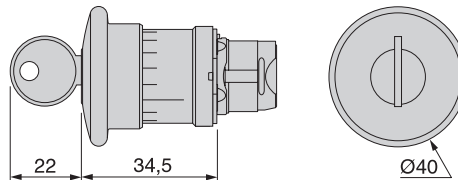


##### Key release

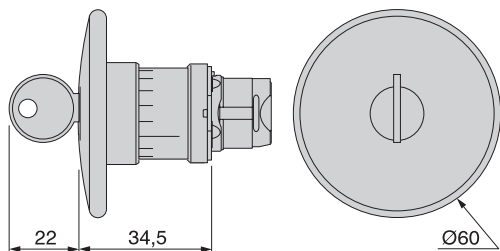
ZB5 AS72



ZB5 AS12



ZB5 AS22

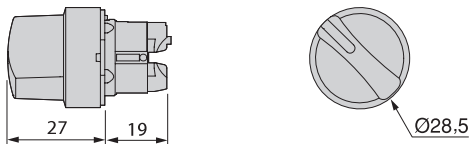


(1) Red mushroom heads for Emergency stop and Emergency switching off, latching pushbuttons: see pages 150 and 151.

## Heads for selector switches

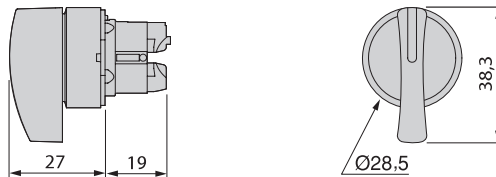
### Standard handle operator

ZB5 AD●, ZB5 AD●M



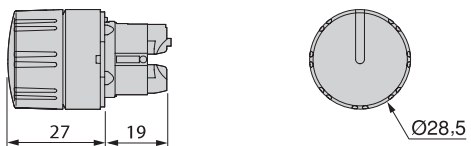
### Long handle operator

ZB5 AJ●, ZB5 AJ●M



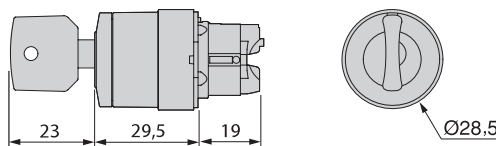
### Black knurled knob

ZB5 AD●9



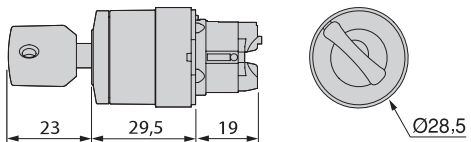
### Key switch (Ronis n° 455)

ZB5 AG●, ZB5 AG0●, ZB5 AG●M



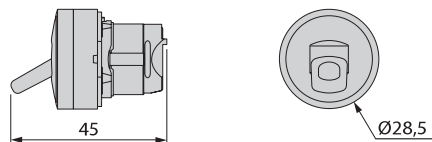
### Key switch (DOM n° 8D1)

ZB5 AGD



## Heads for toggle switches

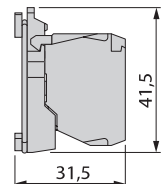
ZB5 AD●8



## Bodies for pushbuttons and switches

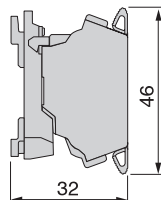
### Screw clamp terminal connections

ZB5 AZ10●, ZB5 AZ141



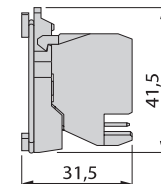
### Spring terminal connections

ZB5 AZ10●5



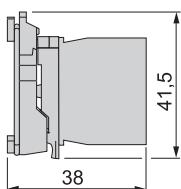
### Plug-in connector

ZB5 AZ10●4, ZB5 AZ1414



## High power switching with screw clamp terminal connections

ZBE 50● block + ZB5 AZ009 body

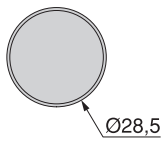
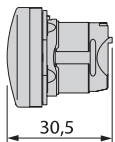




## Heads for pilot lights, with light source

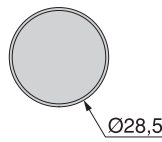
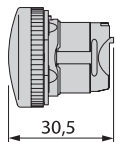
### Integral LED

ZB5 AV0●3

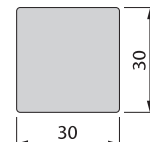
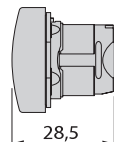


### Incandescent, neon or LED

ZB5 AV0●, AV0●S



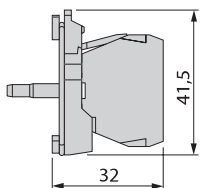
ZB5 CV0●3, CH3●3



## Bodies for pilot lights, screw clamp terminal connections

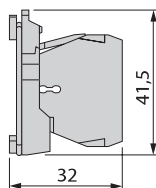
### Integral LED

ZB5 AV●●



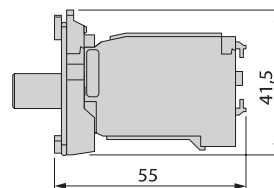
### Direct supply, for BA 9s bulb

ZB5 AV6



### With integral transformer, for BA9s bulb

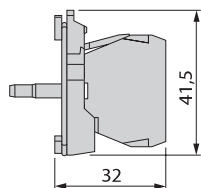
ZB5 AV●, AV●D●



## Bodies for pilot lights, plug-in connector

### Integral LED

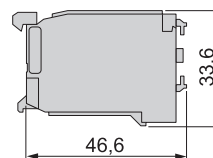
ZB5 AV●●4



## Transformer blocks

### For 24 V light blocks with integral LED

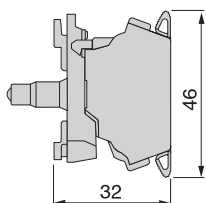
ZBV 5B, ZBV 8B, ZBV 9B



## Light blocks + body for pilot lights, spring terminal connections

### Integral LED

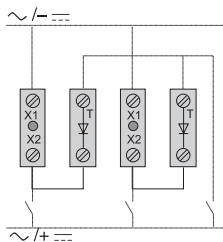
ZBV ●●5 light block + ZB5 AZ009 body



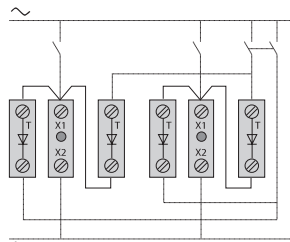
## Blocks for "test light" function

### Connections

ZBZ G156



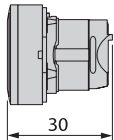
ZBZ M156



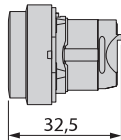
**Heads for spring return illuminated pushbuttons, for light source types:**

**LED**

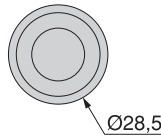
ZB5 AW3●3, AW3●3S,  
ZB5 AA●8



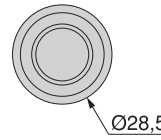
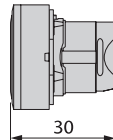
ZB5 AW1●3, ZB5 AW1●3S,  
ZB5 AL●8



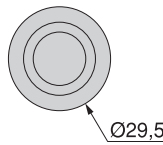
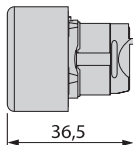
Common face view



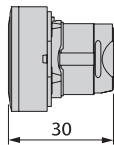
ZB5 AW9●3



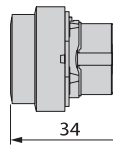
ZB5 AW5●3



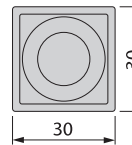
ZB5 CW3●3



ZB5 CW1●3

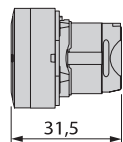


Common face view

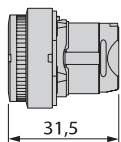


**Bulb with BA9s base fitting**

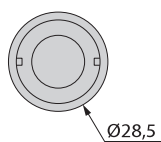
ZB5 AW3●, AW3●S



ZB5 AW1●, ZB5 AW1●S

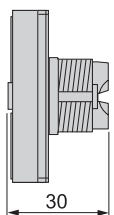


Common face view

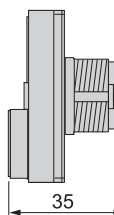


**Heads for double-headed pushbuttons + pilot light**

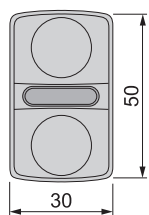
ZB5 AW7A374●, ZB5 AW7A17●●, ZB5 AW7A9



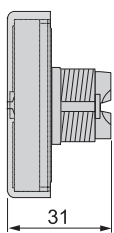
ZB5 AW7L374●



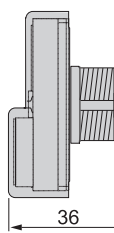
Common face view



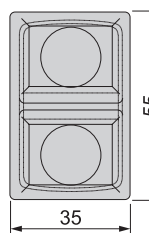
ZB5 AW7A374●, ZB5 AW7A17●●, ZB5 AW7A9  
+ boot ZBA 708



ZB5 AW7L374●  
+ boot ZBA 710

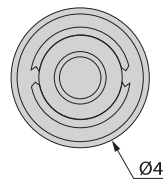
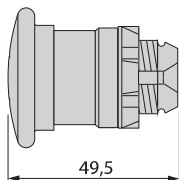


Common face view



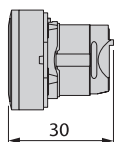
**Heads for illuminated, latching, mushroom head pushbuttons**

ZB5 AW7●3

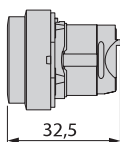


**Heads for illuminated, "push-push to release" pushbuttons**

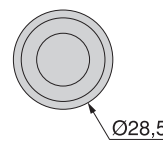
ZB5 AH0●3



ZB5 AH●3

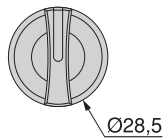
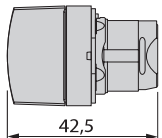


Common face view



**Heads for illuminated selector switches with standard handle**

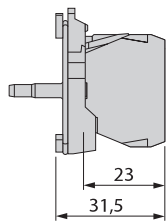
ZB5 AK1●●●3



### Bodies for illuminated pushbuttons and selector switches, screw clamp terminal connections

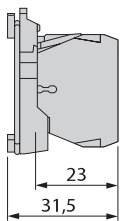
#### Integral LED

ZB5 AW0●●●



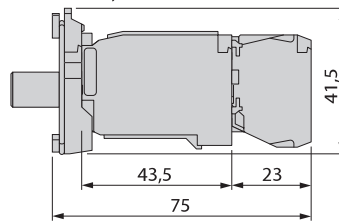
#### Direct supply for BA9s bulb

ZB5 AW0●●



#### With integral transformer for BA9s bulb

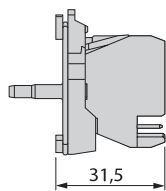
ZB5 AW0●●, ZB5 AW0●D●●



### Bodies for illuminated pushbuttons and selector switches, plug-in connector

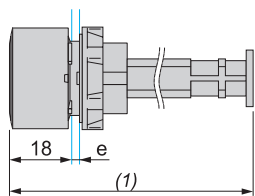
#### Integral LED

ZB5 AW0●●●4



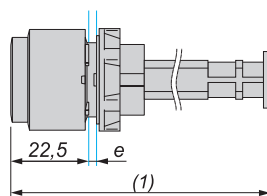
### Manual overload reset buttons

XB5 A8●●●



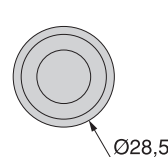
e: panel thickness 1 to 6 mm

XB5 AL8●●●



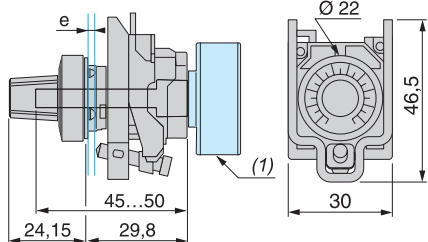
(1) Value not yet communicated

Common face view



### Head + mounting base for potentiometer

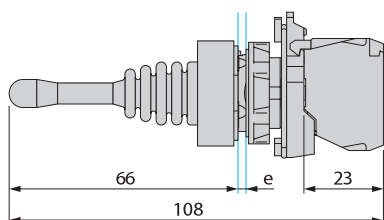
ZB5 AD9●2



(1) Potentiometer not included.

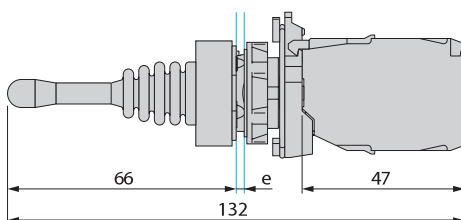
### Joystick controllers

XD5 PA●2

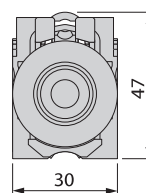


e: panel thickness 1 to 6 mm

XD5 PA●4

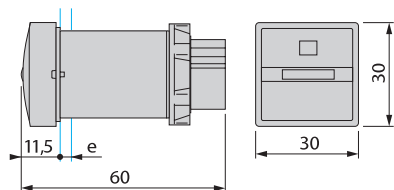


Common face view



### Hour counters

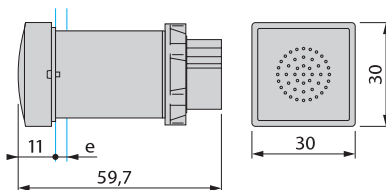
XB5 DS●



e: panel thickness 1 to 6 mm

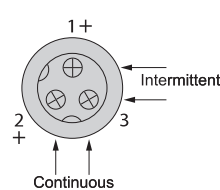
### Annunciators

XB5 KS●



### Cablings

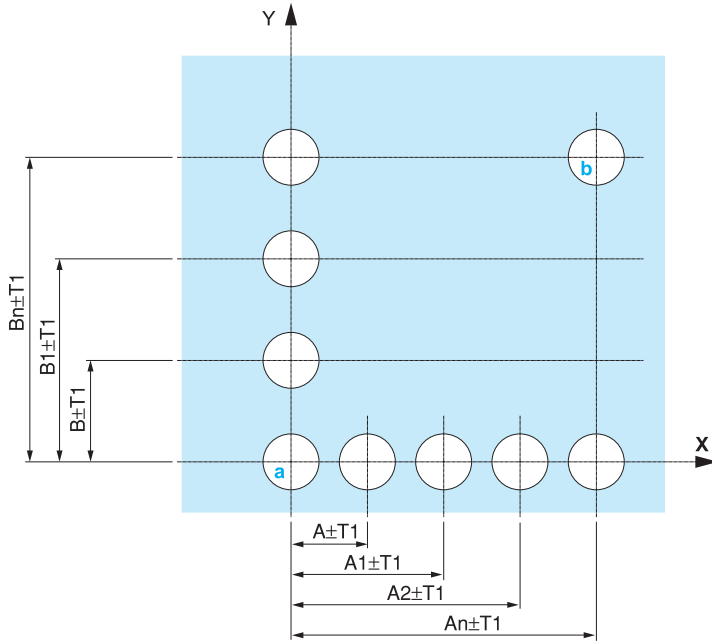
XB5 KS●



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

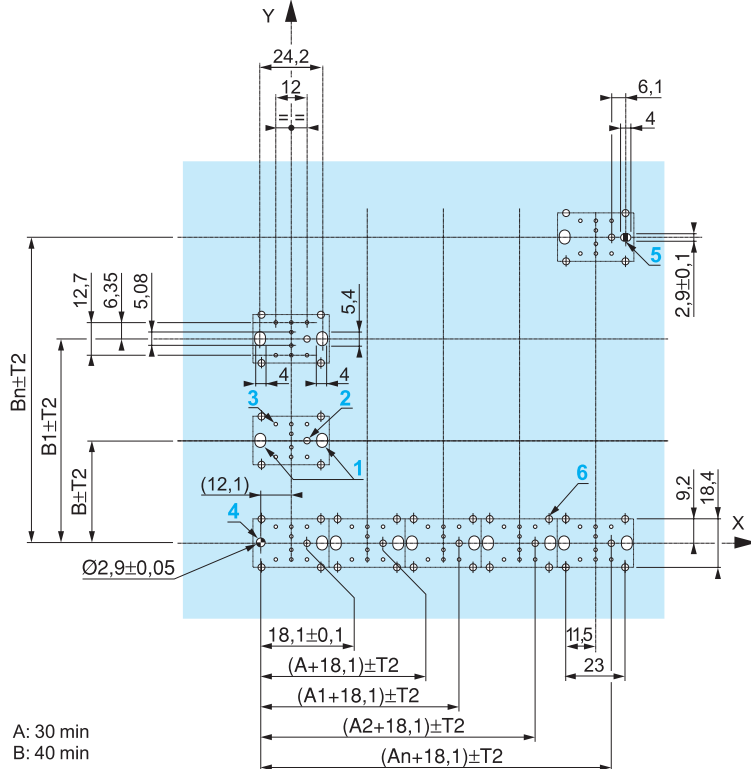
**Panel cut-outs (viewed from installer's side)**

Dimensions in mm



**Printed circuit board cut-outs (viewed from electrical block side)**

Dimensions in mm



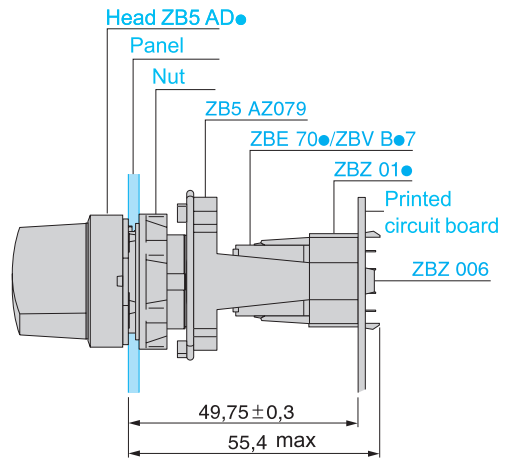
**General tolerances of the panel and printed circuit board**

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 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●).

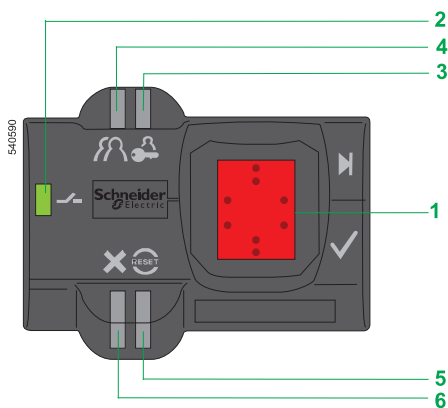
The fixing centres marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.



■ 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  $\varnothing 2.4 \text{ mm}$  for clipping in adapter ZBZ 01●.

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



#### Presentation

The fingerprint reader biometric switch is designed for use in industry to protect access to systems or machines. No type of interface is required for programming and operating the switch: it is an independent unit.

2 types of product are available:

- bistable biometric switches type XB5 S1B, with 2 fixed states,
- monostable biometric switches type XB5 S2B, with pulse control.

The biometric switch is aimed at 2 types of user:

- the administrator, who manages the registration and deletion of fingerprints,
- the operator who, once registered, uses the product as a control unit.

The product is of monolithic design (a single plastic housing) and is fixed by means of a nut (hand-tightened without need for tools) in a standard, 22 mm diameter hole. It operates on a 24 V d.c. supply.

Connection to the power supply and to the control output (relay or plc) is by means of a 2 metre cable or by M12 connector.

It can be installed on a flat, horizontal or vertical surface.

A protective cover is available as an accessory to protect the active face of the sensing screen. This cover is fixed by means of a self-adhesive hinge.

#### Description

The product consists of a dark grey housing, with the following on its front face:

- a sensing screen **1** that allows the registration of fingerprints and subsequent recognition of fingerprints registered,
- a green LED output state indicator **2**, that illuminates when the output is activated (N/O solid state contact),
- an orange LED **3**, indicating an administrator's "Registration" mode,
- an orange LED **4**, indicating an operator's "Registration" mode,
- a red «RESET» LED **5**, which indicates, in "Delete" mode, that the administrator is deleting all or part of the memory,
- a red LED **6** which flashes in the presence of an "unrecognised" fingerprint or in the case of incorrect operation.

#### References

##### Complete units

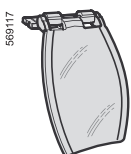
Description	Output	Connection	Reference	Weight kg
<b>Bistable biometric switch, 24 V d.c.</b>	PNP	By 2 m cable	<b>XB5 S1B2L2</b>	0.170
		By M12 connector	<b>XB5 S1B2M12</b>	0.183
	NPN	By 2 m cable	<b>XB5 S1B3L2</b> ▲	0.170
		By M12 connector	<b>XB5 S1B3M12</b> ▲	0.183
<b>Monostable biometric switch, 24 V d.c.</b>	PNP	By 2 m cable	<b>XB5 S2B2L2</b>	0.170
		By M12 connector	<b>XB5 S2B2M12</b>	0.183
	NPN	By 2 m cable	<b>XB5 S2B3L2</b> ▲	0.170
		By M12 connector	<b>XB5 S2B3M12</b> ▲	0.183

##### Accessories

Description	Function	Sold in lots of	Reference	Weight kg
<b>Protective cover, translucent and self-adhesive</b>	Protection of the sensing screen	<b>5</b>	<b>ZB5 SZ70</b>	0.020
<b>Fixing nut Ø 22 mm</b>	Replacement part	<b>5</b>	<b>ZB5 SZ71</b>	0.030
<b>Legend plate, 28 x 7 mm, self-adhesive, blank, with black background, for engraving</b>		<b>10</b>	<b>ZBY 0101T</b>	0.005



XB5 S1B2L2



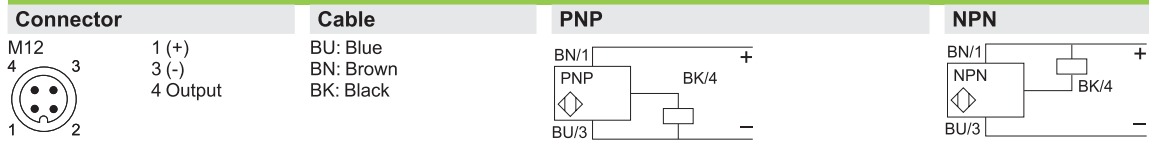
ZB5 SZ70

New

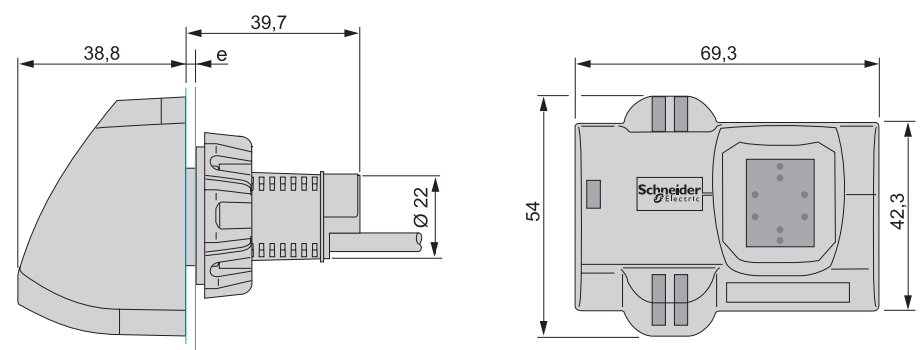
▲ Available: 3rd quarter 2009.

Characteristics			
Biometric switch type		XB5 S1B●●●● and XB5 S2B●●●●	
Product certifications		UL, CSA, CE IEC 61000-6-2 / IEC 61000-6-4	
Degree of protection	Conforming to EN/IEC 60529	IP 65 NEMA 12	
Ambient air temperature around the device	Storage	°C	- 25...+ 70
	Operation	°C	- 5...+ 50
Vibration resistance	Conforming to IEC 60068-2-6	1 gn - 9 to 500 Hz Amplitude 3 mm - 5 to 9 Hz	
Electric shock resistance	Conforming to IEC60068-2-27	50 gn, duration 11 ms	
Connection method	Cable	Length: 2 m, 3-wire, pre-wired	
	Connector	M12	
Materials	Housing	Polyamide PA66	
	Cable	PvR 3 x 0.34 mm <sup>2</sup>	
Memory capacity	200 records (100 users, operators or administrators, each registering 2 fingerprints)		
Output state indicator	Green LED		
Short-circuit protection	By gG fuse - 250 mA		
Rated supply voltage	V	--- 24 with protection against reverse polarity	
Voltage limits (including ripple)	V	--- 20...30	
Switching capacity	mA	≤ 200 with protection against overloads and short-circuits	
Residual voltage, closed state	V	≤ 1	
No-load current consumption	mA	≤ 50	
Delays	First-up	s	< 2
	Response time	s	< 1
	Recovery time	s	< 1

### Connections




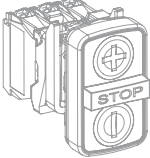


### Dimensions

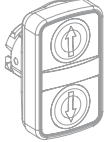


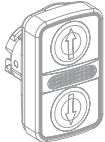
e = 1 to 6 mm

# > Multiple head spring return pushbuttons substitution table

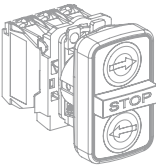
Product type	Old version	New version IP66 only	Notes	
<b>Plastic head Double-headed pushbutton</b>  	ZB5 AA8112	ZB5 AA7120		
	ZB5 AA8212	ZB5 AA7121		
	ZB5 AA8134	ZB5 AA7340		
	ZB5 AA8234	ZB5 AA7341		
	ZB5 AL8334	ZB5 AL7340		
	ZB5 AL8434	ZB5 AL7341		
	ZB5 AL8312		equivalent: ZB5AL7340 or ZB5AA7120	
	ZB5 AL8412		equivalent: ZB5AL7341 or ZB5AA7121	
		ZB5 AA79	new function	
	ZB5 AA9112	ZB5 AA7120		
	ZB5 AA9212	ZB5 AA7121		
	ZB5 AA9134	ZB5 AA7340		
	ZB5 AA9234	ZB5 AA7341		
	ZB5 AL9334	ZB5 AL7340		
	ZB5 AL9434	ZB5 AL7341		
	ZB5 AL9312		equivalent: ZB5AL7340 or ZB5AA7120	
	ZB5 AL9412		equivalent: ZB5AL7341 or ZB5AA7121	
		ZB5 AA79	new function	
	<b>Plastic head Double-headed pushbutton + central pilot light</b>  	ZB5 AW811723	ZB5 AW7A1720	
		ZB5 AW821723	ZB5 AW7A1721	
ZB5 AW813743		ZB5 AW7A3740		
ZB5 AW823743		ZB5 AW7A3741		
ZB5 AW812743			equivalent: ZB5AW7A3740	
ZB5 AW822743			equivalent: ZBAW77A3741	
ZB5 AW833743		ZB5 AW7L3740		
ZB5 AW843743		ZB5 AW7L3741		
ZB5 AW831723			equivalent: ZB5AW7L3740 or ZB5AW7A1720	
ZB5 AW841723			equivalent: ZB5AW7L3741 or ZB5AW7A1721	
ZB5 AW832743			equivalent: ZB5AW7L3740	
ZB5 AW842743			equivalent: ZB5AW7L3741	
		ZB5 AW7A1724	new function	
	ZB5 AW7A1715	new function		
	ZB5 AW7A9	new function		
<b>Plastic head Triple-headed pushbutton</b>  		ZB5 AA73132	new function	
		ZB5 AA73133	new function	
		ZB5 AA73134	new function	
		ZB5 AA73135	new function	
		ZB5 AA71115	new function	
		ZB5 AA71123	new function	
		ZB5 AA71124	new function	
		ZB5 AA72124	new function	
		ZB5 AA791	new function	
<b>Complete plastic bezel product</b>  	XB5 AL845	XB5 AL73415		
		XB5 AA731327	new function	
		XB5 AA711237	new function	
	XB5 AW84B5	XB5 AW73731B5		
	XB5 AW84G5	XB5 AW73731G5		
	XB5 AW84M5	XB5 AW73731M5		
	XB5 AL945	XB5 AL73415		

Product type	Old version	New version	Notes
<b>Silicone boot</b> 	ZBW008	ZBA710	
	ZBW008F	ZBA708	
		ZBA709	new function


Product type	Old version	New version IP66 only	Notes
<b>Metal head Double-headed pushbutton</b>  	ZB4 BA8112	ZB4 BA7120	
	ZB4 BA8212	ZB4 BA7121	
	ZB4 BA8134	ZB4 BA7340	
	ZB4 BA8234	ZB4 BA7341	
	ZB4 BL8334	ZB4 BL7340	
	ZB4 BL8434	ZB4 BL7341	
	ZB4 BL8312		equivalent: ZB4BL7340 or ZB4BA7120
	ZB4 BL8412		equivalent: ZB4BL7341 or ZB4BA7121
		ZB4 BA79	new function
	ZB4 BA9112	ZB4 BA7120	
	ZB4 BA9212	ZB4 BA7121	
	ZB4 BA9134	ZB4 BA7340	
	ZB4 BA9234	ZB4 BA7341	
	ZB4 BL9334	ZB4 BL7340	
	ZB4 BL9434	ZB4 BL7341	
	ZB4 BL9312		equivalent: ZB4BL7340 or ZB4BA7120
	ZB4 BL9412		equivalent: ZB4BL7341 or ZB4BA7121
		ZB4 BA79	new function

<b>Metal head Double-headed pushbutton + central pilot light</b>  	ZB4 BW811723	ZB4 BW7A1720	
	ZB4 BW821723	ZB4 BW7A1721	
	ZB4 BW813743	ZB4 BW7A3740	
	ZB4 BW823743	ZB4 BW7A3741	
	ZB4 BW812743		equivalent: ZB4BW7A3740
	ZB4 BW822743		equivalent: ZB4BW7A3741
	ZB4 BW833743	ZB4 BW7L3740	
	ZB4 BW843743	ZB4 BW7L3741	
	ZB4 BW831723		equivalent: ZB4 BW7L3740 or ZB4 BW7A1720
	ZB4 BW841723		equivalent: ZB4 BW7L3741 or ZB4 BW7A1721
	ZB4 BW832743		equivalent: ZB4BW7L3740
	ZB4 BW842743		equivalent: ZB4 BW7L3741
		ZB4 BW7A1724	new function
	ZB4 BW7A1715	new function	
	ZB4 BW7A9	new function	


<b>Metal head Triple-headed pushbutton</b>  		ZB4 BA73132	new function
		ZB4 BA73133	new function
		ZB4 BA73134	new function
		ZB4 BA73135	new function
		ZB4 BA71115	new function
		ZB4 BA71123	new function
		ZB4 BA71124	new function
		ZB4 BA72124	new function
		ZB4 BA791	new function

<b>Complete metal bezel product</b>  	XB4 BL845	XB4 BL73415	
		XB4 BA731327	new function
		XB4 BA711237	new function
	XB4 BW84B5	XB4 BW73731B5	
	XB4 BW84G5	XB4 BW73731G5	
	XB4 BW84M5	XB4 BW73731M5	
	XB4 BL945	XB4 BL73415	



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	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	Spring clamp terminal connections 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		<b>XVL A</b>	<b>XB6</b>	<b>XB4</b>	<b>XB5</b>	<b>XB7 E</b>
Pages		Consult our catalogue "Control and signalling components"		20 to 43	94 to 119	Consult our catalogue "Control and signalling components"

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)	
<b>XD4 PA</b>	<b>XD2 GA</b>	<b>XD5 PA</b>	<b>ZA2 VA</b>	<b>9001 K, 9001 SK</b>		<b>K10, K1, K2, K30, K50, K63, K115, K150</b>	
43	Consult our catalogue "Control and signalling components"	119	Consult our catalogue "Control and signalling components"				

<b>Ranges</b>	<b>Universal</b>			
<b>Enclosures</b>	<b>Plastic</b>		<b>Metal, elbowed</b>	<b>Metal</b>
	<b>Complete stations and separate components for customer assembly</b>	<b>Complete stations and separate components for customer assembly</b>	<b>Empty enclosures</b>	<b>Empty enclosures</b>
				
<b>Main feature</b>	Pre-drilled enclosures		Pre-drilled enclosures	Pre-drilled or undrilled enclosures
<b>Associated control and signalling units</b>	Harmony XB5 with plastic bezel		Harmony XB4 with metal bezel Harmony XB5 with plastic bezel	
<b>Number of cut-outs for Ø 22 control and signalling units</b>	1, 2, 3, 4 or 5	1, 2 or 3 (complete stations) 1, 2, 3, 4 or 5 (empty enclosures)	1, 2, 3, 4, 5, 6 or 7	1, 2, 3, 4, 6, 8 or 12
<b>Material</b>	Polycarbonate		Aluminium alloy	Zinc or aluminium alloy
<b>Colour</b>	Yellow lid Light grey base	Dark grey lid Light grey base	Dark grey or yellow lid (enclosure with 1 cut-out) Light grey base	<b>XAP M:</b> Blue lid Blue base <b>XAP J:</b> Yellow lid Blue base
<b>Degree of protection</b>	IP 66		IP 65	
<b>Function</b>	Emergency stop	Start or Stop Start-Stop with pilot light Movement control	According to equipment fitted: <input type="checkbox"/> Start or Stop <input type="checkbox"/> Start-Stop with pilot light <input type="checkbox"/> Movement control <input type="checkbox"/> Emergency stop	
<b>Cable entries</b>	Knock-outs		Via opening in rear of enclosure	Drilled
<b>Type references</b>	<b>XAL K</b>	<b>XAL D</b>	<b>XAM W</b> ●	<b>XAP M, XAP J</b>
<b>Page(s)</b>	Consult our catalogue "Control and signalling components"			

Universal		Optimum		Application specific		
Metal	Metal front plate, insulated protective rear cover	Plastic				Metal
Empty enclosures	Empty, flush mounting enclosures: front plate + rear cover	Empty insulated enclosures	Complete stations and separate components for customer assembly	Enclosures for severe environments	Lift inspection stations	Key operated control stations



Pre-drilled enclosures	Pre-drilled front plates & rear covers	Pre-drilled or undrilled enclosures	Pre-drilled enclosures	Pre-drilled empty enclosures	Pre-drilled empty enclosures or fitted stations	Fitted stations
Harmony XB4 with metal bezel Harmony XB5 with plastic bezel			Harmony XB7, monolithic, plastic	Harmony XB5 with plastic bezel	Harmony XB5 or XB7 with plastic bezel	With key lock
8, 16, 24, 30 or 40	1, 2, 3, 4 or 5	1, 2, 4, 8 or 16	1, 2 or 3	1, 2, 3, 4 or 5	1, 2, 3, 4, 5 or 6 with or without power socket	–
Aluminium alloy or sheet steel	Front plate: brushed aluminium Rear cover: polystyrene	Glass-reinforced polyester	ABS	Mineral reinforced polyamide	Polycarbonate	Zinc alloy
Blue lid and base	Unpainted aluminium	Coloured grey throughout	Light grey or yellow lid Light grey base	Black lid Black base	Yellow lid Light grey base	Grey
IP 54	IP 65		IP 54	IP 66	IP 44, IP 55 or IP 66 depending on model	IP 54
According to equipment fitted: <input type="checkbox"/> Start or Stop <input type="checkbox"/> Start-Stop with pilot light <input type="checkbox"/> Movement control <input type="checkbox"/> Emergency stop						Start-Stop
Drilled	Knock-outs	Tapped for cable gland	Knock-outs	ISO 20	Knock-outs	Tapped for cable gland
<b>XB2 SL</b>	<b>XAP E</b>	<b>XAP A</b>	<b>XAL E</b>	<b>XAL G</b>	<b>XAL F</b>	<b>XAP S</b>

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