

# Control and signalling units Ø 22

Harmony® XB5, plastic

Pushbuttons, switches and pilot lights

1

**Description**

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

**Complete units, XB5 A**

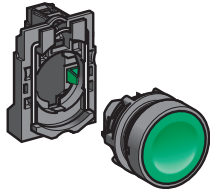


Pushbuttons and switches



Pilot lights

**Sub-assemblies, ZB5 A**

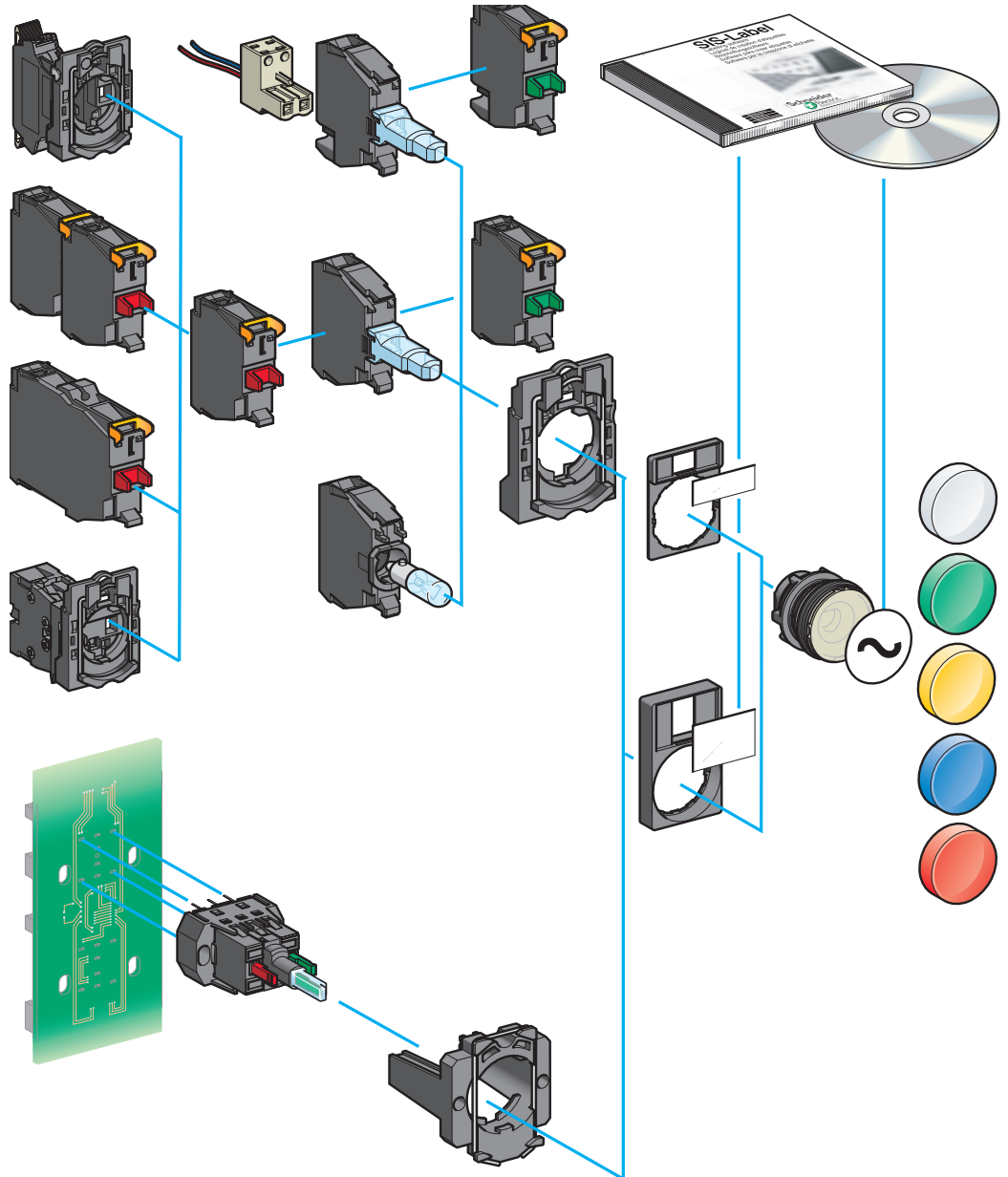


Pushbuttons and switches:  
body + head sub-assemblies



Pilot lights:  
body + head sub-assemblies

**ZB component parts and accessories**



## Schematic library

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

<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 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    With spring return</b>	<b>Without spring return    With spring return</b>

**Complete units**

**Contact functions**

**Pushbuttons, spring return**



Flush push, unmarked  
XB5 AA●1/AA42  
see page 1/136



Flush push, with marking  
XB5 AA3311/AA33●1  
see page 1/140



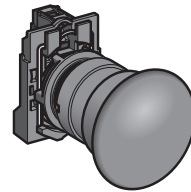
Projecting push, with marking  
XB5 AL4322  
see page 1/140



Booted flush push  
XB5 AP●1/AP42  
see page 1/139



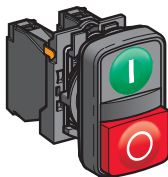
Projecting push, unmarked  
XB5 AL42  
see page 1/138



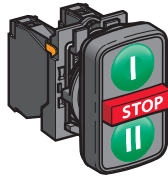
Ø 40

Mushroom head  
XB5 AC21  
see page 1/146

**Multiple-headed pushbuttons, spring return**

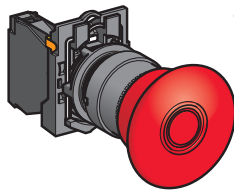


Double-headed  
XB5 AL73415  
see page 1/144



Triple-headed  
XB5 AA731327/XB5 AA711237  
see page 1/145

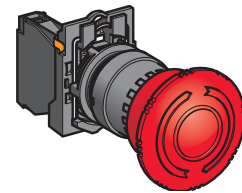
**Emergency Stop or Emergency switching off mushroom head pushbuttons, Ø 40**



Ø 40

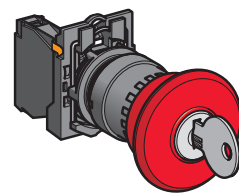
**Emergency stop trigger action and mechanical latching**

Push-pull (EN/ISO 13850)  
XB5 AT845  
see page 1/148



Ø 40

Turn to release (EN/ISO 13850)  
XB5 AS8●4  
see page 1/148



Ø 40

Key release (EN/ISO 13850)  
XB5 AS9445  
see page 1/148

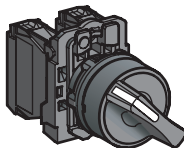
**Emergency switching off mechanical latching**

Push-pull (IEC 60364-5-53)  
XB5 AT42  
see page 1/149

Turn to release (IEC 60364-5-53)  
XB5 AS542  
see page 1/149

Key release (IEC 60364-5-53)  
XB5 AS142  
see page 1/149

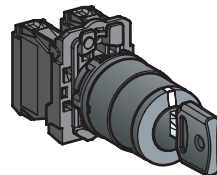
**Selector switches and key switches**



Standard handle, black  
XB5 AD●●  
see page 1/152



Long handle, black  
XB5 AJ●●  
see page 1/153



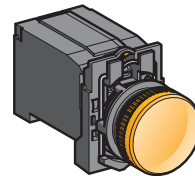
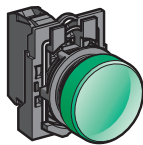
Key switch  
XB5 AG●●  
see page 1/154

## Complete units

(continued)

### Pilot lights

## Signalling functions



Integral LED

**XB5 AVB●/AVG●/AVM●**  
see page 1/158

For bulb with BA 9s base fitting  
Direct supply

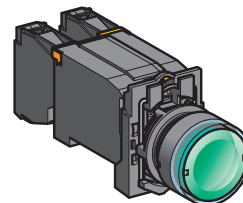
**XB5 AV6●**  
see page 1/159

Via integral transformer

**XB5 AV3●/AV4●**  
see page 1/159

## Combined functions (contact + signalling)

### Illuminated pushbuttons, spring return, flush push



Integral LED

**XB5 AW3●B5/AW3●G5/AW3●M5**  
see page 1/141

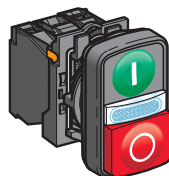
For bulb with BA 9s base fitting  
Direct supply

**XB5 AW3●65**  
see page 1/143

Via integral transformer

**XB5 AW3●35/AW3●45**  
see page 1/143

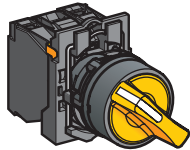
### Double-headed pushbuttons, spring return, + pilot light block



Integral LED

**XB5 AW73731●5**  
see page 1/144

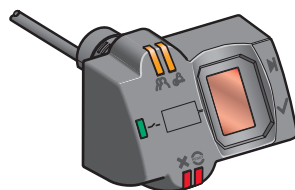
### Illuminated selector switches, standard handle



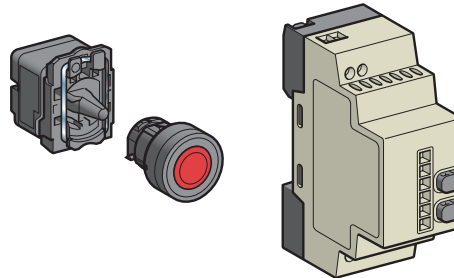
Integral LED

**XB5 AK12●5, XB5 AK13●5**  
see page 1/156

### Biometric switches



### Wireless and batteryless pushbuttons



Fingerprint reader biometric switches  
Bistable or monostable type, 24 V d.c.

**XB5 S●B●●●●**  
see page 1/200

Wireless and batteryless pushbuttons  
24 V d.c. or 24...240 V a.c./d.c.

**XB5 R●●●●**  
see page 1/208

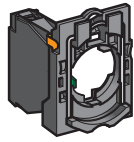
1

**Non illuminated units for user assembly**

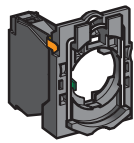
**Contact functions**

For pushbuttons, spring return, unmarked

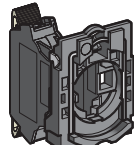
**Body sub-assemblies**



Screw clamp terminals  
ZB5 AZ10●/AZ141  
page 1/162



Faston  
ZB5 AZ10●3  
page 1/166



Spring clamp terminals  
ZBE 10●5  
ZB5 AZ10●5  
page 1/164

For pushbuttons, spring return, with marking

For multiple-headed pushbuttons, spring return

For "push-push to release" pushbuttons

For "push-turn to release" pushbuttons

**Head sub-assemblies**



Flush push without cap/with set of 6 caps  
ZB5 AA0/AA9  
page 1/136

Flush push  
ZB5 AA●  
page 1/136

Flush push for insertion of legend  
ZB5 AA●8  
page 1/136

Flush push, cap mounted/not mounted  
ZB5 CA0/CA●  
page 1/136



Projecting  
ZB5 AL●  
page 1/138



Recessed push  
ZB5 AA●  
page 1/137



Booted flush push, for insertion of legend  
ZB5 AP●●/AP●S  
page 1/138



Projecting or recessed push  
ZB5 CA●/CL●  
page 1/137



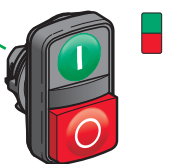
Flush push  
ZB5 AA●3●/AA●4●  
page 1/140



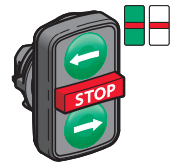
Projecting push  
ZB5 AL●  
page 1/140



Flush push  
ZB5 CA●3●/ CA●9●  
page 1/140



Double-headed  
ZB5 AA7●●●/AA79  
ZB5 AL734●  
page 1/144



Triple-headed  
ZB5 AA7313●, ZB5 AA711●●  
ZB5 AA72124, ZB5 AA791  
page 1/145



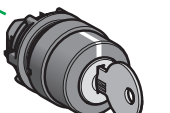
Flush push (caps mounted/not mounted)  
ZB5 AH●●/CH●●  
page 1/150



Projecting push  
ZB5 AH●  
page 1/150



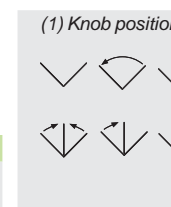
Flush push (caps mounted/not mounted)  
ZB5 CH0/CH0●  
page 1/150



Key switches  
ZB5 AFD●  
page 1/151



Knurled knob (1)  
ZB5 AF  
page 1/151



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

For mushroom head pushbuttons

**Body sub-assemblies**



Screw clamp terminals  
ZB5 AZ10●/AZ141  
page 1/162

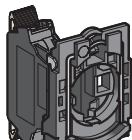
For Emergency Stop or Emergency switching off mushroom head pushbuttons



Emergency stop trigger action and mechanical latching

Faston  
ZB5 AZ10●3  
page 1/166

Emergency switching off mechanical latching



Emergency stop trigger action and mechanical latching

Spring clamp terminals  
ZBE 10●5  
ZB5 AZ10●5  
page 1/164

Emergency switching off mechanical latching

For selector switches and key switches

For toggle switches

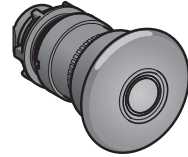
**Contact functions (continued)**

**Head sub-assemblies**



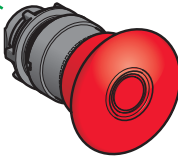
- ●
  - ●
  - ●
  - ●
- Ø 30  
Ø 40  
Ø 60

Spring  
ZB5 AC●/AR●  
see page 1/146



- -
- Ø 30  
Ø 40  
Ø 60

Latching  
ZB5 A●2/AS●2/AS55  
see page 1/147



- 
- Ø 30  
Ø 40  
Ø 60

Push-pull (EN/ISO 13850)  
ZB5 AT84  
see page 1/148

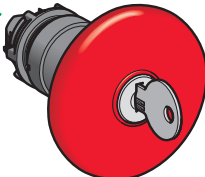


- 
- Ø 30  
Ø 40  
Ø 60

Turn to release (EN/ISO 13850)  
ZB5 AS8●4  
see page 1/148

Push-pull (IEC 60364-5-53)  
ZB5 AT●/AX●  
see page 1/149

Turn to release (IEC 60364-5-53)  
ZB5 AS44/AS54/AS64  
see page 1/149



- 
- Ø 30  
Ø 40  
Ø 60

Key release (EN/ISO 13850)  
ZB5 AS9●4/AS944D, see page 1/148

Key release (IEC 60364-5-53)  
ZB5 AS●4/AS14D, see page 1/149



- ● ● ●
- ● ● ●

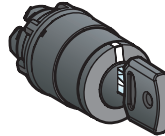
Standard handle (1)  
ZB5 AD●  
page 1/152



Long black handle (1)  
ZB5 AJ●  
page 1/153

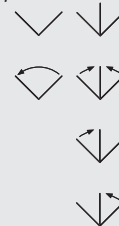


Knurled black knob (1)  
ZB5 AD●9  
page 1/155

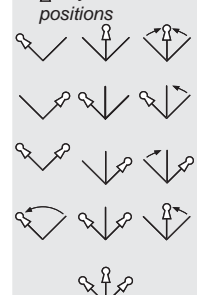


Key switch (2)  
ZB5 AG●●  
page 1/155

(1) Switch handle and knob positions



(2) Key switch positions



(3) Lever positions



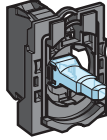
2-position lever (3)  
ZB5 AD●8  
see page 1/155

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**Pilot lights for user assembly**

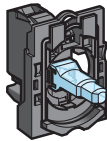
**Signalling functions**

**Body sub-assemblies with integral LED**



Protected LED

Connection: screw clamp terminals  
ZB5 AVB/AVG/AVM  
see page 1/170



Protected LED

Connection: plug-in connector  
Please consult your customer care centre

**Head sub-assemblies**



With lens fitted (insertion of legend)  
ZB5 AV0●3/AV0●3E, see page 1/158



With lens fitted  
ZB5 CV0●3, see page 1/158



With 5 lens caps (not fitted) for insertion of legend  
ZB5 AV003/AV0●3●, see page 1/158

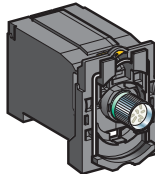


With 5 separate lens caps, not fitted  
ZB5 CV003, see page 1/158

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

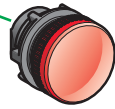


Direct supply  
Connection: screw clamp terminals  
ZB5 AV6, page 1/173



Via integral transformer  
Connection: screw clamp terminals  
ZB5 AV●/AV3D●/AV5D●  
page 1/173

**Head sub-assemblies**



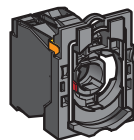
With lens fitted  
ZB5 AV0●, see page 1/159

**Illuminated pushbuttons for user assembly**

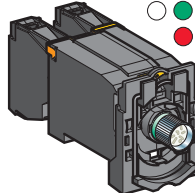
**Combined functions (contact + signalling)**

For illuminated pushbuttons, spring return

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

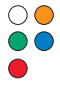


Direct supply  
Connection: screw clamp terminals  
ZB5 AW06●, page 1/172



Via integral transformer  
Connection: screw clamp terminals  
ZB5 AW03●/AW04●/AW05●  
see page 1/172

**Head sub-assemblies**



Flush  
ZB5 AW3●/AW3●S, see page 1/142



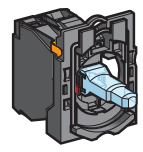
Projecting  
ZB5 AW1●/AW1●S, see page 1/142

## Illuminated pushbuttons for user assembly

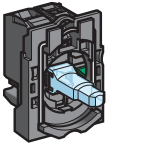
For illuminated pushbuttons, spring return

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

### Body sub-assemblies with integral LED



Connection: screw clamp terminals  
ZB5 AW0B/AW0G/AW0M  
see page 1/168



Connection: plug-in connector  
Please consult your customer care centre

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



Double-headed (flush/flush push) + central pilot light  
Double-headed (flush/projecting push) + central pilot light  
ZB5 AW7A17●●, ZB5 AW7A374●, ZB5 AW7A9, see page 1/144  
ZB5 AW7L374●, see page 1/144

For illuminated, mushroom head pushbuttons, latching

Connection: spring clamp terminals  
ZBV ●●5  
see page 1/164

For illuminated mushroom head pushbuttons

- Emergency Stop with trigger action and mechanical latching

or

- Emergency switching off with mechanical latching only


### Head sub-assemblies



Flush push  
Flush push with illuminated ring  
ZB5 AW3●3/AW3●3S/AW9●3  
see page 1/168

Flush push  
Flush push for insertion of legend  
ZB5 AA●8  
see page 1/136

Booted flush push  
ZB5 AW5●3  
see page 1/142



Projecting push  
ZB5 AW1●3/AW1●3S  
see page 1/142

Flush or projecting push  
Flush or projecting push for insertion of legend  
ZB5 CW3●3/CW1●3  
see page 1/142

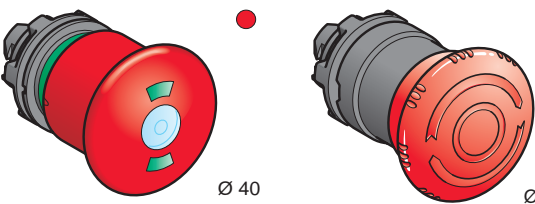


Double-headed (flush/flush push) + central pilot light  
Double-headed (flush/projecting push) + central pilot light  
ZB5 AW7A17●●, ZB5 AW7A374●, ZB5 AW7A9, see page 1/144  
ZB5 AW7L374●, see page 1/144



Ø 40

Turn to release  
ZB5 AW7●3, see page 1/147

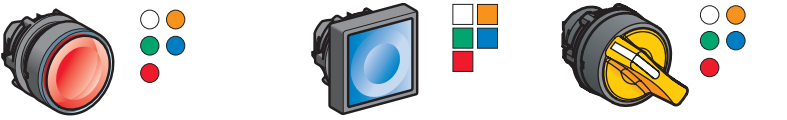


Ø 40

Push-pull with mechanical state indicator (EN/ISO 13850)  
ZB5 AT8643M  
see page 1/148

Turn to release (IEC 60364-5-53)  
ZB5 AW743  
see page 1/149

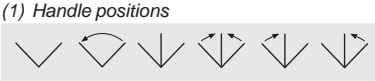
For illuminated "push-push to release" pushbuttons  
For illuminated selector switches, standard handle



Flush or projecting "push-push to release"  
ZB5 AH0●3/AH●3  
see page 1/150

Flush "Push-push to release"  
ZB5 CH3●3  
see page 1/150

Standard handle (1)  
ZB5 AK1●●3  
see page 1/157





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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 II
Degree of protection	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
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	UL, CSA, GOST, CCC and CE		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 (Emergency stop trigger action and mechanical latching pushbuttons, see page 1/148) IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons, see page 1/148) EN 81-1 (Emergency stop illuminated, trigger action and mechanical latching pushbuttons with mechanical state indicator, see page 1/148) UL 508, CSA C22-2 n° 14, GB 14048.5
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 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, GOST, CCC		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 1/134)

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

**Characteristics of contact or combined contact and signalling functions (continued) (see page 1/134)**

**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 4 contacts 0.3 with 2 contacts (Emergency stop with mechanical state indicator) 0.1 with 2 contacts (Emergency switching off illuminated pushbutton)
Joystick controller		1	
<b>Vibration resistance</b>	Standard contact block only		5
	Low power switching contact block only (dust protected)		0.5
	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: □ half sine wave acceleration 11 ms: 50 gn □ half sine wave acceleration 18 ms: 30 gn
			Spring return mushroom head pushbutton: □ half sine wave acceleration 11 ms: 15 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 60947-5-1	<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: U <sub>i</sub> = 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: U <sub>i</sub> = 250, degree of pollution 3
<b>Rated impulse withstand voltage</b>	Conforming to EN/IEC 60947-1	<b>kV</b>	Standard single and double blocks with screw clamp or spring terminals: U <sub>imp</sub> = 6 Blocks for plug-in connector Standard blocks for printed circuit board connection Contact blocks for high-power switching: U <sub>imp</sub> = 4

**Characteristics of contact or combined contact and signalling functions (continued) (see page 1/134)**

**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 XD5 PA/ZD5 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 blocks 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>	<b>Low power switching</b>		<p><b>VA</b> P max: 12 <b>A</b> I max: 0.1 <b>V</b> U max: 24</p>												
	<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	<p><b>VA</b> P max: 240 <b>A</b> I max: 10 <b>V</b> U: 24 ---</p>												
<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	<p><b>V</b> Standard single blocks with screw clamp terminals or spring terminals:</p> <table border="1"> <tr> <td>24</td> <td>120</td> <td>230</td> </tr> <tr> <td>4</td> <td>3</td> <td>2</td> </tr> </table> <p><b>A</b></p> <p><b>V</b> Standard double blocks with screw clamp terminals and blocks for plug-in connector:</p> <table border="1"> <tr> <td>24</td> <td>120</td> <td>230</td> </tr> <tr> <td>3</td> <td>1.5</td> <td>1</td> </tr> </table> <p><b>A</b></p>	24	120	230	4	3	2	24	120	230	3	1.5	1
		24	120	230											
		4	3	2											
		24	120	230											
3	1.5	1													
d.c. supply for 1 million operating cycles utilisation category DC-13	<p><b>V</b> Standard single blocks with screw clamp terminals or spring terminals:</p> <table border="1"> <tr> <td>24</td> <td>110</td> </tr> <tr> <td>0.5</td> <td>0.2</td> </tr> </table> <p><b>A</b></p> <p><b>V</b> Standard double blocks with screw clamp terminals and blocks for plug-in connector:</p> <table border="1"> <tr> <td>24</td> <td>110</td> </tr> <tr> <td>0.4</td> <td>0.15</td> </tr> </table> <p><b>A</b></p>	24	110	0.5	0.2	24	110	0.4	0.15						
24	110														
0.5	0.2														
24	110														
0.4	0.15														
<b>Electrical reliability</b> Failure rate Conforming to EN/IEC 60947-5-4	In clean environment	Standard blocks	<p>- at 17 V and 5 mA, with confidence level of 90 %: <math>\lambda_{90} = 10^{-8}</math>, defect contact voltage drop = 1.7 V</p> <p>- at 5 V and 1 mA, with confidence level of 90 %: <math>\lambda_{90} = 10^{-7}</math>, defect contact voltage drop = 1 V</p> <p>At 5 V and 1 mA, with confidence level of 90 %: <math>\lambda_{90} = 5 \cdot 10^{-8}</math>, defect contact voltage drop = 1 V</p>												
	In dusty environment	Special blocks with gold flashed contacts for low power switching	At 5 V and 1 mA, with confidence level of 90 %: $\lambda_{90} = 5 \cdot 10^{-8}$ , defect contact voltage drop = 1 V												
		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
Mechanical 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 ~ and 10.2 to 13.8 ~ 24 V: 19.2 to 30 ~ and 21.6 to 26.4 ~ 24 to 120 V: 19.2 to 132 ~ and 21.6 to 132 ~ 110 to 120 V: 94 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 1/163)
Electromagnetic emission	Conforming to IEC 55011		Class B

#### Specific characteristics

##### Fixing nut

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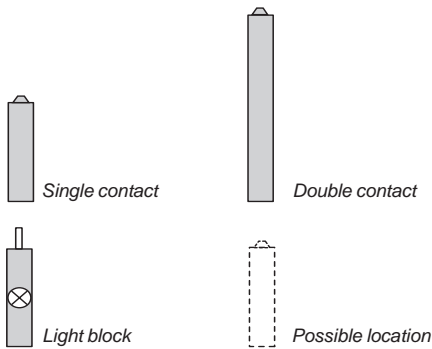
##### Hour counters and annunciators

Voltage limits	Hour counter and annunciator	V	± 10% of the nominal voltage
Current consumption	Hour counter	mA	XB5 DSB: 7 to 15 XB5 DSG: 8 XB5 DSM: 8
	Annunciator	mA	5

1

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

Unit type (complete units XB5 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 (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 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		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 ZB5 AW743	
4	4	5	4	6	4	6	3	3	2			
2	1	2	1	2	2	3	-	-	-	-	-	
+	+	+	+	+	+	+	-	-	-	-	-	
0	2	1	2	2	0	0	-	-	-	-	1	
-	-	-	-	-	1	-	-	-	-	-	1	

**Sequence of contacts fitted to selector switch bodies**

Unit type			Selector switches														
			2-position			3-position											
			315°		45°		315°		0°		45°						
Push	Position	Top															
		Bottom															
	Location		L	C	R	L	C	R	L	C	R	L	C	R			
	State		0	0	0	1	1	1	1	1	0	0	0	0	0	1	1
Contacts	N/O		□	□	□	■	■	■	■	■	□	□	□	□	□	■	■
	N/C		■	■	■	□	□	□	□	□	■	■	■	■	■	□	□
L left, C centre, R right																	
□ open, ■ closed																	

Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see pages 1/174 and 1/178

1

Pushbuttons with flush push <sup>(1)</sup>						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
		 N/O	 N/C			
kg						
<b>Complete units</b>						
	Flush	1	-	White	<b>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			
<b>Heads only, circular</b>						
	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>			White	<b>ZB5 AA18</b>	0.018
				Green	<b>ZB5 AA38</b>	0.018
				Red	<b>ZB5 AA48</b>	0.018
				Yellow	<b>ZB5 AA58</b>	0.018
				Blue	<b>ZB5 AA68</b>	0.018
	Flush (high bezel)			White	<b>ZB5 AA14</b>	0.020
				Black	<b>ZB5 AA24</b>	0.020
				Green	<b>ZB5 AA34</b>	0.020
				Red	<b>ZB5 AA44</b>	0.020
				Yellow	<b>ZB5 AA54</b>	0.020
				Blue	<b>ZB5 AA64</b>	0.020
<b>Heads only, square</b>						
	Without cap <sup>(2)</sup>			-	<b>ZB5 CA0</b>	0.022
	Flush			White	<b>ZB5 CA1</b>	0.019
				Black	<b>ZB5 CA2</b>	0.019
				Green	<b>ZB5 CA3</b>	0.019
				Red	<b>ZB5 CA4</b>	0.019
				Yellow	<b>ZB5 CA5</b>	0.019
				Blue	<b>ZB5 CA6</b>	0.019

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134

(2) Coloured cap to be ordered separately: see page 1/174.

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

(4) For legend ordering information, see page 1/183.

Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see pages 1/174 and 1/178




ZB5 AA16




ZB5 CA16

## 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

## Heads only, square

	Recessed (high guard)	White	ZB5 CA16	0.012
		Black	ZB5 CA26	0.012
		Green	ZB5 CA36	0.012
		Red	ZB5 CA46	0.012
		Yellow	ZB5 CA56	0.012
		Blue	ZB5 CA66	0.012

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.



Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see pages 1/174 and 1/178

1








XB5 AL42



ZB5 AL3



ZB5 CL1

Pushbuttons with projecting push <sup>(1)</sup>						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
		 N/O	 N/C			
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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.

Assembly of other products using:  
body/contact assemblies: see page 1/162  
combined sub-assemblies: see page 1/168  
accessories: see page 1/174



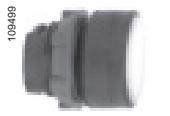
XB5 AP51



ZB5 AP4



ZB5 AP2S



ZB5 AP183

### Pushbuttons with booted head (1)

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

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
		N/O	N/C			
<b>Complete units</b>						
	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 1/134.

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

(3) To order a legend for insertion within the head, see page 1/183.

(4) Replacement of silicone protection element without dismantling head, see page 1/176.

Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see pages 1/174 and 1/178

1



XB5 AA4322



ZB5 AA331



ZB5 AA432





ZB5 CA432








ZB5 AL232

### Pushbuttons with flush or projecting push (1)




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

Shape of head	Type of push	Type of contact		Marking Text (colour)	Colour of push	Reference	Weight
		 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 1/134.

(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see pages 1/174 and 1/178

# 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
	~ 110...120 50/60 Hz	White	<b>XB5 AW31G5</b> (ZB5 AW0G15 + ZB5 AW313)	0.056			
		Green	<b>XB5 AW33G5</b> (ZB5 AW0G35 + ZB5 AW333)	0.056			
		Red	<b>XB5 AW34G5</b> (ZB5 AW0G45 + ZB5 AW343)	0.056			
		Orange	<b>XB5 AW35G5</b> (ZB5 AW0G55 + ZB5 AW353)	0.056			
		Blue	<b>XB5 AW36G5</b> (ZB5 AW0G65 + ZB5 AW363)	0.056			
		~ 230...240 50/60 Hz	White	<b>XB5 AW31M5</b> (ZB5 AW0M15 + ZB5 AW313)	0.056		
	Green		<b>XB5 AW33M5</b> (ZB5 AW0M35 + ZB5 AW333)	0.056			
	Red		<b>XB5 AW34M5</b> (ZB5 AW0M45 + ZB5 AW343)	0.056			
	Orange		<b>XB5 AW35M5</b> (ZB5 AW0M55 + ZB5 AW353)	0.056			
	Blue		<b>XB5 AW36M5</b> (ZB5 AW0M65 + ZB5 AW363)	0.056			

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.

814396

XB5 AW31B5



814396

XB5 AW34G5

Assembly of other products using:  
combined sub-assemblies: see page 1/168  
accessories: see page 1/174

1



#### Illuminated pushbuttons with flush push (1)

Shape of head	Type of push	Colour	Reference	Weight (kg)
<b>Heads only, circular (2) - With plain lens</b>				
	Flush	White	ZB5 AW313	0.017
		Green	ZB5 AW333	0.017
		Red	ZB5 AW343	0.017
		Orange	ZB5 AW353	0.017
		Blue	ZB5 AW363	0.017
	Flush with illuminated ring	White	ZB5 AW913	0.016
		Green	ZB5 AW933	0.016
		Red	ZB5 AW943	0.016
		Orange	ZB5 AW953	0.016
		Blue	ZB5 AW963	0.016
	Flush with clear boot (IP 69 K)	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) (IP 69 K)	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
<b>Heads only, circular (2) - With grooved lens (4)</b>				
	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
<b>Heads only, square (2)</b>				
	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 1/134.

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

(3) For legend ordering information, see page 1/178.

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

Assembly of other products using:  
combined sub-assemblies: see page 1/168  
accessories: see page 1/174



# Control and signalling units Ø 22

Harmony® XB5, plastic





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

## Illuminated pushbuttons with flush push (1)

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

Shape of head	Description	Type of contact		Supply voltage	Colour of push	Reference	Weight
							

### Complete units - With plain lens

 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	White	<b>XB5 AW3145</b> (ZB5 AW045 + ZB5 AW31)	0.129
										~ 220...240 60 Hz	Green	<b>XB5 AW3345</b> (ZB5 AW045 + ZB5 AW33)	0.129
										Red	<b>XB5 AW3445</b> (ZB5 AW045 + ZB5 AW34)	0.129	
										Orange	<b>XB5 AW3545</b> (ZB5 AW045 + ZB5 AW35)	0.129	

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

 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

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

	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

## Illuminated pushbuttons with projecting push (1)

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

	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

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

	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 1/134.

(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 1/162  
combined sub-assemblies: see page 1/168

1



XB5 AL73415



ZB5 AA7121



ZB5 AL7341



XB5 AW73731M5



ZB5 AW7A1721



ZB5 AW7A3741

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	XB5 AL73415	0.053

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

	1 flush black push 1 projecting red push			Green background + red background, unmarked	ZB5 AL7340	0.023
				White "I" on green background White "0" on red background	ZB5 AL7341	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	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	24 120 240	0.066 0.066 0.066

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

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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.

(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.

User assembly of other units, using:  
body-contacts assemblies: see page 1/162  
combined sub-assemblies: see page 1/168

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>XB5 AA731327</b>	0.063
					Black "→" on white background White "←" on black background	<b>XB5 AA711237</b>	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	<b>ZB5 AA73132</b>	0.023
					White "←" on green background White "→" on green background	<b>ZB5 AA73133</b>	0.023
					White "↑" on green background White "↓" on green background	<b>ZB5 AA73134</b>	0.023
					White "+" on green background White "-" on green background	<b>ZB5 AA73135</b>	0.023
					Black "+" on white background Black "-" on white background	<b>ZB5 AA71115</b>	0.023
					Black "→" on white background White "←" on black background	<b>ZB5 AA71123</b>	0.023
					Black "↑" on white background White "↓" on black background	<b>ZB5 AA71124</b>	0.023
					White "↑" on black background White "↓" on black background	<b>ZB5 AA72124</b>	0.023
					Without cap (4)	<b>ZB5 AA791</b>	0.023

### Specific accessories for multiple-headed pushbuttons

Description	Background colour	Marking	Sold in lots of	Reference	Weight kg	
Caps only for clip-on mounting (5) on: - ZB5 AA79 double-headed pushbuttons - ZB5 AW7A9 double-headed pushbuttons + central pilot light block - ZB5 AA791 triple-headed pushbuttons	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	
			"I" white	10	<b>ZBA 7237</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		
		"II" white	10	<b>ZBA 7336</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		
	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	

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.

(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




Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see page 1/174





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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
		N/O	N/C				

**Complete units**

Shape of head	Type of push	Type of contact	Push Ø (mm)	Colour	Reference	Weight
	Mushroom head	1	40	Black	<b>ZB5 AC21</b> (ZB5 AZ101 + ZB5 AC2)	0.062

**Heads only**

Shape of head	Type of push	Push Ø (mm)	Colour	Reference	Weight
	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
	Mushroom head	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
	Mushroom head	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
	Hemispherical	60 (3)	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 1/134  
 (3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head: 6.

Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see page 1/174

## 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	
<b>Heads only</b>						
 110354 ZB5 AT2	 Push-pull	30	Black	ZB5 AT24	0.044	
		40	Black	ZB5 AT2	0.049	
		60	Black	ZB5 AX2	0.067	
 53558 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	
 623835 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	
<b>Illuminated mushroom head pushbuttons (2)</b>						
Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg	
<b>Heads only (6)</b>						
 103547 ZB5 AW733	 Turn to release 	40	White	ZB5 AW713	0.022	
			Green	ZB5 AW733	0.022	
			Orange	ZB5 AW753	0.022	
			Blue	ZB5 AW763	0.022	

(1) These pushbuttons and heads cannot be used for an Emergency Stop function. Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.

(3) For specific keys with other numbers, please consult your customer care centre.

(4) Other key numbers:  
- key n° 421E: add suffix **12** to the reference.  
- key n° 458A: add suffix **10** to the reference.  
- key n° 520E: add suffix **14** to the reference.  
- key n° 3131A: add suffix **20** to the reference.  
Example: To order a Ø 40 black mushroom head for a latching pushbutton, with release by key n° 421E, the reference becomes: **ZB5 AS1212**.

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

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

Assembly of other products using:  
body/contact assemblies: see page 1/162  
combined sub-assemblies: see page 1/168  
accessories: see pages 1/183 and 1/184

1

Mushroom head Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850, to Machinery Directive 2006/42/EC and to standard EN/IEC 60947-5-5. Please consult your customer care centre for a full explanation of these standards and directives.



XB5 AT845



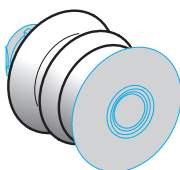
XB5 AS8445



XB5 AS9445



ZB5 AS844



ZBZ 8



ZB5 AT8643M

### 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		Reference	Weight kg
		Ø (mm)	Colour		
	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
		40	Red	<b>ZB5 AS944D</b>	0.071

#### Bellows for harsh environments (IP 69K) (6)

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 (8)	40	Red	<b>ZB5 AT8643M</b>	0.034

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.

(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 customer care centre.

(6) Not compatible with Ø 30 pushbuttons.

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

(8) Cannot be used with metal guards ZBZ 160.

Assembly of other products using:  
 body/contact assemblies: see page 1/162  
 combined sub-assemblies: see page 1/168  
 accessories: see pages 1/183 and 1/184



# 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 customer care centre 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
							

Complete units							
	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
Heads only							
	Push-pull			30	Red	<b>ZB5 AT44</b>	0.049
				40	Red	<b>ZB5 AT4</b>	0.049
				60	Red	<b>ZB5 AX4</b>	0.067
	Turn to release			30	Red	<b>ZB5 AS44</b>	0.040
				40	Red	<b>ZB5 AS54</b>	0.044
				60	Red	<b>ZB5 AS64</b>	0.064
	Key release (key n° 455) 2 keys included with head <sup>(5)</sup>  (3)			30	Red	<b>ZB5 AS74</b>	0.040
				40	Red	<b>ZB5 AS14 <sup>(4)</sup></b>	0.044
				60	Red	<b>ZB5 AS24</b>	0.060
				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	

Heads only <sup>(6)</sup>						
	Turn to release	40	Red	<b>ZB5 AW743</b>	0.022	



(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.

(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 customer care centre.

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



XB5 AS542



ZB5 AT4



ZB5 AS64



ZB5 AS24





Assembly of other products using:  
body/contact assemblies: see page 1/162  
combined sub-assemblies: see page 1/168  
accessories: see page 1/174

1




ZB5 AH04





## 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

## 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 1/134.

(2) Caps to be ordered separately, see page 1/174.


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

Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see page 1/174




ZB5 AFDA

## 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

## 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 1/134.

(2) Coloured caps to be ordered separately: see page 1/174.

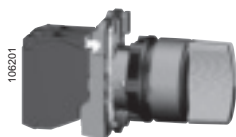
Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see page 1/174

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#### 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		

#### Complete units



XB5 AD33

	Standard handle, black	1	–	2-position 90°	Stay put		<b>XB5 AD21</b> (ZB5 AZ101 + ZB5 AD2)	0.043
		1	–		Spring return from right to left		<b>XB5 AD41</b> (ZB5 AZ101 + ZB5 AD4)	0.046
		1	1		Stay put		<b>XB5 AD25</b> (ZB5 AZ105 + ZB5 AD2)	0.043
		2	–	3-position ± 45°	Stay put		<b>XB5 AD33</b> (ZB5 AZ103 + ZB5 AD3)	0.043
					Spring return to centre		<b>XB5 AD53</b> (ZB5 AZ103 + ZB5 AD5)	0.043

#### Heads only



ZB5 AD2












	Standard handle, black			2-position 90°	Stay put		<b>ZB5 AD2</b>	0.017
					Spring return from right to left		<b>ZB5 AD4</b>	0.020
				3-position ± 45°	Stay put		<b>ZB5 AD3</b>	0.017
					Spring return to centre		<b>ZB5 AD5</b>	0.017
					Spring return from left to centre		<b>ZB5 AD7</b>	0.017
					Spring return from right to centre		<b>ZB5 AD8</b>	0.017

#### Heads only with other coloured handles

	Standard handle, white	add suffix <b>01</b> to the reference, example: <b>ZB5 AD201</b>
	Standard handle, green	add suffix <b>03</b> to the reference, example: <b>ZB5 AD203</b>
	Standard handle, red	add suffix <b>04</b> to the reference, example: <b>ZB5 AD204</b>
	Standard handle, yellow	add suffix <b>05</b> to the reference, example: <b>ZB5 AD205</b>
	Standard handle, blue	add suffix <b>06</b> to the reference, example: <b>ZB5 AD206</b>

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.

Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see page 1/174

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	-	-	2-position 90°	Stay put	 <b>ZB5 AJ2</b>	0.017
				3-position ± 45°	Spring return from right to left	 <b>ZB5 AJ4</b>	0.020
					Stay put	 <b>ZB5 AJ3</b>	0.017
				Spring return to centre	 <b>ZB5 AJ5</b>	0.017	
				Spring return from left to centre	 <b>ZB5 AJ7</b>	0.017	
				Spring return from right to centre	 <b>ZB5 AJ8</b>	0.017	

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.










Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see page 1/174
















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Key switches (1)						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Shape of head	Type of operator	Type of contact		Positions		Reference
		N/O	N/C	Number	Type (2)	
						Weight
						kg


**Complete units**

	Key switch with key n° 455	1	-	2-position 90°	Stay put	 <b>XB5 AG21</b> (ZB5 AZ101 + ZB5 AG2)	0.831
						 <b>XB5 AG41</b> (ZB5 AZ101 + ZB5 AG4)	0.831
						 <b>XB5 AG61</b> (ZB5 AZ101 + ZB5 AG6)	0.870
						 <b>XB5 AG03</b> (ZB5 AZ103 + ZB5 AG0)	0.831
		2	-	3-position ± 45°	Stay put	 <b>XB5 AG33</b> (ZB5 AZ103 + ZB5 AG3)	0.831
							

**Heads only**

	Key switch with key n° 455 (3) (4)			2-position 90°	Stay put	 <b>ZB5 AG2</b>	0.057		
						 <b>ZB5 AG02</b>	0.057		
						 <b>ZB5 AG4</b>	0.057		
						 <b>ZB5 AG6</b>	0.061		
						3-position ± 45°	Stay put	 <b>ZB5 AG0</b>	0.057
								 <b>ZB5 AG3</b>	0.057
				 <b>ZB5 AG5</b>	0.057				
				 <b>ZB5 AG9</b>	0.057				
				 <b>ZB5 AG09</b>	0.057				
				 <b>ZB5 AG1</b>	0.057				
				 <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 1/134.

(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 customer care centre.



XB5 AG3



ZB5 AG2



ZB5 AG3








Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see page 1/174




## 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°	Stay put		ZB5 AG6D	0.061
					ZB5 AG0D	0.057
					ZB5 AG3D	0.057
		Spring return from right to left		ZB5 AG5D	0.057	
				ZB5 AG9D	0.057	
				ZB5 AG09D	0.057	
		Spring return from left to centre		ZB5 AG03D	0.057	
				ZB5 AG04D	0.057	
				ZB5 AG06D	0.057	
		Spring return from right to centre		ZB5 AG1D	0.057	
				ZB5 AG07D	0.057	
				ZB5 AG8D	0.057	
Spring return to centre		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	
					3-position ± 45°	Spring return from right to left	
		Stay put	ZB5 AD39	0.020			
			Spring return to centre	ZB5 AD59			
		Spring return from left to centre		ZB5 AD79			
			Spring return from right to centre	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	
					Spring return		ZB5 AD48
	White lever	2-position 90°	Stay put	ZB5 AD2801			0.023
				Red lever			2-position 90°
	Blue lever	2-position 90°	Stay put				

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.

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



ZB5 AD39



ZB5 AD28

Assembly of other products using:  
combined sub-assemblies: see page 1/168  
accessories: see page 1/174

# Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated selector switches with standard handle,  
with integral LED

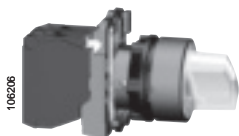
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## Illuminated selector switches with standard handle, with integral LED <sup>(1)</sup>

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

Shape of head	Type of operator	Type of contact	Positions Number Type	Supply voltage	Colour of handle	Reference	Weight
		N/O	N/C	V			kg

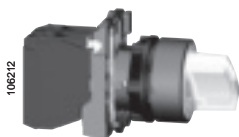
### Complete units



XB5 AK123●5



XB5 AK124●5



XB5 AK125●5



Protected LED

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
					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
	1	1	3-position Stay put ± 45°	≈ 24 (50/60 Hz)	Green	<b>XB5 AK133B5</b> (ZB5 AW0B35 + ZB5 AK1333)	0.516
					Red	<b>XB5 AK134B5</b> (ZB5 AW0B45 + ZB5 AK1343)	0.516
					Orange	<b>XB5 AK135B5</b> (ZB5 AW0B55 + ZB5 AK1353)	0.516
					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
1	1	3-position Stay put ± 45°	≈ 24 (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	
				Green	<b>XB5 AK133M5</b> (ZB5 AW0M35 + ZB5 AK1333)	0.516	
				Red	<b>XB5 AK134M5</b> (ZB5 AW0M45 + ZB5 AK1343)	0.516	
				Orange	<b>XB5 AK135M5</b> (ZB5 AW0M55 + ZB5 AK1353)	0.516	

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/134.









Assembly of other products using:  
combined sub-assemblies: see page 1/168  
accessories: see page 1/174

## 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 Number	Type	Colour of handle	Reference	Weight kg						
<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					
					 ZB5 AK1463	Spring return from right to left	3-position ± 45°	Stay put		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
	Spring return to centre	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 from right to centre	3-position ± 45°	Stay put		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 left to centre	3-position ± 45°	Stay put							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
							3-position ± 45°	Stay put		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 1/134.

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


Assembly of other products using:  
light block sub-assemblies: see page 1/170  
accessories: see page 1/174

1






XB5 AVB1

### Pilot lights with integral LED

Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Shape of head	Supply voltage V	Colour	Reference for monolithic units ▲	Reference for complete units	Weight kg	
<b>Complete units (With plain lens)</b>						
	~ 24 (50/60 Hz)	White	<b>XB5 EVB1</b>	<b>XB5 AVB1</b> (ZB5 AVB1 + ZB5 AV013)	0.038	
		Green	<b>XB5 EVB3</b>	<b>XB5 AVB3</b> (ZB5 AVB3 + ZB5 AV033)	0.038	
		Red	<b>XB5 EVB4</b>	<b>XB5 AVB4</b> (ZB5 AVB4 + ZB5 AV043)	0.038	
		Orange	<b>XB5 EVB5</b>	<b>XB5 AVB5</b> (ZB5 AVB5 + ZB5 AV053)	0.038	
		Blue	<b>XB5 EVB6</b>	<b>XB5 AVB6</b> (ZB5 AVB6 + ZB5 AV063)	0.038	
		Yellow	<b>XB5 EVB8</b>	–	0.038	
		~ 110...120 (50/60 Hz)	White	<b>XB5 EVG1</b>	<b>XB5 AVG1</b> (ZB5 AVG1 + ZB5 AV013)	0.038
			Green	<b>XB5 EVG3</b>	<b>XB5 AVG3</b> (ZB5 AVG3 + ZB5 AV033)	0.038
Red	<b>XB5 EVG4</b>		<b>XB5 AVG4</b> (ZB5 AVG4 + ZB5 AV043)	0.038		
Orange	<b>XB5 EVG5</b>		<b>XB5 AVG5</b> (ZB5 AVG5 + ZB5 AV053)	0.038		
Blue	<b>XB5 EVG6</b>		<b>XB5 AVG6</b> (ZB5 AVG6 + ZB5 AV063)	0.038		
Yellow	<b>XB5 EVG8</b>		–	0.038		
~ 230...240 (50/60 Hz)	White		<b>XB5 EVM1</b>	<b>XB5 AVM1</b> (ZB5 AVM1 + ZB5 AV013)	0.038	
	Green		<b>XB5 EVM3</b>	<b>XB5 AVM3</b> (ZB5 AVM3 + ZB5 AV033)	0.038	
	Red	<b>XB5 EVM4</b>	<b>XB5 AVM4</b> (ZB5 AVM4 + ZB5 AV043)	0.038		
	Orange	<b>XB5 EVM5</b>	<b>XB5 AVM5</b> (ZB5 AVM5 + ZB5 AV053)	0.038		
	Blue	<b>XB5 EVM6</b>	<b>XB5 AVM6</b> (ZB5 AVM6 + ZB5 AV063)	0.038		
	Yellow	<b>XB5 EVM8</b>	–	0.038		

### Heads only, circular (1)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
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	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
	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
	Integral LED only	White	<b>ZB5 AV013S</b>	0.017
		Green	<b>ZB5 AV033S</b>	0.017
		Red	<b>ZB5 AV043S</b>	0.017
		Orange	<b>ZB5 AV053S</b>	0.017
		Blue	<b>ZB5 AV063S</b>	0.017

### Heads only, square (1)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
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	Integral LED only	White	<b>ZB5 CV013</b>	0.020
		Green	<b>ZB5 CV033</b>	0.020
		Red	<b>ZB5 CV043</b>	0.020
		Orange	<b>ZB5 CV053</b>	0.020
		Blue	<b>ZB5 CV063</b>	0.020
		5 colours (2)	<b>ZB5 CV003</b>	0.028

(1) Only for use with bodies comprising a light source with integral LED.  
 (2) Head supplied with 5 different coloured lenses (white, green, red, orange, blue) not fitted, for insertion of legend.  
 (3) For legend ordering information: see page 1/178.  
 (4) For use in bright ambient light conditions (outdoors in sunlight, for example).

▲ Available: 3rd quarter 2011.

Assembly of other products using:  
light block sub-assemblies: see page 1/170  
accessories: see page 1/174


## 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 AV5B1

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 ~ 220...240 - 60 Hz	White	<b>XB5 AV41</b> (ZB5 AV4 + ZB5 AV01)	0.110
		Green	<b>XB5 AV43</b> (ZB5 AV4 + ZB5 AV03)	0.110
		Red	<b>XB5 AV44</b> (ZB5 AV4 + ZB5 AV04)	0.110
		Orange	<b>XB5 AV45</b> (ZB5 AV4 + ZB5 AV05)	0.110

814392





XB5 AV63

814391



XB5 AV34

#### 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>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 (3)				
	<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).

Assembly of other products using:  
body/contact assemblies: see page 1/162  
accessories: see page 1/174

1



XB5 AA

### Manual overload reset buttons (travel 10 mm)

Shape of head	Actuation distance mm	Marking	Colour	Reference	Weight kg
<b>Without cap (1)</b>					
	17...120	–	–	XB5 AA801	0.027
	120...257	–	–	XB5 AA802	0.040
<b>With flush push</b>					
	17...120	Without	Green	XB5 AA831	0.027
			Red	XB5 AA841	0.027
			Blue	XB5 AA861	0.027
			O	XB5 AA84101	0.027
			R	XB5 AA86102	0.027
	120...257	Without	Green	XB5 AA832	0.040
			Red	XB5 AA842	0.040
			Blue	XB5 AA862	0.040
			O	XB5 AA84201	0.040
			R	XB5 AA86202	0.040
<b>With projecting push</b>					
	17...120	O	Red	XB5 AL84101	0.027
	120...257	O	Red	XB5 AL84201	0.040



ZB5 AD

### Heads + mounting base for potentiometer (2)

Shape of head	Description	For use with	Reference	Weight kg
	For potentiometer with shaft length 45 to 50 mm	Ø 6 mm shaft	ZB5 AD912	0.032
		Ø 6.35 mm shaft	ZB5 AD922	0.032

### Hour counters

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



XB5 DS●



XB5 KS●

### Annunciators (IP 40 NEMA 1)

85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 1/188)	~ 24 - 50/60 Hz	XB5 KSB	0.035
	~ 120 - 50/60 Hz	XB5 KSG	0.035
	~ 230...240 - 50 Hz	XB5 KSM	0.035



XB5 DT1S

### Fuse carrier

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

(1) Coloured cap to be ordered separately: see page 1/174.  
(2) Potentiometer not included.



XD5 PA12



ZD5 PA103



ZD5 PA203



ZD5 PA12

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

Description	Operation	Spring return to zero position	Reference	Weight kg
<b>Complete products</b>				
2-direction	1 notch 1 N/O contact per direction	Without	<b>XD5 PA12</b>	0.060
		With	<b>XD5 PA22</b>	0.060
4-direction	1 notch 1 N/O contact per direction	Without	<b>XD5 PA14</b>	0.077
		With	<b>XD5 PA24</b>	0.077

**Sub-assemblies for joystick controllers**

Description	For use with	Reference	Weight kg	
<b>Complete body/contact assemblies</b>	2-direction	<b>ZD5 PA103</b>	0.049	
	4-direction	<b>ZD5 PA203</b>	0.058	
<b>Complete head assemblies with operating shaft</b>	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	
<b>Legends 30 x 48 mm for engraving</b>	2-direction	Black one side Red reverse	<b>ZBG 2201</b>	0.001
		White one side Yellow reverse	<b>ZBG 2401</b>	0.001
		<b>ZBG 2201</b>	0.001	
<b>Legends 48 x 48 mm for engraving</b>	4-direction	Black one side Red reverse	<b>ZBG 4201</b>	0.002
		White one side Yellow reverse	<b>ZBG 4401</b>	0.002
		<b>ZBG 4201</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 customer care centre.



## Control and signalling units Ø 22

Harmony® XB5, plastic

Body/contact assemblies - Screw clamp terminal connections

To combine with heads, see pages 1/136 to 1/160

1



814588

ZB5 AZ009



814285

ZBE 101



814287

ZBE 203



814411

ZB5 AZ101



814285

ZBE 201



814687

ZB5 AZ106



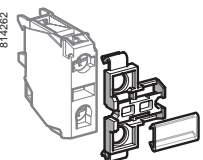
814687

ZB5 AZ107



PF080707

ZBE 505



814282

ZBZ 001

## 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	Symbol		Sold in lots of	Unit reference	Weight kg
		N/O	N/C			
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
		1	1	5	ZBE 205	0.020
	Single with body/fixing collar	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	Symbol		Sold in lots of	Unit reference	Weight kg
			N/O	N/C			
Low power switching	Single	Standard	1	–	5	ZBE 1016	0.012
			–	1	5	ZBE 1026	0.012
	Dusty environment (2) (IP5X, 50 µm dust)	1	–	5	ZBE 1016P	0.012	
		–	1	5	ZBE 1026P	0.012	
Staggered contacts	Single	Early make 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
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
Additional contact blocks for high power switching	Single	Standard (4)	1	–	1	ZB2 BE101	0.020
			–	1	1	ZB2 BE102	0.020

## Clip-on legend holder, sheet of blank legends and labelling software (5)

Description	Sold in lots of	Unit reference	Weight kg
Clip-on legend-holder for electrical blocks with screw clamp terminal connections (5). 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	XYB 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 1/134.

(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) To be fitted on the back of ZBE 50● contacts.

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

General :  
page 1/122Characteristics :  
page 1/130Dimensions :  
page 1/188

To combine with:  
heads, see page 1/142



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

### Flashing light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)

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

### Transformer blocks for 24 V light blocks (1)

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 (2)	0.090

### Blocks for "test light" function

Light blocks	≈ 12 and 24 ≈ 24...120	Single module, 1 connecting wire	ZBZ G156 (3)	0.010
Light blocks with integral LED	≈ 48...230	Double module, with connecting wires	ZBZ M156 (4)	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
fitted with screw clamp terminal connections	≈ 230	30...230 VA	ZBZ VM	0.010

(1) To be used with 2 dummy contact blocks ZBE 000.

(2) 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.

(3) 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.

(4) Block for use ~ light blocks integral LED types ZBV G●, ZBV M●, see connection on page 1/196.



ZBV 5B



ZBZ G156



ZBZ M156



ZBZ V●

814274

814273

080705

522067

522068

To combine with heads, see pages 1/136 to 1/160

1

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

PF10778



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	

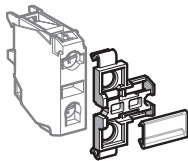
**protected LED**

PF08071



ZBV B35

814262



ZBZ 001

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	

540548



XBY 2U

"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	1		XBY 2U	0.038	

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

To combine with heads, see pages 1/136 to 1/160

814586



ZB5 AZ009

814286



ZB5 AZ079 + ZB5 AZ009

540159



ZBZ 01

814287



ZBE 701

814288



ZBE 702

814289



ZBV B7

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

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

Description	For use with	Sold in lots of	Unit reference	Weight kg
Body/fixing collar	Electrical block (contact or light)	10	ZB5 AZ009	0.006
Fixing collar/pillar	Printed circuit board support (fixing screw ZBZ 006 to be ordered separately)	10	ZB5 AZ079	0.003
Fixing screw for printed circuit board	Fixing collar/pillar ZB5 AZ079	10	ZBZ 006	0.011

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

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

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

##### Contacts for standard applications

Description	Type of contact	Circuit symbols		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	Circuit symbols		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 <sup>(1)</sup>

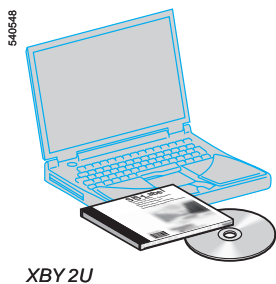
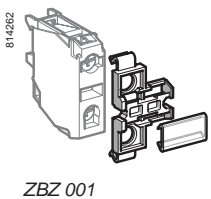
Description	Supply voltage V	Colour of LED	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	≈ 24 (50/60 Hz)	White	5	ZBV B17	0.004
		Green	5	ZBV B37	0.004
		Red	5	ZBV B47	0.004
		Orange	5	ZBV B57	0.004
		Blue	5	ZBV B67	0.004

Protected  
LED

<sup>(1)</sup> For details of support drilling and of printed circuit board: see page 1/199.

To combine with heads, see pages 1/136 to 1/160

1



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

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	0.020
		–	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 <sup>(3)</sup> (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
			N/O	–	1	5	ZBE 2023 (2)
		Late break	–	1	5	ZBE 2023 (2)	0.011
			N/C	–	1	5	ZBE 2023 (2)
High power switching	Single	Standard <sup>(4)</sup>	1	–	1	ZBE 5013	0,021
			–	1	1	ZBE 5023	0,021
			2	–	1	ZBE 5033	0,033
			–	2	1	ZBE 5043	0,033
			1	1	1	ZBE 5053	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 XB5 A control or signalling unit	10	ZBZ 001	0.001

#### Sheet of 50 blank legends

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

For legend design for English, French, German, Italian, Spanish	1	XBY 2U	0.100
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- (1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3.  
Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).
- (2) To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9.  
Example: ZBE 1013 becomes ZBE 1019.
- (3) It is not possible to fit an additional contact block on the back of these contact blocks.
- (4) It is not possible to use these contacts with light blocks.
- (5) This legend holder is not compatible with high power switching contacts.

To combine with heads, see pages 1/136 to 1/160



814588

ZB5 AZ009



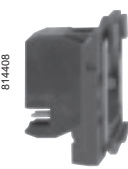
814278

ZBE 1014



814279

ZBE 1024



814408

ZB5 AZ1014



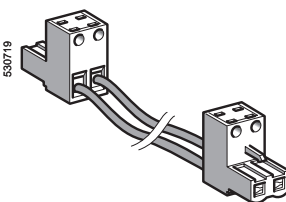
814410

ZB5 AZ1024



814280

ZBV B•4



530719

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
Contact blocks	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
		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.

To combine with:  
heads, see pages 1/141 to 1/157  
contacts, see page 1/162

1

#### Complete body/contact assemblies and light blocks (1)

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>						
Integral LED	≈ 24 (50/60 Hz)	1	–	White	ZB5 AW0B11	0.032
				Green	ZB5 AW0B31	0.032
Protected LED				Red	ZB5 AW0B41	0.032
				Orange	ZB5 AW0B51	0.032
				Blue	ZB5 AW0B61	0.032
		–	1	White	ZB5 AW0B12	0.032
				Green	ZB5 AW0B32	0.032
				Red	ZB5 AW0B42	0.032
				Orange	ZB5 AW0B52	0.032
				Blue	ZB5 AW0B62	0.032
		2	–	White	ZB5 AW0B13	0.042
				Green	ZB5 AW0B33	0.042
				Red	ZB5 AW0B43	0.042
				Orange	ZB5 AW0B53	0.042
				Blue	ZB5 AW0B63	0.042
		1	1	White	ZB5 AW0B15	0.042
				Green	ZB5 AW0B35	0.042
				Red	ZB5 AW0B45	0.042
				Orange	ZB5 AW0B55	0.042
				Blue	ZB5 AW0B65	0.042
	~ 110...120 (50/60 Hz)	1	–	White	ZB5 AW0G11	0.032
Green				ZB5 AW0G31	0.032	
				Red	ZB5 AW0G41	0.032
				Orange	ZB5 AW0G51	0.032
				Blue	ZB5 AW0G61	0.032
		–	1	White	ZB5 AW0G12	0.032
				Green	ZB5 AW0G32	0.032
				Red	ZB5 AW0G42	0.032
				Orange	ZB5 AW0G52	0.032
				Blue	ZB5 AW0G62	0.032
		2	–	White	ZB5 AW0G13	0.042
				Green	ZB5 AW0G33	0.042
				Red	ZB5 AW0G43	0.042
				Orange	ZB5 AW0G53	0.042
				Blue	ZB5 AW0G63	0.042
		1	1	White	ZB5 AW0G15	0.042
				Green	ZB5 AW0G35	0.042
				Red	ZB5 AW0G45	0.042
				Orange	ZB5 AW0G55	0.042
				Blue	ZB5 AW0G65	0.042



(1) Can be fitted with additional contact blocks: see page 1/162.

**Other versions**

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your customer care centre.

To combine with:  
heads, see pages 1/141 to 1/157  
contacts, see page 1/162

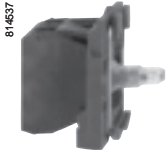
**Complete body/contact assemblies and light blocks (1) (continued)**
**Screw clamp terminal connections (Schneider Electric anti-retightening system)**

Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
		 N/O	 N/C			
	V					kg
<b>Direct supply (continued)</b>						
Integral LED <b>Protected LED</b>	~ 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		

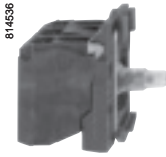
(1) Can be fitted with additional contact blocks: see page 1/162.

**Other versions**

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).  
Please consult your customer care centre.



ZB5 AW0M11



ZB5 AW0M13

814637

814638



# Control and signalling units Ø 22

## Harmony® XB5, plastic

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

To combine with:  
heads, see page 1/158  
contacts, see page 1/162

1



ZB5 AV●●

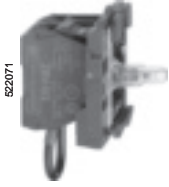
#### Complete light bodies (fixing collar + light block with integral LED)

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

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED <b>protected LED</b>	≈ 12 (50/60 Hz)	White	ZB5 AVJ1	0.022
		Green	ZB5 AVJ3	0.022
		Red	ZB5 AVJ4	0.022
		Orange	ZB5 AVJ5	0.022
		Blue	ZB5 AVJ6	0.022
		≈ 24 (1) (50/60 Hz)	White	ZB5 AVB1
Green	ZB5 AVB3		0.022	
Red	ZB5 AVB4		0.022	
Orange	ZB5 AVB5		0.022	
Blue	ZB5 AVB6		0.022	
≈ 24...120 (50/60 Hz)	White	ZB5 AVBG1	0.022	
	Green	ZB5 AVBG3	0.022	
	Red	ZB5 AVBG4	0.022	
	Orange	ZB5 AVBG5	0.022	
	Blue	ZB5 AVBG6	0.022	
~ 110...120 (1) (50/60 Hz)	White	ZB5 AVG1	0.022	
	Green	ZB5 AVG3	0.022	
	Red	ZB5 AVG4	0.022	
	Orange	ZB5 AVG5	0.022	
	Blue	ZB5 AVG6	0.022	
~ 230...240 (1) (50/60 Hz)	White	ZB5 AVM1	0.022	
	Green	ZB5 AVM3	0.022	
	Red	ZB5 AVM4	0.022	
	Orange	ZB5 AVM5	0.022	
	Blue	ZB5 AVM6	0.022	

(1) Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 1/166.

To combine with:  
heads, see page 1/158  
contacts, see page 1/162



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
		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 1/163.

To combine with heads, see page 1/143  
contacts, see page 1/162

1

814549



ZB5 AW065

### Complete body/contact assemblies and light blocks <sup>(1)</sup>

For bulb with BA 9s base fitting (incandescent, neon or LED)

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

Light source	Supply voltage V	Type of contact		Colour of light source	Reference	Weight kg	
		N/O	N/C				
<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		
			Blue	ZB5 AW05D65	0.120		

(1) Can be fitted with additional contact blocks: see page 1/162.

(2) Bulb to be ordered separately: see page 1/186.

#### Other versions

Complete bodies with integral transformer incorporating Faston connector terminals (6.35 or 2 x 2.8). Please consult your customer care centre.

To combine with:  
heads, see page 1/159  
contacts, see page 1/162

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

Direct supply				
BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB5 AV6	0.022

Supply via integral transformer (1.2 VA, 6 V secondary)				
BA 9s base fitting incandescent bulb, included	~ 110...120 -50/60 Hz	–	ZB5 AV3	0.099
	~ 230 - 50 Hz	–	ZB5 AV4	0.099
	~ 220...240 - 60 Hz	–	ZB5 AV5	0.099
	~ 400 - 50 Hz	–	ZB5 AV8	0.099
	~ 440...480 - 60 Hz	–	ZB5 AV9	0.099

BA 9s base fitting incandescent bulb, included	~ 550...600 - 60 Hz	–	ZB5 AV9	0.099
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BA 9s base fitting LED, included	~ 110...120 - 50/60 Hz	White	ZB5 AV3D1	0.102
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BA 9s base fitting LED, included	~ 110...120 - 50/60 Hz	Green	ZB5 AV3D3	0.102
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BA 9s base fitting LED, included	~ 110...120 - 50/60 Hz	Red	ZB5 AV3D4	0.102
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BA 9s base fitting LED, included	~ 110...120 - 50/60 Hz	Orange	ZB5 AV3D5	0.102
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BA 9s base fitting LED, included	~ 110...120 - 50/60 Hz	Blue	ZB5 AV3D6	0.102
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BA 9s base fitting LED, included	~ 230 - 50 Hz	White	ZB5 AV4D1	0.102
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BA 9s base fitting LED, included	~ 230 - 50 Hz	Green	ZB5 AV4D3	0.102
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BA 9s base fitting LED, included	~ 220...240 - 60 Hz	Red	ZB5 AV4D4	0.102
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BA 9s base fitting LED, included	~ 220...240 - 60 Hz	Orange	ZB5 AV4D5	0.102
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BA 9s base fitting LED, included	~ 220...240 - 60 Hz	Blue	ZB5 AV4D6	0.102
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BA 9s base fitting LED, included	~ 400 - 50/60 Hz	White	ZB5 AV5D1	0.102
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BA 9s base fitting LED, included	~ 400 - 50/60 Hz	Green	ZB5 AV5D3	0.102
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BA 9s base fitting LED, included	~ 400 - 50/60 Hz	Red	ZB5 AV5D4	0.102
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BA 9s base fitting LED, included	~ 400 - 50/60 Hz	Orange	ZB5 AV5D5	0.102
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BA 9s base fitting LED, included	~ 400 - 50/60 Hz	Blue	ZB5 AV5D6	0.102
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BA 9s base fitting LED, included	~ 400 - 50/60 Hz	White	ZB5 AV5D1	0.102
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BA 9s base fitting LED, included	~ 400 - 50/60 Hz	Green	ZB5 AV5D3	0.102
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BA 9s base fitting LED, included	~ 400 - 50/60 Hz	Red	ZB5 AV5D4	0.102
----------------------------------	------------------	-----	-----------	-------

BA 9s base fitting LED, included	~ 400 - 50/60 Hz	Orange	ZB5 AV5D5	0.102
----------------------------------	------------------	--------	-----------	-------

BA 9s base fitting LED, included	~ 400 - 50/60 Hz	Blue	ZB5 AV5D6	0.102
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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	

Direct supply				
BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	ZB5 AV156	0.021	

(1) Bulb to be ordered separately, see page 1/186.				
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Other versions	Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 1/166.			
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ZB5 AV6



ZB5 AV3



ZB5 AV156

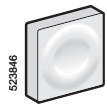
1



ZBA ●



ZBL ●



ZBC 1

## Pushbutton caps - unmarked



For use with	Type of push	Colour	Sold in lots of	Unit reference	Weight kg
ZB5 AA0 circular pushbutton heads supplied without cap	Flush	White	10	ZBA 1	0.001
		Black	10	ZBA 2	0.001
		Green	10	ZBA 3	0.001
		Red	10	ZBA 4	0.001
		Yellow	10	ZBA 5	0.001
		Blue	10	ZBA 6	0.001
		6 colours (1)	1	ZBA 9	0.006
	Projecting	White	10	ZBL 1	0.001
		Black	10	ZBL 2	0.001
		Green	10	ZBL 3	0.001
		Red	10	ZBL 4	0.001
		Yellow	10	ZBL 5	0.001
		Blue	10	ZBL 6	0.001
		6 colours (1)	1	ZBL 9	0.006
ZB5 CA0 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.



ZBA ● 33

## Pushbutton caps - marked

For use with	Type of push	Marking Text	Colour	Colour of cap	Unit reference	Weight kg
ZB5 AA0 circular pushbutton heads supplied without cap (sold in lots of 10)	Flush	I (1)	White	Green	ZBA 331	0.001
			Black	White	ZBA 131	0.001
		II	White	Green	ZBA 336	0.001
			Black	White	ZBA 136	0.001
		III	White	Green	ZBA 337	0.001
			Black	White	ZBA 137	0.001
		IV	White	Green	ZBA 338	0.001
			Black	White	ZBL 138	0.001
START (1)			White	Green	ZBA 333	0.001
			Black	White	ZBA 133	0.001
ON			White	Green	ZBA 341	0.001
			Black	White	ZBA 141	0.001
MARCHE			White	Green	ZBA 342	0.001
			Black	White	ZBA 142	0.001
UP (1)			Black	White	ZBA 343	0.001
DOWN (1)			White	Black	ZBA 344	0.001
 (1)			White	Black	ZBA 245	0.001
			Black	White	ZBA 145	0.001
↑ (2)			White	Black	ZBA 335	0.001
			Black	White	ZBA 334	0.001
O (1)			White	Red	ZBA 432	0.001
				Black	ZBA 232	0.001
ARRET			White	Red	ZBA 433	0.001
				Black	ZBA 233	0.001
STOP (1)			White	Red	ZBA 434	0.001
				Black	ZBA 234	0.001
OFF			White	Red	ZBA 435	0.001
				Black	ZBA 235	0.001
			White	Green	ZBA 346	0.001
R (1)			White	Blue	ZBA 639	0.001
+			White	Black	ZBA 2934	0.001
-			White	Black	ZBA 2935	0.001

(1) Double injection moulded marking.

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

1



ZBP 0

**Transparent boots for pushbuttons (1)**

Description	For use with pushbutton types	Sold in lots of	Unit reference	Weight kg
Single boots (2)	Flush with circular head	10	ZBP A	0.002
	Projecting with circular head and push-push version	10	ZBP 0	0.002
	Flush or projecting with circular head for food industry applications	10	ZBP 0A	0.002

**Coloured boots**

Description	Colour	For use with	Sold in lots of	Unit reference	Weight kg
Coloured boots (can be replaced without dismantling the head)	White	ZB5 AP1S	10	ZBP 011	0.003
	Black	ZB5 AP2S	10	ZBP 012	0.003
	Green	ZB5 AP3S	10	ZBP 013	0.003
	Red	ZB5 AP4S	10	ZBP 014	0.003
	Yellow	ZB5 AP5S	10	ZBP 015	0.003
	Blue	ZB5 AP6S	10	ZBP 016	0.003
Clear membrane	Transparent	ZB5 AP●83	10	ZBP 017 ▲	0.003

(1) Boots for multiple-headed pushbuttons: see page 1/145.

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

▲ Available: 1st quarter 2011.

DF540779



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	0.002
	Green	10	ZBW 913	0.002
	Red	10	ZBW 914	0.002
	Orange	10	ZBW 915	0.002
	Blue	10	ZBW 916	0.002
	Clear	10	ZBW 917	0.002
Illuminated pushbuttons, with projecting push	White	10	ZBW 931	0.002
	Green	10	ZBW 933	0.002
	Red	10	ZBW 934	0.002
	Orange	10	ZBW 935	0.002
	Blue	10	ZBW 936	0.002
	Clear	10	ZBW 937	0.002

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

DF540780



ZBV 01●

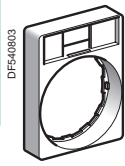


## Control and signalling units Ø 22

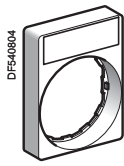
Harmony® XB5 plastic

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

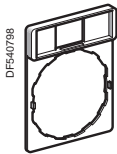
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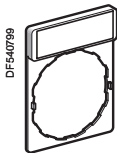
ZBZ 34



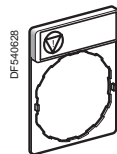
ZBY ●H101



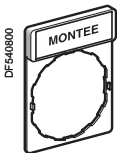
ZBZ 32



ZBY ●101



ZBY 4140



ZBY 2107

30 x 40 mm legend holders (flush mounting with bezel) for 8 x 27 mm legends <sup>(1)</sup>

Description	Legend	Marking	Sold in lots of	Unit reference	Weight kg
Without legend	Colour				
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

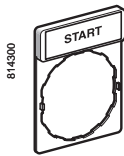
Standard (30 x 40 mm) legend holders for 8 x 27 mm legends <sup>(1)</sup>

Description	Legend	Marking	Sold in lots of	Unit reference	Weight kg		
Without legend	Colour						
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		
			Yellow background	⊕	1	ZBY 4140 (3)	0.002
		With 8 x 27 mm legend (with French language marking)	Black or red background (2)	ARRET (red backgr.)	1	ZBY 2104	0.002
				ARRET (black backgr.)	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 backgr.)	1			ZBY 2134	0.002		
DEFAUT (red backgr.)	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				
	Red background	ARRET D'URGENCE	1	ZBY 2130 (3)	0.002		

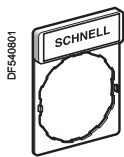
(1) For legends, see pages 1/180 to 1/182.

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

(3) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo ⊕ has been added.



ZBY 2303



ZBY 2228

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

Description	Legend Colour	Marking	Reference	Weight kg		
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		
			Red background	EMERGENCY STOP	ZBY 2330 (2)	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		
		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		
			Red background	NOT-HALT	ZBY 2229 (2)	0.002
			Yellow background	NOT-HALT	ZBY 22420001 (2)	0.002

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

(2) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

# Control and signalling units Ø 22

## Harmony® XB5 plastic

### Legends 8 x 27 mm

1

DF540805



ZBY 02178

DF540629



ZBY 0140

DF540806



ZBY 0104

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

Colour	Marking	Reference	Weight kg
Without	White or yellow	O (black background)	ZBY 0102 0.001
International	Black or red (1)	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
			Yellow
French	Black or red (1)	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		
	Red	ARRET D'URGENCE	ZBY 02130 (2) 0.001

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

(2) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

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

Colour	Marking	Reference	Weight kg		
English	Black or red (1)	AUTO-HAND	ZBY 02364	0.001	
		AUTO-O-HAND	ZBY 02385	0.001	
		CLOSE	ZBY 02314	0.001	
		DOWN	ZBY 02308	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	
		Red	EMERGENCY STOP	ZBY 02330 (2)	0.001
		German	Black or red (1)	AB	ZBY 02208
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	
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	
Red	NOT-HALT			ZBY 02229 (2)	0.001
Yellow	NOT-HALT			ZBY 022420001 (2)	0.001

START

ZBY 02303

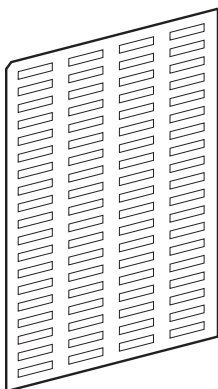
DF540807

SCHNELL

ZBY 02228

DF540808

814309



ZBY 4100

**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

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

(2) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

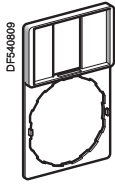
## Control and signalling units Ø 22

Harmony® XB5 plastic

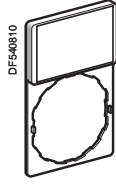
Legend holders for 18 x 27 mm legends

18 x 27 mm legends for engraving or printing

1



ZBZ 33



ZBY 610●

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

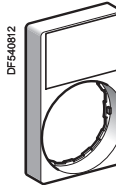
Description	Colour of background	Sold in lots of	Unit reference	Weight kg
Without legend	–	10	ZBZ 33	0.001
With blank legend	Black or red	10	ZBY 6101	0.002
	White or yellow	10	ZBY 6102	0.002
	Yellow	10	ZBY 6140 (1)	0.002

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

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



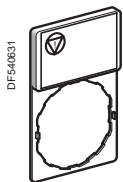
ZBZ 35



ZBY 6H10●

## 18 x 27 mm legends for engraving (for 30 x 50 mm legend-holders)

Description mm	Language	Marking	Sold in lots of	Unit reference	Weight kg
Black or red background	–	Without	10	ZBY 0501	0.001
White or yellow background	–	Without	10	ZBY 0502	0.001
Yellow background	International		10	ZBY 5140 (1)	0.001
	French	ARRET D'URGENCE	10	ZBY 55130 (1)	0.001
	English	EMERGENCY STOP	10	ZBY 55330 (1)	0.001



ZBY 6140

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

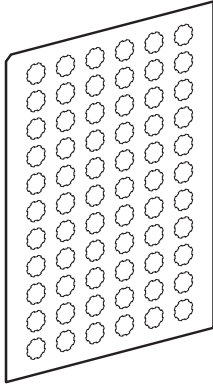
Description	For use with	Sold in lots of	Unit reference	Weight kg
Sheet of 40 18 x 27 mm legends	30 x 50 mm legend holder ZBZ 33 and ZBZ 35	10	ZBY 5100	0.044

(1) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

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

Description	Language	Marking	Sold in lots of	Unit reference	Weight kg
Sheets of 66 circular peel-off, transparent, self-adhesive legends	–	Without	10	ZBY 1101	0.017
Strips of 66 circular peel-off, transparent, self-adhesive legends	International	O	10	ZBY 1146	0.017
		I	10	ZBY 1147	0.017
		II	10	ZBY 1148	0.017
		III	10	ZBY 1149	0.017
		STOP	10	ZBY 1304	0.017
		↑	10	ZBY 1912	0.017
	French	ARRET	10	ZBY 1104	0.017
		ARRIERE	10	ZBY 1106	0.017
		AUTO	10	ZBY 1115	0.017
		AVANT	10	ZBY 1105	0.017
		DESCENTE	10	ZBY 1108	0.017
		MAIN	10	ZBY 1116	0.017
		MARCHE	10	ZBY 1103	0.017
	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	

DF540813



ZBY 1101

DF540548



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, ZBY 0102, ZBY 5101, ZBY 5102, ZBY 4100 and ZBY 5100	ZBY 2U	0.100

## Circular yellow legends for mushroom head pushbuttons

Used for "Emergency stop" function (1)

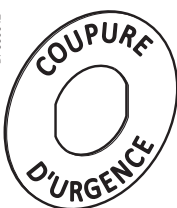
Diameter mm	Conforming to standards	Marking on yellow background	Reference	Weight kg
60	EN/IEC 60204-1 and EN/ISO 13850	–	ZBY 9140	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		NOT-HALT	ZBY 9230	0.004
		PARADA DE EMERGENCIA	ZBY 9430	0.004
		ARRESTO DE EMERGENZA	ZBY 9630	0.004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

DF538640



ZBY 9130

DF539642



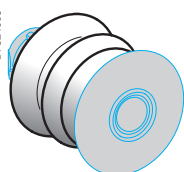
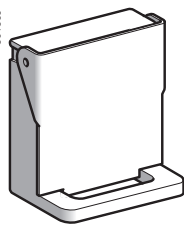
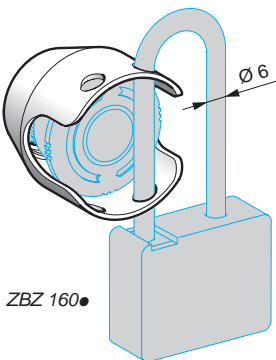
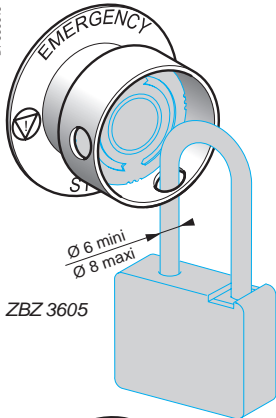
ZBY 9160

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

(1) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo (M) has been added.

1



#### Accessories for mushroom head pushbuttons

Description	For use with	Colour	Reference	Weight kg
<b>Padlocking kit</b> (1) (2) (padlockable)	Emergency stop (3) and Emergency switching off function (4), 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 (3)	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 (4)	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 (2)	Emergency stop function only with the following Ø 40 trigger action pushbuttons: XB5 AT8●, XB5 AS8●, XB5 AS9●, ZB5 AT8●, ZB5 AS8●, ZB5 AS9●.	Chromium plated	<b>ZBZ 1600</b>	0.046
		Black	<b>ZBZ 1602</b>	0.046
		Red	<b>ZBZ 1604</b>	0.046
		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
			Yellow	2	<b>ZBZ 58</b>	0.009

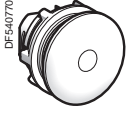
(1) Standard circular legends are not compatible with this product. Use special legends **ZBY 9●●●T**.

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

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

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

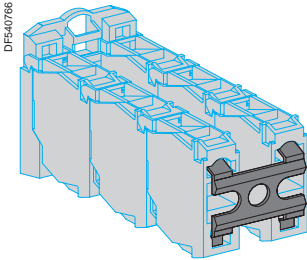
(5) Only when mounted on control stations. Use legends **ZBY 9●●●T**.



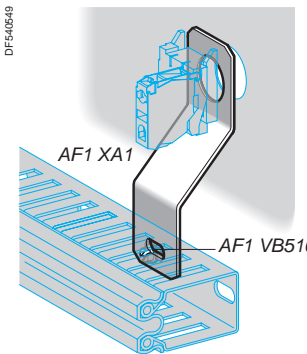
ZB5 SZ3



ZB4 BZ007



ZBZ 007



#### Other accessories (continued)

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Plastic square blanking plug (with fixing nut)	Ø 22 mm control and signalling units	Black	10	ZB5 SZ5	0.009
Plastic circular blanking plug (with fixing nut)	Ø 22 mm control and signalling units	Black	10	ZB5 SZ3	0.009
Liquid spray protective washer to be fitted in the head	Ø 22 mm control and signalling units	Chromium plated	50	ZB4 BZ007	0.010
		Black	50	ZB4 BZ0077	0.010
Plastic clips	2 or 3 levels of contact blocks ZBE 10● in high vibration environment	–	10	ZBZ 007	–
Dummy contact block	Contact blocks ZBE 10● and transformer blocks ZBV 5B	–	5	ZBE 000	–
Description	Application		Sold in lots of	Unit reference	Weight kg
Cable ducting support	Fixing beneath head		10	AF1 XA1	0.030
M5 x 10 screw, with hexagonal slotted head	For fixing cable ducting		100	AF1 VB510	0.003
Support	For XB5 A pushbuttons, switches and pilot lights		1	DX1 AP52	0.160



1

DF540771



DL1 C.J0●●●

DF540772



DL1 CE●●●

DF540773



DL1 CF●●●

DF540774



XBF X13

DF540788



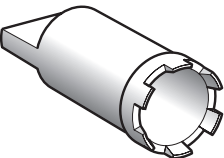
ZBZ 8

107367



ZBZ AZ31

DF540815



ZB5 AZ905

DF540814



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
Add-on square trim	Gives a square appearance to ZB5 A circular heads	Black	10	ZB5 AZ31	0.002
		Green	10	ZB5 AZ1715626002	0.002
		Red	10	ZB5 AZ1715626001	0.002
		Blue	10	ZB5 AZ1715626003	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



ZBG 455



ZBD LU1



ZBG 455P



ZBG P

## 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
	Specific key	ZBG K (1)	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 (2)

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

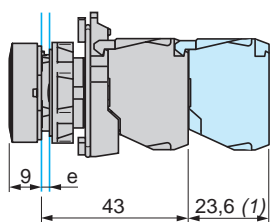
(1) Key number to be added when ordering.

(2) Not compatible with products with key TEC10.

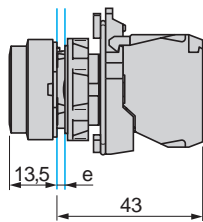
1

### Pushbuttons, spring return

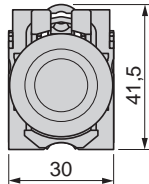
XB5 AA●●



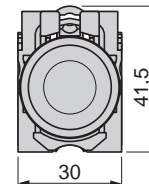
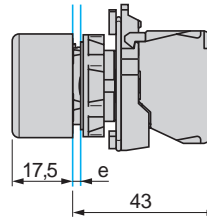
XB5 AL●●



Common face view



XB5 AP●●

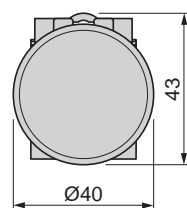
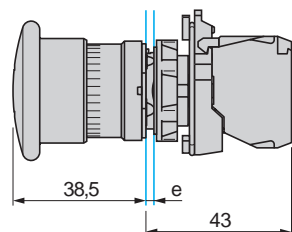


e: clamping thickness: 1 to 6 mm  
(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

### Mushroom head pushbuttons, spring return

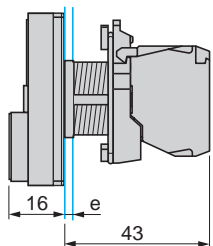
XB5 AC21



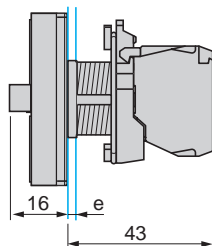
e: clamping thickness: 1 to 6 mm

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

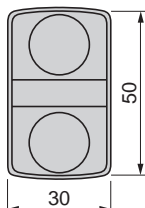
XB5 AL73415, XB5 AW73731●5



XB5 AA731327, XB5 AA711237



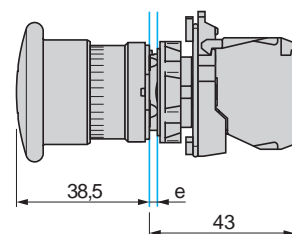
Common face view



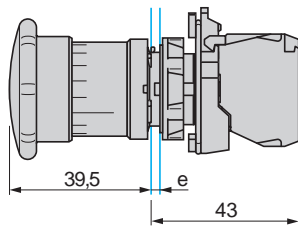
e: clamping thickness: 1 to 6 mm

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

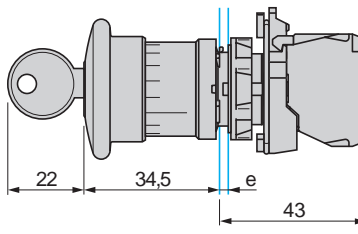
XB5 AT845



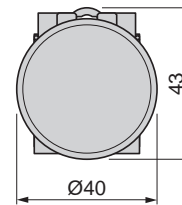
XB5 AS8445



XB5 AS9445



Common face view

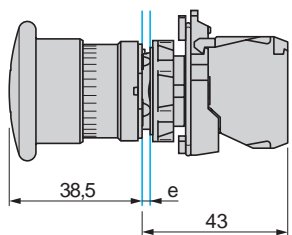


e: clamping thickness: 1 to 6 mm

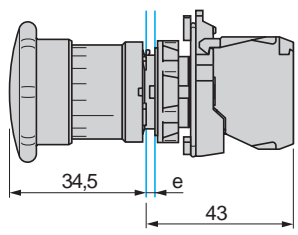
e: clamping thickness: 1 to 6 mm

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

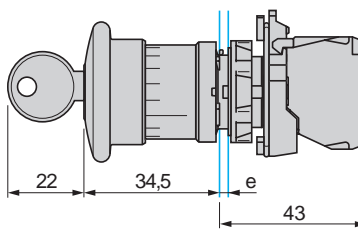
XB5 AT42



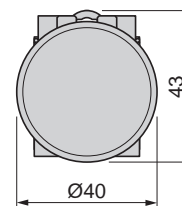
XB5 AS542



XB5 AS142



Common face view



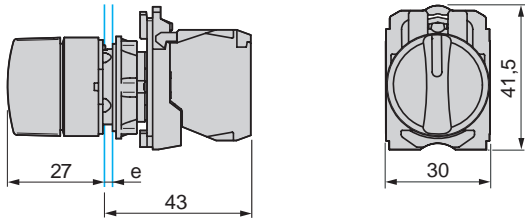
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

**Selector switches**

**Standard handle operator**

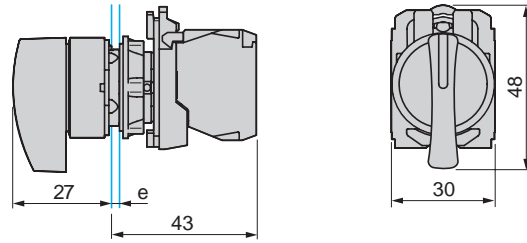
XB5 AD●●



e: clamping thickness: 1 to 6 mm

**Long handle operator**

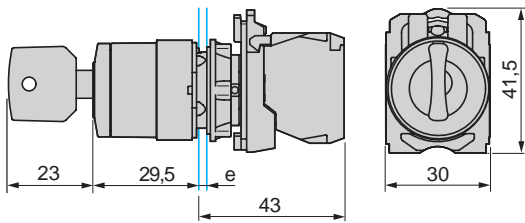
XB5 AJ●●



e: clamping thickness: 1 to 6 mm

**Key switches**

XB5 AG●●



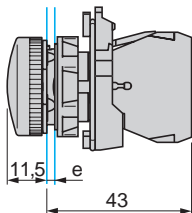
e: clamping thickness: 1 to 6 mm

1

#### Pilot lights with BA9S base fitting

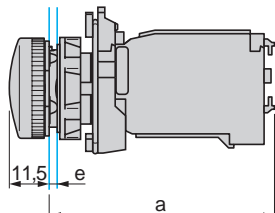
##### Direct supply

XB5 AV6●

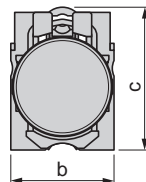


##### Via integral transformer

XB5 AV3●, AV4●, AV5B●



Common face view



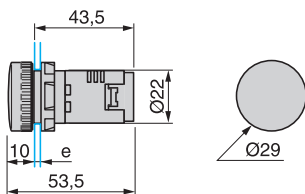
	a	b	c
XB5 AV●●	43	30	41.5
XB5 AV5B●	89.6	40	45

e: clamping thickness: 1 to 6 mm

#### Pilot lights with integral LED

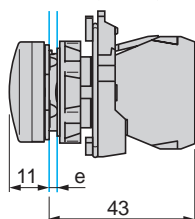
##### Monolithic units

XB5 EV●●



##### Complete units

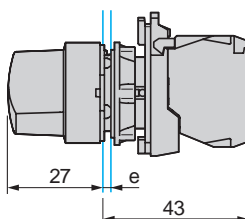
XB5 AVB●, AVG●, AVM●



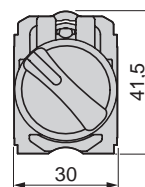
#### Illuminated selector switches

##### Integral LED

XB5 AK12●●5



Common face view



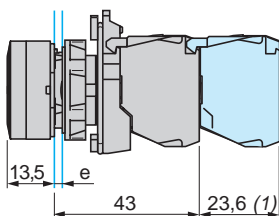
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

#### Illuminated pushbuttons

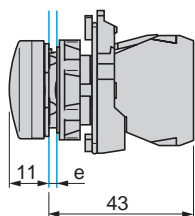
##### Integral LED

XB5 AW3●●5



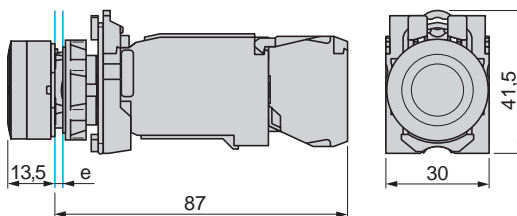
##### Direct supply

XB5 AW3●65



##### Via integral transformer

XB5 AW3●●5



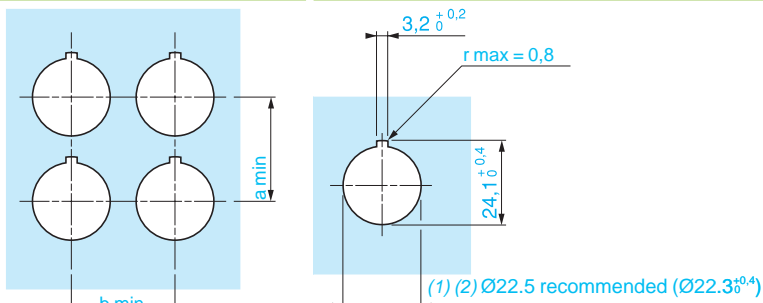
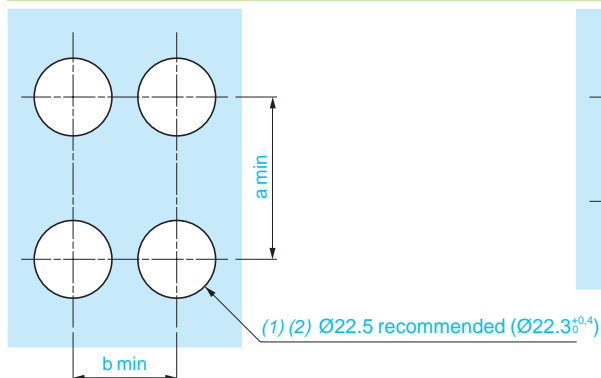
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

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

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

##### Detail of lug recess



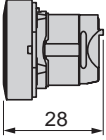
(1) Diameter on finished panel or support.

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended, see page 1/186.

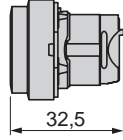
Connections	a	b
By screw clamp terminals or plug-in connector	40	30
By Faston connectors	45	32
On printed circuit board	30	30

**Heads for spring return pushbuttons**

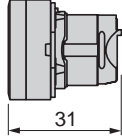
ZB5 AA●, AA●●●,  
ZB5 AA●8



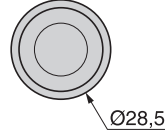
ZB5 AL●,  
ZB5 AL●●●



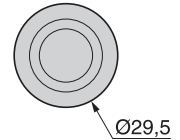
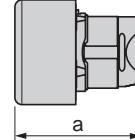
ZB5 AA●4, ZB5 AA●6



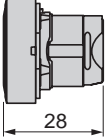
Common face view



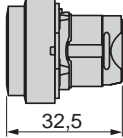
ZB5 AP●●, ZB5 AP●S, ZB5 AP●83, ZB5 AP●



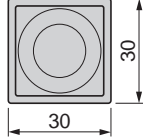
ZB5 CA●, ZB5 CA0



ZB5 CL●



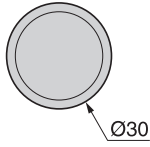
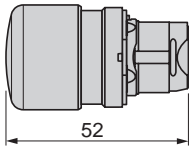
Vue de face commune



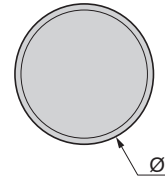
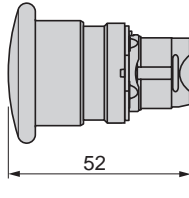
ZB5	a
AP●●	36.5
AP●S	33
AP●83	32
AP●	35

**Mushroom heads for spring return pushbuttons**

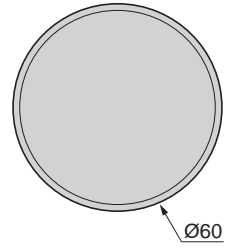
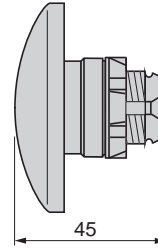
ZB5 AC●4



ZB5 AC●, AR●



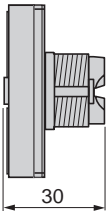
ZB5 AR●16



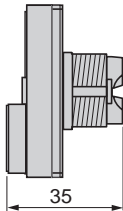
ZB5	Ø
AC●	40
AR●	60

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

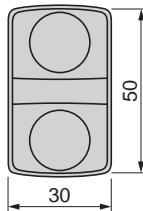
ZB5 AA712●,  
ZB5 AA734●,  
ZB5 AA79



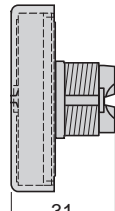
ZB5 AL734●



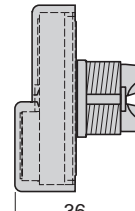
Common face view



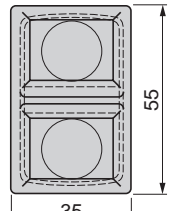
ZB5 AA712●,  
ZB5 AA734●,  
ZB5 AA79,  
+ boot ZBA 708



ZB5 AL734●  
+ boot ZBA 710

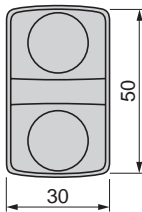
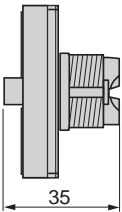


Common face view

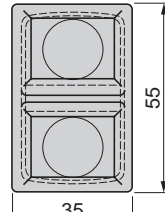
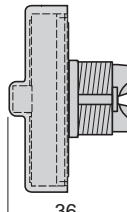


**Heads for triple-headed, spring return pushbuttons**

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

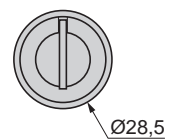
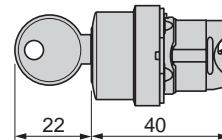


ZB5 AA7313●, ZB5 AA711●●,  
ZB5 AA72124, ZB5 AA791  
+ boot ZBA 709



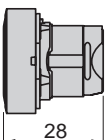
**Heads for lockable, Push-turn pushbuttons**

ZB5 AFD

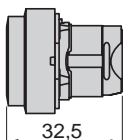


**Heads for Push-push to release pushbuttons**

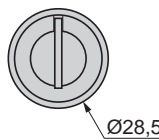
ZB5 AH0●



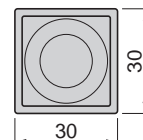
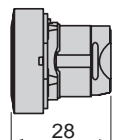
ZB5 AH●



Common face view



ZB5 CH0●

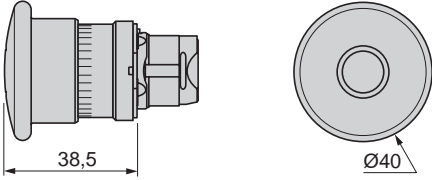


1

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

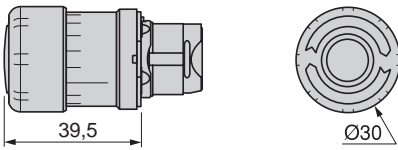
**Push-pull**

ZB5 AT84

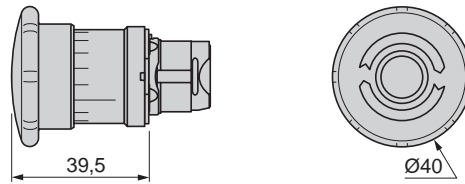


**Turn to release**

ZB5 AS834

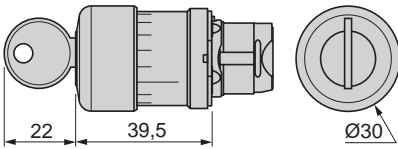


ZB5 AS844

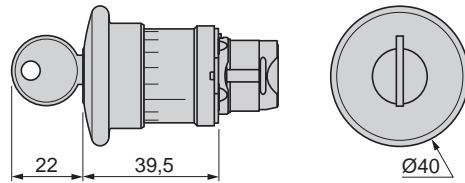


**Key release**

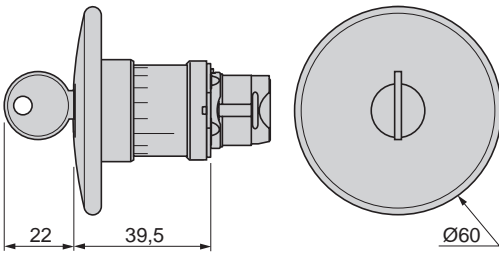
ZB5 AS934



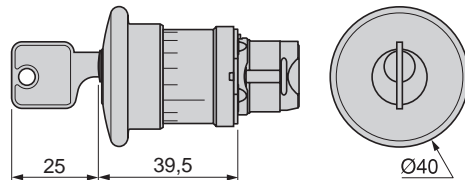
ZB5 AS944



ZB5 AS964



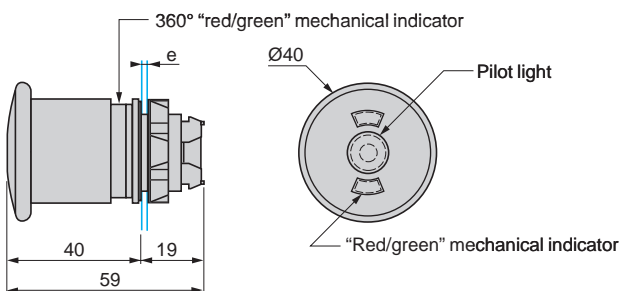
ZB5 AS944D



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

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

ZB5 AT8643M

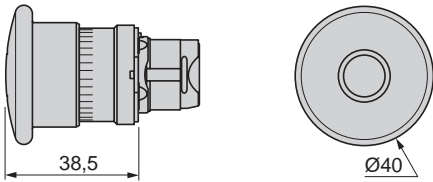


e: panel thickness 1 to 6 mm

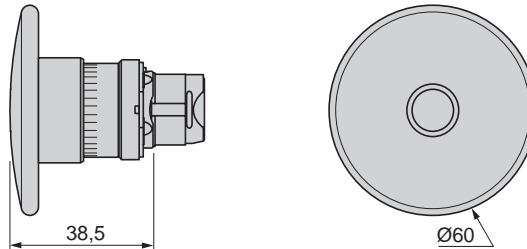
**Mushroom heads for Emergency switching off, mechanical latching pushbuttons**

**Push-pull**

ZB5 AT4

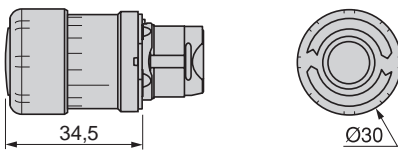


ZB5 AX4

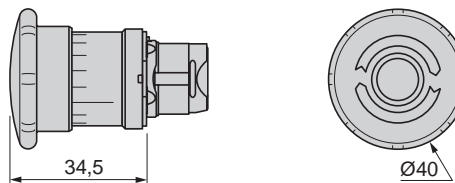


**Turn to release**

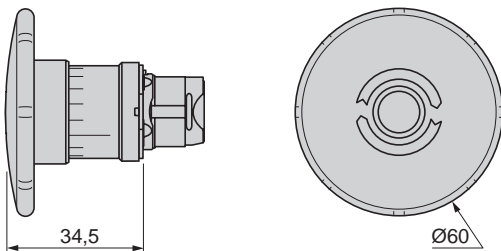
ZB5 AS44



ZB5 AS54

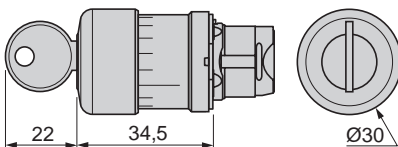


ZB5 AS64

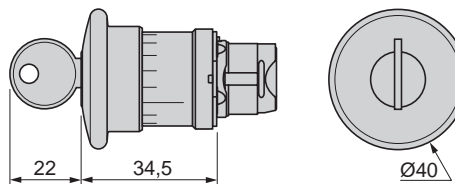


**Key release**

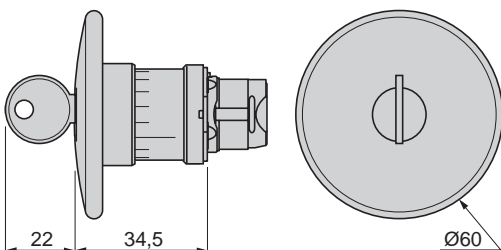
ZB5 AS74



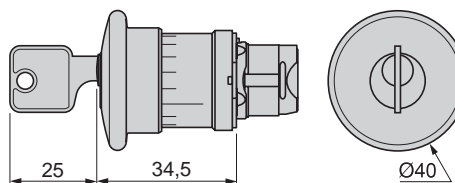
ZB5 AS14



ZB5 AS24



ZB5 AS14D



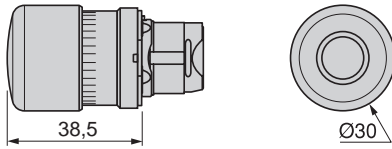


1

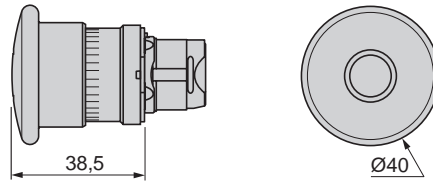
**Mushroom heads for latching pushbuttons (1)**

**Push-pull**

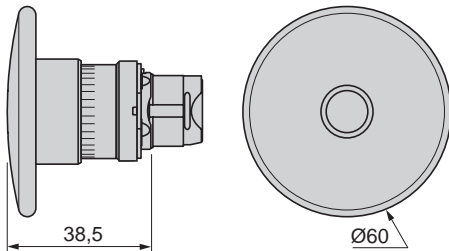
ZB5 AT24



ZB5 AT2

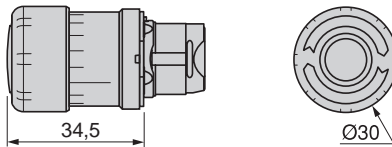


ZB5 AX2

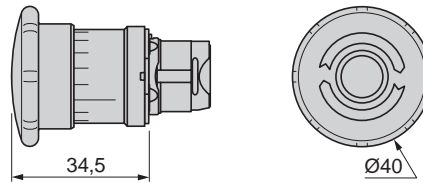


**Turn to release**

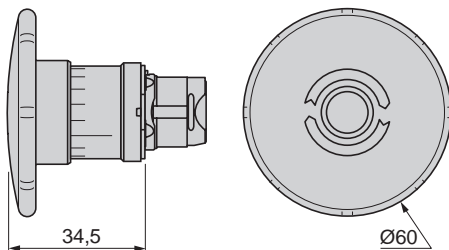
ZB5 AS42



ZB5 AS52, ZB5 AS55

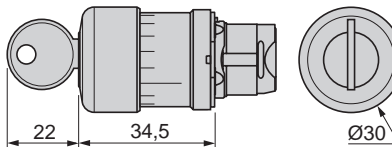


ZB5 AS62

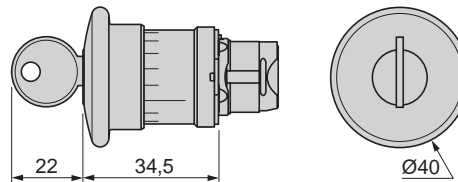


**Key release**

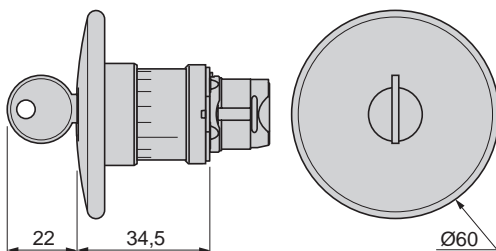
ZB5 AS72



ZB5 AS12



ZB5 AS22



(1) Red mushroom heads for Emergency stop and Emergency switching off, latching pushbuttons: see pages 1/192 and 1/193.

## Heads for selector switches

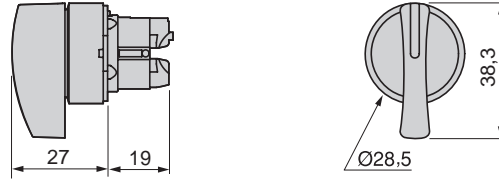
### Standard handle operator

ZB5 AD●, ZB5 AD●M



### Long handle operator

ZB5 AJ●, ZB5 AJ●M



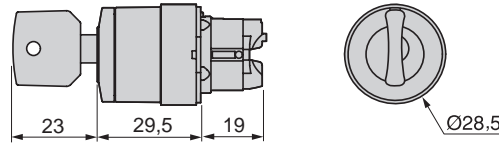
### Black knurled knob

ZB5 AD●9



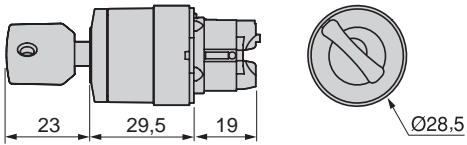
### Key switch (Ronis n° 455)

ZB5 AG●, ZB5 AG0●, ZB5 AG●M



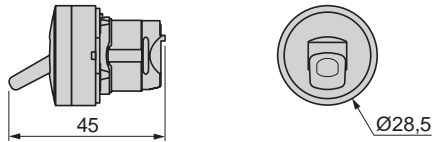
### Key switch (DOM n° 8D1)

ZB5 AGD



## Heads for toggle switches

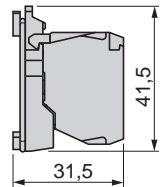
ZB5 AD●8



## Bodies for pushbuttons and switches

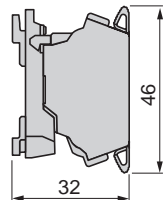
### Screw clamp terminal connections

ZB5 AZ10●, ZB5 AZ141



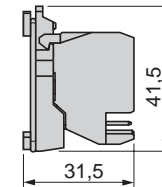
### Spring terminal connections

ZB5 AZ10●5



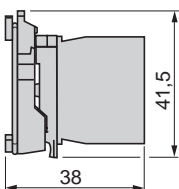
### Plug-in connector

ZB5 AZ10●4, ZB5 AZ1414



### High power switching with screw clamp terminal connections

ZBE 50● block + ZB5 AZ009 body

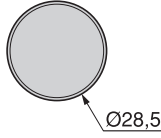
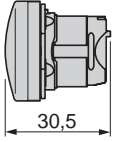


1

**Heads for pilot lights, with light source**

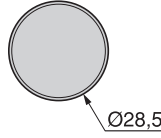
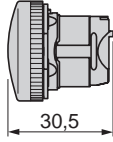
**Integral LED**

ZB5 AV0●3

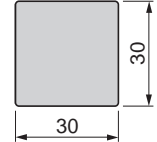
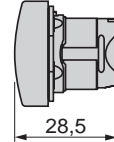


**Incandescent, neon or LED**

ZB5 AV0●, AV0●S



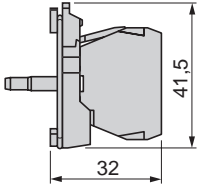
ZB5 CV0●3, CH3●3



**Bodies for pilot lights, screw clamp terminal connections**

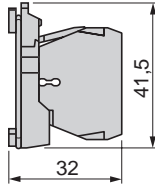
**Integral LED**

ZB5 AV●●



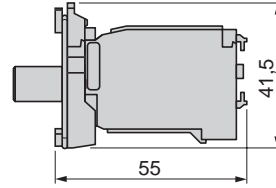
**Direct supply, for BA 9s bulb**

ZB5 AV6



**With integral transformer, for BA9s bulb**

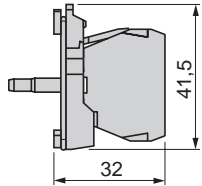
ZB5 AV●, AV●D●



**Light block + body/fixing collar for pilot lights, plug-in connector**

**Integral LED**

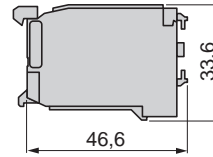
ZBV ●●4 light block + ZB5 AZ009 body/fixing collar



**Transformer blocks**

**For 24 V light blocks with integral LED**

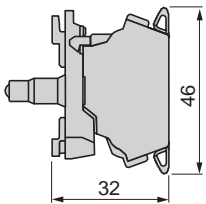
ZBV 5B, ZBV 8B, ZBV 9B



**Light block + body/fixing collar for pilot lights, spring terminal connections**

**Integral LED**

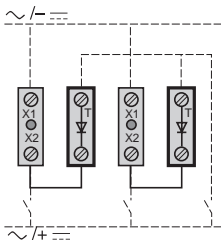
ZBV ●●5 light block + ZB5 AZ009 body/fixing collar



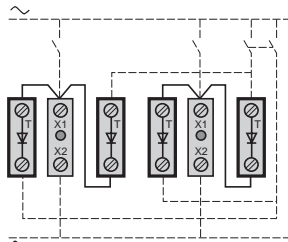
**Blocks for "test light" function**

**Connections**

ZBZ G156



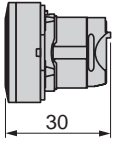
ZBZ M156



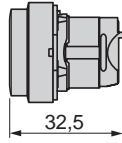
**Heads for spring return illuminated pushbuttons, for light source types:**

**LED**

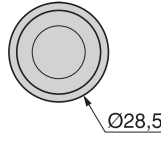
ZB5 AW3●3, AW3●3S,  
ZB5 AA●8



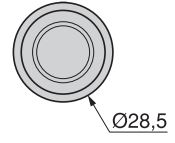
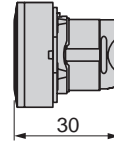
ZB5 AW1●3, ZB5 AW1●3S,  
ZB5 AL●8



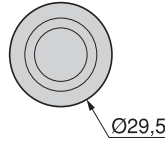
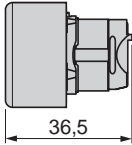
Common face view



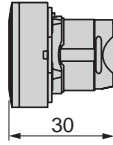
ZB5 AW9●3



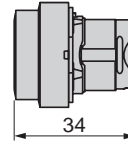
ZB5 AW5●3



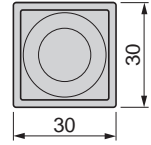
ZB5 CW3●3



ZB5 CW1●3

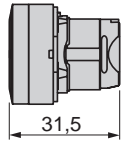


Common face view

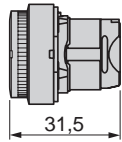


**Bulb with BA9s base fitting**

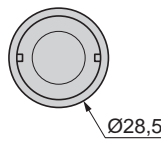
ZB5 AW3●, AW3●S



ZB5 AW1●, ZB5 AW1●S

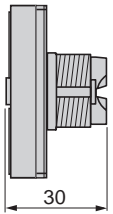


Common face view

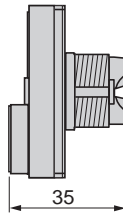


**Heads for double-headed pushbuttons + pilot light**

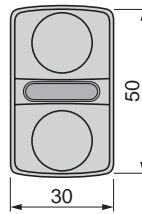
ZB5 AW7A374●, ZB5 AW7A17●●, ZB5 AW7A9



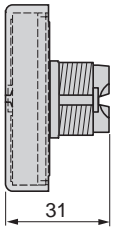
ZB5 AW7L374●



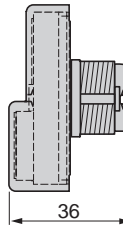
Common face view



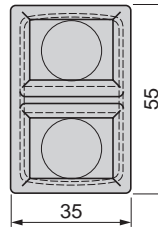
ZB5 AW7A374●, ZB5 AW7A17●●, ZB5 AW7A9  
+ boot ZBA 708



ZB5 AW7L374●  
+ boot ZBA 710

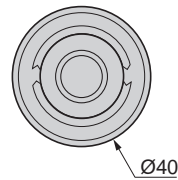
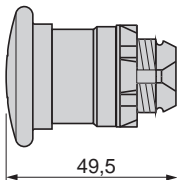


Common face view

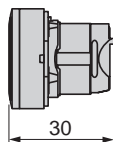


**Heads for illuminated, latching, mushroom head pushbuttons**

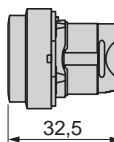
ZB5 AW7●3



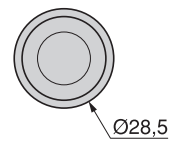
ZB5 AH0●3



ZB5 AH●3

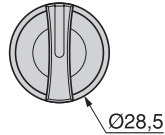
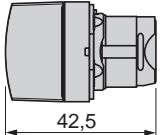


Common face view



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

ZB5 AK1●●●3

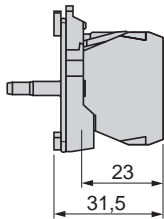


1

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

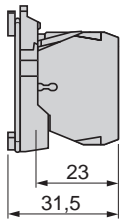
**Integral LED**

ZB5 AW0●●●



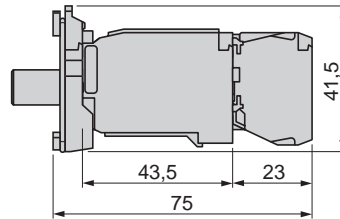
**Direct supply for BA9s bulb**

ZB5 AW06●



**With integral transformer for BA9s bulb**

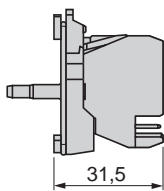
ZB5 AW0●●, ZB5 AW0●D●●



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

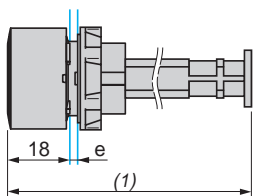
**Integral LED**

ZB5 AW0●●●4

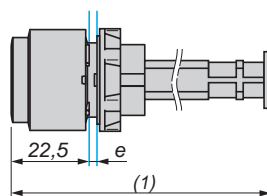


**Manual overload reset buttons**

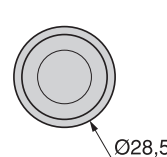
XB5 A8●●●



XB5 AL8●●●



Common face view

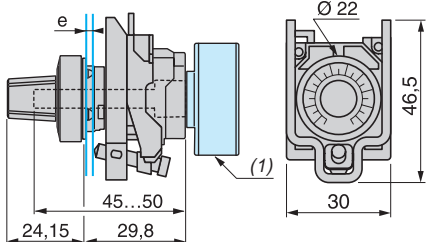


e: panel thickness 1 to 6 mm

(1) Value not yet communicated

**Head + mounting base for potentiometer**

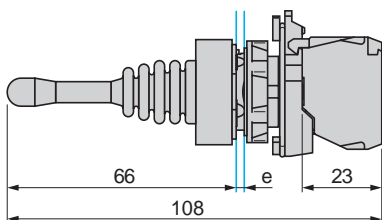
ZB5 AD9●2



(1) Potentiometer not included.

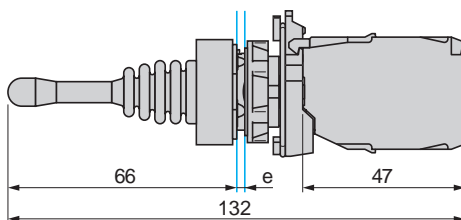
**Joystick controllers**

XD5 PA●2

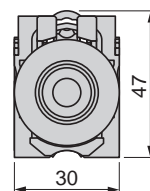


e: panel thickness 1 to 6 mm

XD5 PA●4

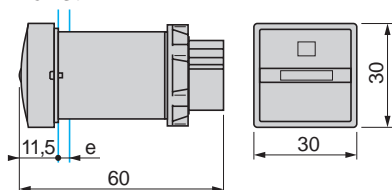


Common face view



**Hour counters**

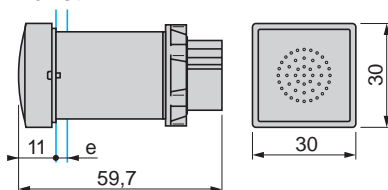
XB5 DS●



e: panel thickness 1 to 6 mm

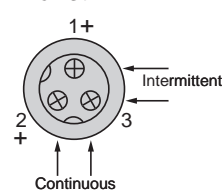
**Annunciators**

XB5 KS●



**Cabling**

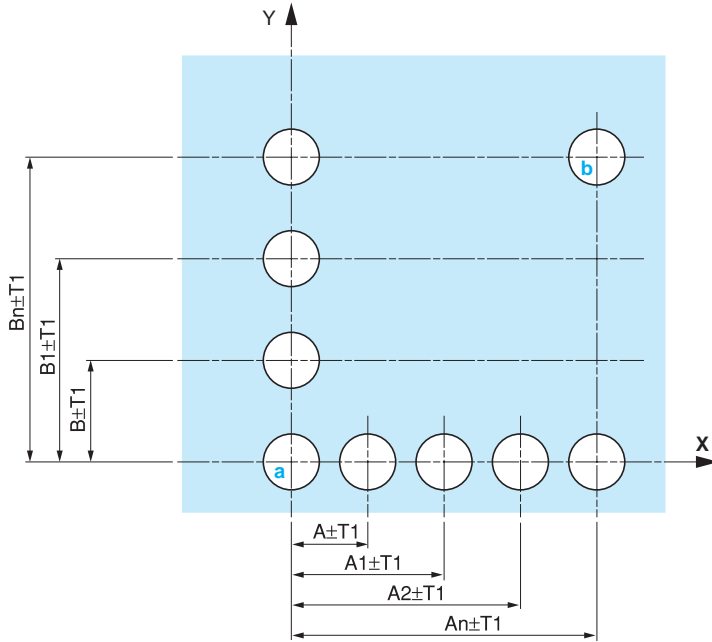
XB5 KS●



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

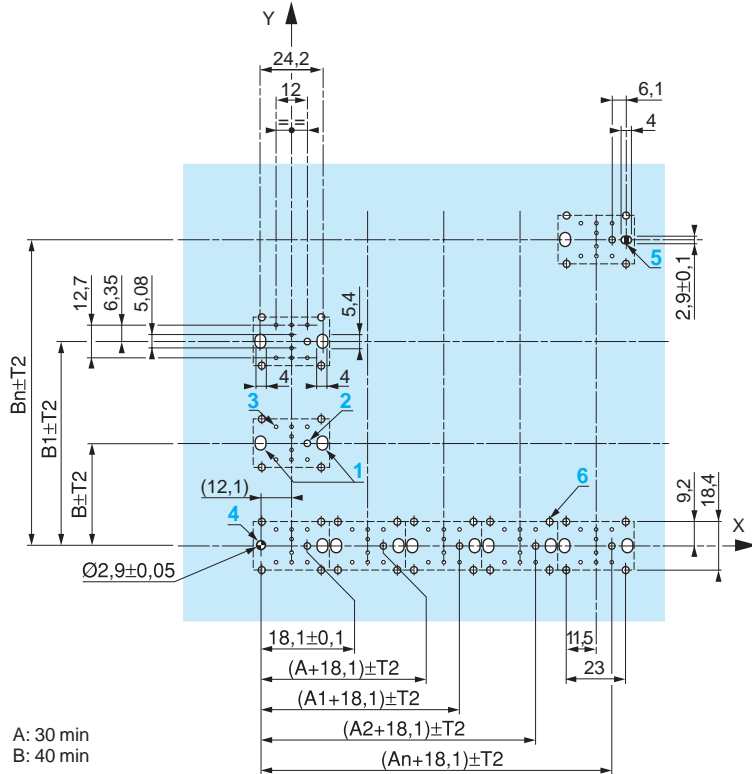
**Panel cut-outs (viewed from installer's side)**

Dimensions in mm



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

Dimensions in mm



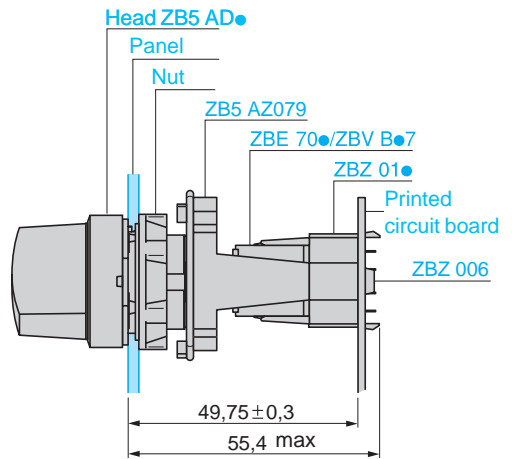
**General tolerances of the panel and printed circuit board**

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●.