

Control and signalling units Ø 22
Harmony[®] XB4, metal
Harmony[®] XB5, plastic

Catalogue
june

06



Simply Smart !

telemecanique.com



This international site allows you to access all the Telemecanique products in just 2 clicks via comprehensive range data-sheets, with direct links to:

- Complete library: technical documents, catalogs, certificates, FAQs, brochures...
- Selection guides from the e-catalog.
- Product discovery sites and their Flash animations.

You will also find illustrated overviews, news to which you can subscribe, a discussion forum, the list of country contacts...

To live automation solutions every day!



Flexibility

- Interchangeable modular functions, to better meet the requirements for extensions
- Software and accessories common to multiple product families



Ingenuity

- Auto-adapts to its environment, "plug & play"
- Application functions, control, communication and diagnostics embedded in the products
- User-friendly operation either directly on the product or remotely



Simplicity

- Cost effective "optimum" offers that make selection easy for most typical applications
- Products that are easy to understand for users, electricians and automation specialists
- User-friendly intuitive programming



Compactness

- High functionality in a minimum of space
- Freedom in implementation



Openness

- Compliance with field bus, connection, and software standards
- Enabling decentralised or remote surveillance via the web with Transparent Ready products

Control and signalling units Ø 22

Harmony® XB4, metal

Harmony® XB5, plastic

		<i>XB4 metal</i>	<i>XB5 plastic</i>
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Control and signalling units Ø 22

Harmony® XB4, metal

Pushbuttons, switches and pilot lights

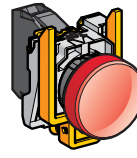
Description

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

Complete units with chromium plated metal bezel, XB4 B

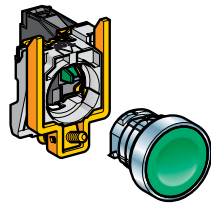


Pushbuttons and switches

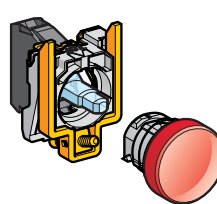


Pilot lights

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

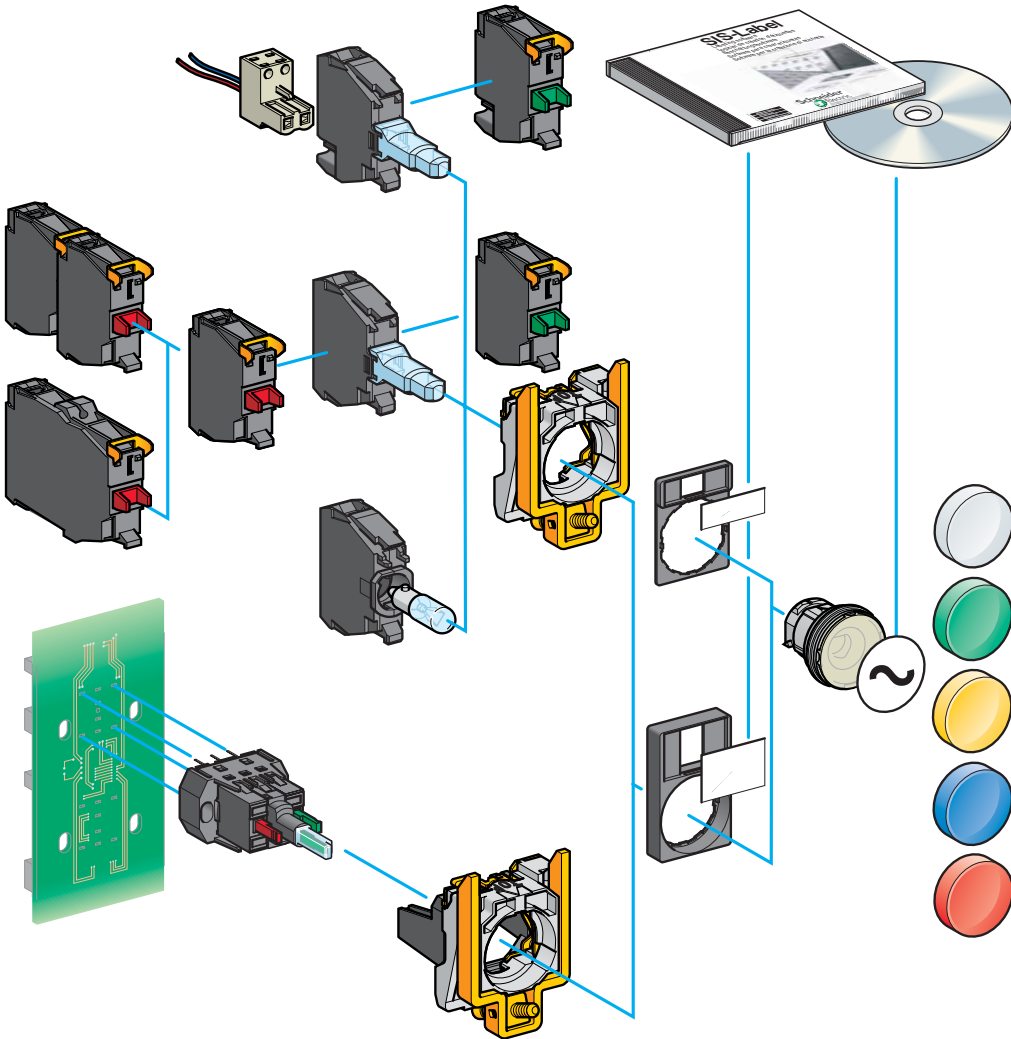


Pushbuttons and switches: body + head sub-assemblies



Pilot lights: body + head sub-assemblies

ZB component parts and accessories



Schematic library

Contact functions (pushbuttons and Emergency stop pushbuttons)

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

Contact functions (selector switches)

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

Signalling functions

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

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

Illuminated pushbutton, BA 9s incandescent bulb N/O+N/C contacts	Illuminated pushbutton LED - N/O+ N/C contacts	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
Double-headed pushbutton with LED pilot light	Illuminated selector switch with LED, 2-position stay put N/O + N/C contacts	

Joystick controller functions

2 direction	4 direction
Without spring return	Without spring return
With spring return	With spring return

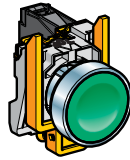
Control and signalling units Ø 22

Harmony® XB4, metal
Pushbuttons, switches and pilot lights:
complete units, XB4 B

Complete units

Contact functions

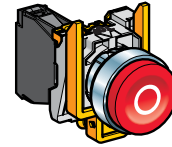
Pushbuttons, spring return, with chromium plated metal bezel



Flush push, unmarked
XB4 BA●1/BA42
see page 16



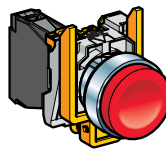
Flush push, with marking
XB4 BA3311
see page 18



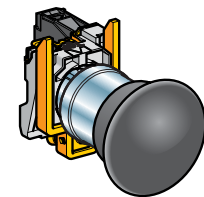
Projecting push, with marking
XB4 BL4322
see page 18



Booted flush push
XB4 BP●1/BP42
see page 17



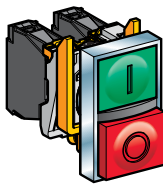
Projecting push, unmarked
XB4 BL42
see page 17



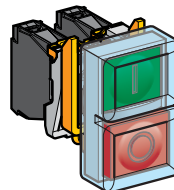
Mushroom head
XB4 BC21
see page 24

Ø 40

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

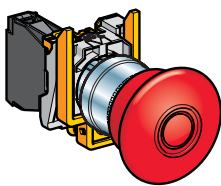


Flush push + projecting push
XB4 BL845
see page 23



Booted flush push + projecting push
XB4 BL945
see page 23

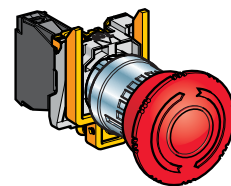
Emergency stop mushroom head pushbuttons, Ø 40, with chromium plated metal bezel
■ trigger action and mechanical latching
or
■ mechanical latching only



Ø 40

Push-pull (EN 418/ISO 13850)
XB4 BT845
see page 26

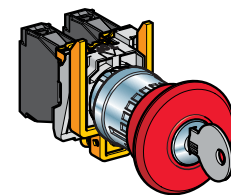
Push-pull
XB4 BT42
see page 27



Ø 40

Turn to release (EN 418/ISO 13850)
XB4 BS844●
see page 26

Turn to release
XB4 BS542
see page 27

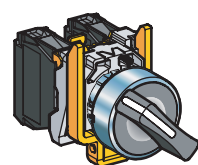


Ø 40

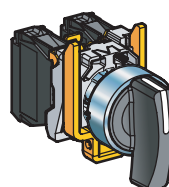
Key release (EN 418/ISO 13850)
XB4 BS9445
see page 26

Key release
XB4 BS142
see page 27

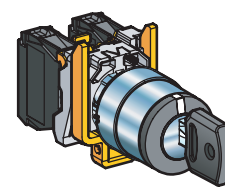
Selector switches and key switches, with chromium plated metal bezel



Standard handle, black
XB4 BD●●
see page 30



Long handle, black
XB4 BJ●●
see page 34

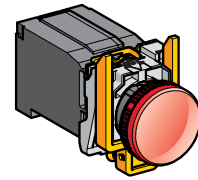
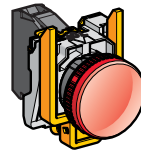
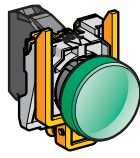


Key switch
XB4 BG●●
see page 35

Complete units

Signalling functions

Pilot lights



Integral LED

XB4 BV3●/BV4●
see page 36

For bulb with BA 9s base fitting
Direct supply

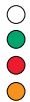
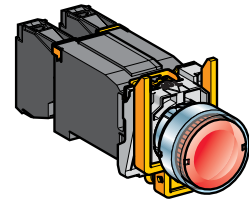
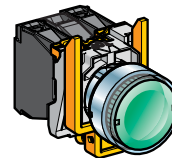
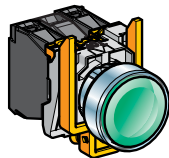
XB4 BV6●
see page 37

Via integral transformer with secondary

XB4 BV3●/BV4●
see page 37

Combined functions (contact + signalling)

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



Integral LED

XB4 BW3●B5/BW3●G5/BW3●M5
see page 19

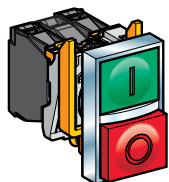
For bulb with BA 9s base fitting
Direct supply

XB4 BW3●G5
see page 21

Via integral transformer

XB4 BW3●G5/BW3●G5
see page 21

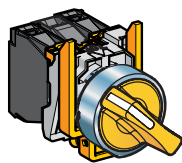
Illuminated double-headed pushbuttons, spring return, chromium plated metal bezel



Integral LED

XB4 BW84●G5
see page 23

Illuminated selector switches with standard handle, chromium plated metal bezel



Integral LED

XB4 BK12●G5, XB4 BK13●G5
see page 32

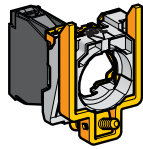
Control and signalling units Ø 22

Harmony® XB4, metal
Pushbuttons, switches and pilot lights:
sub-assemblies, ZB4 B

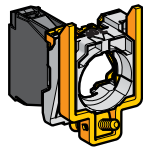
Non illuminated units for user assembly

For pushbuttons, spring return, unmarked

Body sub-assemblies



Screw clamp terminals
ZB4 BZ10/BZ141
see page 40



Faston
ZB4 BZ10/3
see page 41

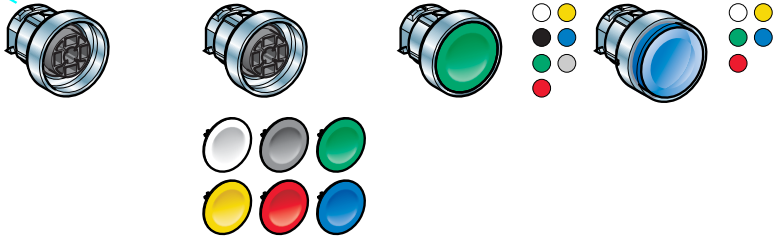
For pushbuttons, spring return, with marking

For double-headed pushbuttons, spring return

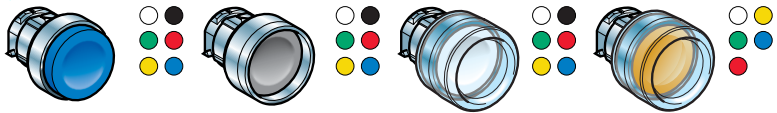
For "push-push to release" pushbuttons

Contact functions

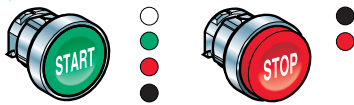
Head sub-assemblies, chromium plated or black metal bezel



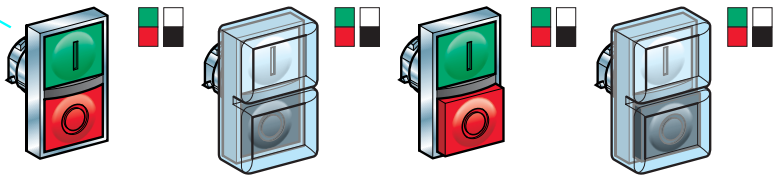
Flush push without cap ZB4 BA0 see page 16	Flush push with set of 6 caps ZB4 BA9 see page 16	Flush push ZB4 BA see page 16	Flush push for insertion of legend ZB4 BA8 see page 16
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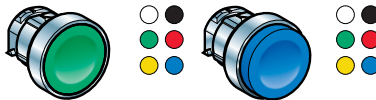
Projecting push ZB4 BL see page 16	Recessed push ZB4 BA6 see page 16	Booted flush/ projecting push ZB4 BP/ BP5 see page 17	Booted flush push for insertion of legend ZB4 BP8 see page 17
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Flush push ZB4 BA3/BA4 ZB4 BA334/335 see page 16	Projecting push ZB4 BL3 see page 18
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Flush pushes (IP 40/IP 66) Unmarked/with marking		Flush push + projecting push (IP 40/IP 66) Unmarked/with marking	
ZB4 BA81 see page 22	ZB4 BA91 see page 22	ZB4 BL83 see page 22	ZB4 BL93 see page 22
ZB4 BA82 see page 23	ZB4 BA92 see page 23	ZB4 BL84 see page 23	ZB4 BL94 see page 23



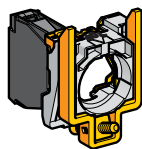
Flush push ZB4 BH0 see page 28	Projecting push ZB4 BH see page 28
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Control and signalling units Ø 22

Harmony® XB4, metal
Pushbuttons, switches and pilot lights:
sub-assemblies, ZB4 B

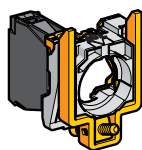
Non illuminated units for user assembly
(continued)

For mushroom head pushbuttons



Screw clamp terminals
ZB4 BZ10/BZ141
see page 40

For mushroom head Emergency Stop pushbuttons
■ trigger action and mechanical latching
or
■ mechanical latching only



Faston
ZB4 BZ10/3
see page 41

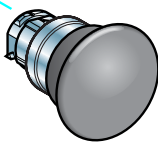
For selector switches and key switches

For toggle switches

Contact functions

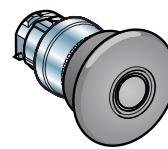
Body sub-assemblies

Head sub-assemblies, chromium plated or black metal bezel



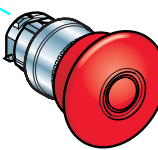
Ø 30
Ø 40
Ø 60

Spring return
ZB4 BC/BR
see page 24



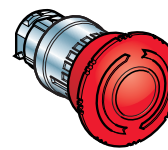
Ø 30
Ø 40
Ø 60

Latching
ZB4 B/2/BS/2/BS55
see page 25



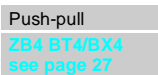
Ø 30
Ø 40
Ø 60

Push-pull (EN 418/ISO 13850)
ZB4 BT84
see page 26

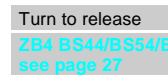


Ø 30
Ø 40
Ø 60

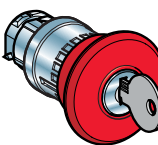
Turn to release (EN 418/ISO 13850)
ZB4 BS84
see page 26



Push-pull
ZB4 BT4/BX4
see page 27



Turn to release
ZB4 BS44/BS54/BS64
see page 27



Ø 30
Ø 40
Ø 60

Key release (EN 418/ISO 13850)
ZB4 BS94
see page 26

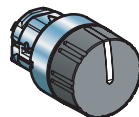
Key release
ZB4 BS74/BS14/BS24
see page 27



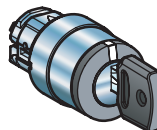
Standard black handle (1)
ZB4 BD
see page 30



Long black handle (1)
ZB4 BJ
see page 34

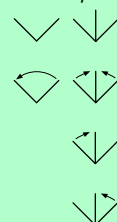


Knurled black knob (1)
ZB4 BD9
see page 31

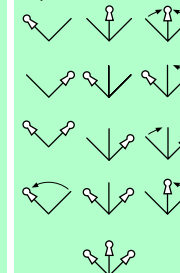


Key switch (2)
ZB4 BG/TEC10
see page 35

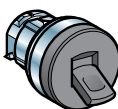
(1) Switch handle and knob positions



(2) Key switch positions
Key withdrawal positions



(3) Lever positions



2-position lever (3)
ZB4 BD8, see page 31

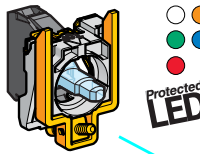
**Pilot lights
for user assembly**

Signalling functions

**Body sub-assemblies
with integral LED**

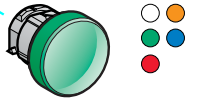


Connection:
screw clamp terminals
ZB4 BVJ/BVB/BVG/
BVM
see page 48

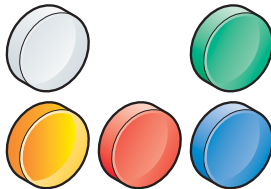
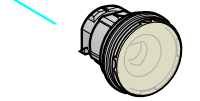


Connection: plug-in
connector
ZB4 BVB•4/BVG•4/
BVM•4
please consult your
Regional Sales Office

Head sub-assemblies

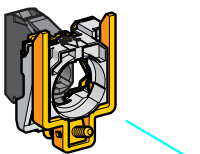


With lens fitted
ZB4 BV0•3
see page 36

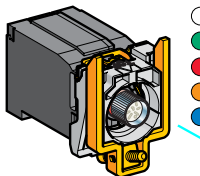


With 5 separate lenses, not fitted
ZB4 BV003
see page 36

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



Direct supply
Connection:
screw clamp terminals
ZB4 BV6
see page 49



Via integral transformer
Connection: screw clamp
terminals
ZB4 BV0•D•
see page 49

Head sub-assemblies



With lens fitted
ZB4 BV0•, ZB4 BV0•S
see page 37

Control and signalling units Ø 22

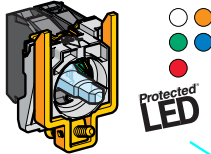
Harmony® XB4, metal
Pushbuttons, switches and pilot lights:
sub-assemblies, ZB4 B

Illuminated pushbuttons for user assembly

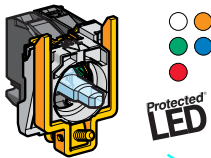
For illuminated pushbuttons, spring return

Combined functions (contact + signalling)

Body sub-assemblies with integral LED



Screw clamp terminals
ZB4 BW0B/BW0G/
BW0M see pages 44
and 45



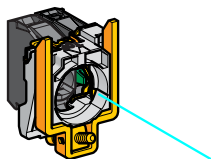
Plug-in connector
ZB4 BW0B4
please consult your
Regional Sales Office

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

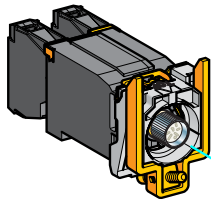
For illuminated "push-push to release" pushbuttons and illuminated selector switches with standard handle

For illuminated pushbuttons, spring return

Body sub-assemblies for BA 9s bulb

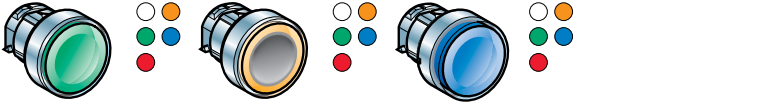


Direct supply
Screw clamp terminals
ZB4 BW06
see page 46

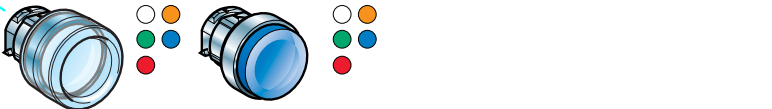


Via integral transformer
Screw clamp terminals
ZB4 BW0D5
see page 46

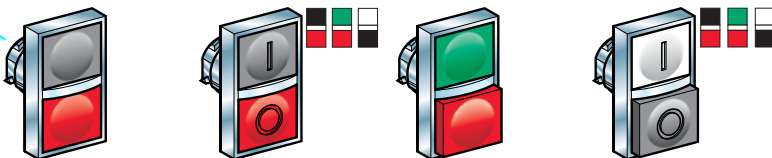
Head sub-assemblies, chromium plated or black metal bezel



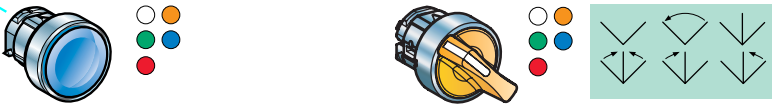
Flush push ZB4 BW33 see page 20	Flush push with illuminated ring ZB4 BW93 see page 20	Flush push for insertion of legend ZB4 BA8 see page 20
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Booted flush push ZB4 BW53 see page 20	Projecting push ZB4 BW13, ZB4 BW13S see page 20
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Flush push Unmarked/with marking ZB4 BW813 see page 22	Flush push Unmarked/with marking ZB4 BW823 see page 23	Flush push + projecting push Unmarked/with marking ZB4 BW833 see page 22	Flush push + projecting push Unmarked/with marking ZB4 BW843 see page 23
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Flush or projecting "push-push to release" ZB4 BH03/BH3 see page 29	Selector switches with standard handle ZB4 BK13 see page 33
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Environment

Protective treatment standard version			"TH"
Ambient air temperature around the device	Storage	°C	- 40... + 70
	Operation	°C	- 25... + 70: LED and neon bulb versions - 25... + 55: incandescent bulb version
Electric shock protection	Conforming to IEC 60536		Class I
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switch)
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
Resistance to high pressure washer		Pa	70 x 10 ⁵ (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			IEC/EN 60947-1, IEC/EN 60947-5-1, IEC/EN 60947-5-4, IEC/EN 60947-5-5, EN 418/ISO 13850 (trigger action Emergency stops and mechanical latching pushbuttons, see page 26), JIS C 4520, UL 508, CSA C22-2 n° 14
Product certifications	UL Listed, CSA		Standard single contacts with screw clamp terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD4 PA/ZD4 PA: A600; R300 Special contact blocks: □ ZBE 201: A300; Q300 □ ZBE 202: A600; Q600
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300
	BV, RINA, LROS, DNV, GL		Standard single contacts and double contacts with screw clamp terminals:
Terminal referencing	Conforming to EN 50005 and EN 50013		

Characteristics of contact or combined contact and signalling functions (see page 14)

Mechanical characteristics

Contact operation	N/C or N/O		Slow break
Positive operation	Conforming to IEC/EN 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 with N/C + N/O	N	Standard push-pull: 45 Trigger action push-pull: 50
N		Standard turn to release and key release: 40 Standard turn to release and key release, trigger action: 44	

Characteristics of contact or combined contact and signalling functions (continued) (see page 14)

Mechanical characteristics (continued)

Operating torque (to change the electrical state)	Selector switches	N.m	N/O contact: 0.14
	Additional contact only	N.m	N/O contact: 0.05
Mechanical durability (in millions of operating cycles)	Pushbutton	Spring return	5
		Double-headed	1
		Push-push to release	0.5
	Selector switch	Non illuminated	1
		Illuminated	0.5
	Toggle switch		0.5
	Emergency stop pushbutton		0.3 with 3 contacts
	Joystick controller		1
	Standard contact block only		5
	Low power switching contact block only (dust protected)		0.5
Vibration resistance	Conforming to IEC 60068-2-6		Frequency: 2 to 500 Hz: 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27		All functions except mushroom head pushbuttons, spring return: <input type="checkbox"/> half sine wave acceleration 11 ms: 50 gn <input type="checkbox"/> half sine wave acceleration 18 ms: 30 gn Mushroom head pushbutton, spring return <input type="checkbox"/> half sine wave acceleration 11 ms: 10 gn
Electrical characteristics			
Cabling capacity	Conforming to EN60947-1	mm²	Screw clamp terminals Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screw (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (max 1.2 N.m)
Contact material	Silver alloy (Ag / Ni)		Standard single and double blocks with screw clamp terminals Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)		Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection
Short-circuit protection	Conforming to IEC/EN 60947-5-1	A	Standard single and double blocks with screw clamp terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector: 4 (gG cartridge fuse conforming to IEC 60269-1) Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)
Rated thermal current	Conforming to IEC/EN 60947-5-1	A	Standard single and double blocks with screw clamp terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6
Rated insulation voltage	Conforming to EN60947-1	V	Standard single and double blocks with screw clamp terminals: U _i = 600, degree of pollution 3 Blocks for plug-in connector or Faston connectors: U _i = 250, degree of pollution 3 Standard blocks for printed circuit board connection: U _i = 250, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN60947-1	kV	Standard single and double blocks with screw clamp terminals: U _{imp} = 6 Blocks for plug-in connector: U _{imp} = 4 Standard blocks for printed circuit board connection: U _{imp} = 4

Characteristics of contact or combined contact and signalling functions (continued) (see page 14)

Electrical characteristics (continued)

Rated operational characteristics

Conforming to IEC/EN 60947-5-1

<p>a.c. supply: utilisation category AC-15</p>	<p>Standard single and double blocks with screw clamp terminals: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A</p> <p>Blocks for plug-in connector: A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A</p> <p>Standard blocks for printed circuit board connection: B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A</p> <p>Special contact blocks: <input type="checkbox"/> ZBE 201: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V) <input type="checkbox"/> 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</p>			
	<p>d.c. supply: utilisation category DC-13</p> <p>Standard single and double blocks with screw clamp terminals: Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A</p> <p>Joystick controllers XD4 PA/ZD4 PA: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p>Blocks for plug-in connector: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p>Standard blocks for printed circuit board connection: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p>Special contact blocks: <input type="checkbox"/> ZBE 201: Q300: Ue = 125 V and Ie = 0.55 A or Ue = 250 V and Ie = 0.27 A <input type="checkbox"/> 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</p>			
<p>Characteristics of special contact blocks for low power switching</p>	<p>VA</p> <p>A</p> <p>V</p>	<p>P max: 12 I max: 0.1 U max: 24</p>		
<p>Electrical durability Conforming to IEC/EN 60947-5-1 appendix C Operating rate 3600 operating cycles/hour Load factor: 0.5</p>	<p>a.c. supply for 1 million operating cycles utilisation category AC-15</p>			
	<p>V</p> <p>A</p>	<p>24</p> <p>4</p>	<p>120</p> <p>3</p>	<p>230</p> <p>2</p>
	<p>V</p> <p>A</p>	<p>24</p> <p>3</p>	<p>120</p> <p>1.5</p>	<p>230</p> <p>1</p>
	<p>d.c. supply for 1 million operating cycles utilisation category DC-13</p>			
<p>V</p> <p>A</p>	<p>24</p> <p>0.5</p>	<p>110</p> <p>0.2</p>		
<p>V</p> <p>A</p>	<p>24</p> <p>0.4</p>	<p>110</p> <p>0.15</p>		
<p>Electrical reliability Failure rate Conforming to IEC/EN 60947-5-4</p>	<p>In clean environment</p> <p>Standard blocks: - at 17 V and 5 mA. $\lambda < 10^{-8}$ - at 5 V and 1 mA. $\lambda < 10^{-6}$</p> <p>Special blocks with gold flashed contacts, for low power switching: - at 5 V and 1 mA. $\lambda < 10^{-7}$</p>			
	<p>In dusty environment</p> <p>Special blocks with gold flashed contacts and dust protection for low power switching only: - at 5 V and 1 mA, $\lambda < 10^{-7}$</p>			

Characteristics of illuminated units (pilot lights)

Mechanical characteristics

Vibration resistance	Conforming to IEC 60068-2-6		Frequency: 12 to 500 Hz: 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27		Half sine wave acceleration 11 ms: 50 gn Half sine wave acceleration 18 ms: 30 gn

Electrical characteristics

Cabling capacity	Conforming to EN60947-1	mm ²	Screw clamp terminals Min: 1 x 0.22 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end
Rated insulation voltage	Conforming to EN60947-1	V	Direct supply pilot light blocks (BA 9s bulb): U _i = 250, degree of pollution 3 Pilot light blocks with integral LED: U _i = 250, degree of pollution 3 Pilot light blocks with transformer: U _i = 600, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN60947-1	kV	Direct supply pilot light blocks (BA 9s bulb): U _{imp} = 4 Pilot light blocks with integral LED: U _{imp} = 4 Pilot light blocks with transformer: U _{imp} = 6

Specific characteristics of single light blocks with integral LED

Voltage limits	For rated voltage	V	12 V: 10 to 15 $\overline{\sim}$; 10.2 to 13.8 \sim 24 V: 19.2 to 30 $\overline{\sim}$; 21.6 to 26.4 \sim 24 to 120 V: 20 to 132 $\overline{\sim}$ 48 to 120 V: 40 to 132 \sim 240 V: 195 to 264 \sim
Current consumption	Applicable to all colours	mA	Blocks with $\overline{\sim}$ 12 V supply: 18 Blocks with $\overline{\sim}$ 24 V supply: 18 Blocks with \sim 120 V supply: 14 Blocks with \sim 240 V supply: 14
Service life	At rated voltage and at an ambient temperature of 25 °C	H	100 000
Surge withstand	Conforming to IEC 61000-4-5	kV	1
Resistance to fast transients	Conforming to IEC 61000-4-4	kV	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	V/m	10
Resistance to electrostatic discharges	Conforming to IEC 61000-4-2	kV	8: in free air, in insulating parts 6: on contact, on metal parts
Direct parallel connection across inductive load e.g.: contactor coil or solenoid	Maximum power of load	VA	For high power applications (≥ 30 VA), a ZBZ V LED suppressor must be connected across the light block terminals (see page 47)
Electromagnetic emission	Conforming to IEC 55011		Class B

Specific characteristics

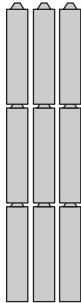
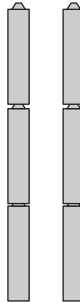
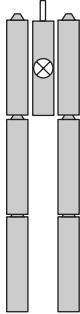
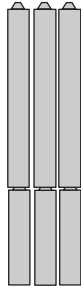

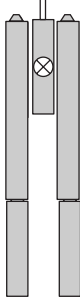
Body/fixing collar

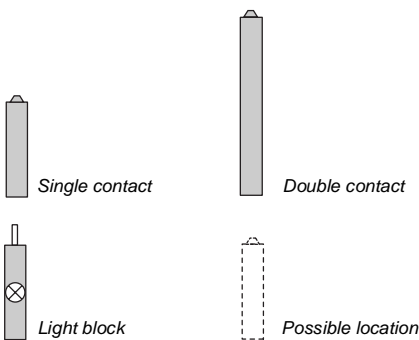
Tightening torque of fixing screw		N.m	0.8 (max 1.2)
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Hour counters and annunciators

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

Maximum recommended configurations guaranteeing achievement of catalogue characteristics

Unit type (complete units XB4 B, heads ZB4 B)	Pushbuttons, spring return XB4 BA●, ZB4 BA●, XB4 BC●, ZB4 BC●, XB4 BL●, ZB4 BL●, XB4 BP●, ZB4 BP●, ZB4 BR●	Double-headed pushbuttons XB4 BL●45, ZB4 BL8●, ZB4 BA8●, ZB4 BA9●, ZB4 BL9●	Illuminated pushbuttons XB4 BW●, ZB4 BW● Illuminated double-headed pushbuttons XB4 BW84●, ZB4 BW8●●●●●3	
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



Emergency Stop XB4BT●, ZB4BT●, XB4BS●, ZB4BS●		Selector switches ■ Standard handle XB4 BD●, ZB4 BD●, ■ Long handle XB4 BJ●, ZB4 BJ●, ■ Knurled knob ZB4 BD●9, ■ Key switch XB4 BG●, ZB4 BG●			Illuminated selector switches with standard handle XB4 BK●, ZB4 BK●		Toggle switches ZB4 BD●8		Pushbuttons, push-push ZB4 BH●	Illuminated pushbuttons push-push ZB4 BH●3
								-	-	
4	4	5	4	6	4	6		3	2	
2	1	2	1	2	2	3		-	-	
+	+	+	+	+	+	+		-	-	
0	2	1	2	2	0	0		-	-	
-	-	-	-	-	1	-		-	1	

Sequence of contacts fitted to selector switch bodies

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

Assembly of other products using:
body/contact assemblies: see page 40
accessories: see pages 50 and 52

Pushbuttons with flush push ⁽¹⁾


Screw clamp terminal connections

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight kg
		N/O	N/C			

Complete units

	Flush	1	-	Black	XB4 BA21 (ZB4 BZ101 + ZB4 BA2)	0.080
				Green	XB4 BA31 (ZB4 BZ101 + ZB4 BA3)	0.080
				Yellow	XB4 BA51 (ZB4 BZ101 + ZB4 BA5)	0.080
				Blue	XB4 BA61 (ZB4 BZ101 + ZB4 BA6)	0.080
				Red	XB4 BA42 (ZB4 BZ102 + ZB4 BA4)	0.080
		-	1			

Heads only

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

Pushbuttons with recessed push ⁽¹⁾

High guard

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

Heads with black metal bezel

To order, add a figure 7 to the references listed above.
Example: **ZB4 BA0** becomes **ZB4 BA07**.

⁽¹⁾ Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

⁽²⁾ Coloured cap to be ordered separately: see page 50.

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

⁽⁴⁾ For legend ordering information, see page 52.

Assembly of other products using:
body/contact assemblies: see page 40
accessories: see pages 50 and 52



XB4 BL42



ZB4 BL1

Pushbuttons with projecting push (1)

Screw clamp terminal connections

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
						kg
		N/O	N/C			

Complete units

	Projecting	–	1	Red	XB4 BL42 (ZB4 BZ102 + ZB4 BL4)	0.081
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Heads only

	Projecting			White	ZB4 BL1	0.030
				Black	ZB4 BL2	0.030
				Green	ZB4 BL3	0.030
				Red	ZB4 BL4	0.030
				Yellow	ZB4 BL5	0.030
				Blue	ZB4 BL6	0.030

Pushbuttons with booted head (1)

Screw clamp terminal connections

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
						kg
		N/O	N/C			

Complete units

	Booted, clear silicone (colour of push unobscured)	1	–	Black	XB4 BP21 (ZB4 BZ101 + ZB4 BP2)	0.082
				Green	XB4 BP31 (ZB4 BZ101 + ZB4 BP3)	0.082
				Yellow	XB4 BP51 (ZB4 BZ101 + ZB4 BP5)	0.082
				Blue	XB4 BP61 (ZB4 BZ101 + ZB4 BP6)	0.082
		–	1	Red	XB4 BP42 (ZB4 BZ102 + ZB4 BP4)	0.082

Heads only

	Flush, booted (clear), for insertion of legend (2) (colour of push unobscured)			White	ZB4 BP18	0.034
				Green	ZB4 BP38	0.034
				Red	ZB4 BP48	0.034
				Yellow	ZB4 BP58	0.034
				Blue	ZB4 BP68	0.034
	Flush, booted (clear), integral boot (colour of push unobscured)			White	ZB4 BP18	0.026
				Green	ZB4 BP383	0.026
				Red	ZB4 BP483	0.026
				Yellow	ZB4 BP583	0.026
				Blue	ZB4 BP683	0.026
	Projecting, booted (clear silicone) (colour of push unobscured)			White	ZB4 BP1	0.031
				Black	ZB4 BP2	0.031
				Green	ZB4 BP3	0.031
				Red	ZB4 BP4	0.031
				Yellow	ZB4 BP5	0.031
				Blue	ZB4 BP6	0.031
	Projecting, booted (coloured silicone) can be replaced without dismantling the head, compatible with legend holder			White	ZB4 BP1S	0.034
				Black	ZB4 BP2S	0.034
				Green	ZB4 BP3S	0.034
				Red	ZB4 BP4S	0.034
				Yellow	ZB4 BP5S	0.034
				Blue	ZB4 BP6S	0.034

Heads with black metal bezel

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

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










(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

(2) For legend ordering information, see page 52.

Assembly of other products using:
body/contact assemblies: see page 40
accessories: see pages 50 and 52

Pushbuttons with flush or projecting push (1)

Screw clamp terminal connections

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

814085



XB4 BA4322

814151



ZB4 BA331

814152



ZB4 BA334

814153



ZB4 BL432

Heads with black metal bezel

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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.
(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

▲ Available:
3rd quarter 2006.

General :
pages 2 to 9



Characteristics :
pages 10 to 13

Dimensions :
pages 62 to 73

Assembly of other products using:
body/contact assemblies: see page 40
combined sub-assemblies: see page 44
accessories: see page 52

Illuminated pushbuttons with flush push (1)

Screw clamp terminal connections

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

Complete units - With plain lens



XB4 BW33B5



XB4 BW34G5

Shape of head	Description	Type of contact	Type of contact	Supply voltage	Colour of push	Reference	Weight
	Integral LED	1	1	~ 24	White	XB4 BW31B5 (ZB4 BW0B15 + ZB4 BW313)	0.097
					Green	XB4 BW33B5 (ZB4 BW0B35 + ZB4 BW333)	0.097
					Red	XB4 BW34B5 (ZB4 BW0B45 + ZB4 BW343)	0.097
					Orange	XB4 BW35B5 (ZB4 BW0B55 + ZB4 BW353)	0.097
					Blue	XB4 BW36B5 (ZB4 BW0B65 + ZB4 BW363)	0.097
				~ 48...120	White	XB4 BW31G5 (ZB4 BW0G15 + ZB4 BW313)	0.097
					Green	XB4 BW33G5 (ZB4 BW0G35 + ZB4 BW333)	0.097
					Red	XB4 BW34G5 (ZB4 BW0G45 + ZB4 BW343)	0.097
					Orange	XB4 BW35G5 (ZB4 BW0G55 + ZB4 BW353)	0.097
					Blue	XB4 BW36G5 (ZB4 BW0G65 + ZB4 BW363)	0.097
				~ 230...240	White	XB4 BW31M5 (ZB4 BW0M15 + ZB4 BW313)	0.097
					Green	XB4 BW33M5 (ZB4 BW0M35 + ZB4 BW333)	0.097
					Red	XB4 BW34M5 (ZB4 BW0M45 + ZB4 BW343)	0.097
					Orange	XB4 BW35M5 (ZB4 BW0M55 + ZB4 BW353)	0.097
					Blue	XB4 BW36M5 (ZB4 BW0M65 + ZB4 BW363)	0.097

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

Assembly of other products using:
combined sub-assemblies: see page 44
accessories: see page 52







ZB4 BW333




ZB4 BW563



Illuminated pushbuttons with flush push (1)

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

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

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

Illuminated pushbuttons with projecting push (1)

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

Heads with black metal bezel

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

Example: ZB4 BW313 becomes ZB4 BW3137.

Example 2: ZB4 BW313S becomes ZB4 BW313S7.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

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

(3) For legend ordering information, see page 52.

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

Assembly of other products using:
combined sub-assemblies: see page 46
accessories: see page 52

Control and signalling units Ø 22

Harmony® XB4, metal

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

Illuminated pushbuttons with flush push (1)



Screw clamp terminal connections

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

Complete units - With plain lens



XB4 BW3545

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

Heads only (2) - With plain lens



ZB4 BW33

Shape of head	Description	Colour of push	Reference	Weight kg
	Flush	White	ZB4 BW31	0.027
		Green	ZB4 BW33	0.027
		Red	ZB4 BW34	0.027
		Orange	ZB4 BW35	0.027
		Blue	ZB4 BW36	0.027
		Clear	ZB4 BW37	0.027

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


Shape of head	Description	Colour of push	Reference	Weight kg
	Flush	White	ZB4 BW31S	0.027
		Green	ZB4 BW33S	0.027
		Red	ZB4 BW34S	0.027
		Orange	ZB4 BW35S	0.027
		Blue	ZB4 BW36S	0.027
		Clear	ZB4 BW37S	0.027

Illuminated pushbuttons with projecting push (1)


Heads only (2) - With plain lens



ZB4 BW14

Shape of head	Description	Colour of push	Reference	Weight kg
	Projecting	White	ZB4 BW11	0.028
		Green	ZB4 BW13	0.028
		Red	ZB4 BW14	0.028
		Orange	ZB4 BW15	0.028
		Blue	ZB4 BW16	0.028
		Clear	ZB4 BW17	0.028

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

Shape of head	Description	Colour of push	Reference	Weight kg
	Projecting	White	ZB4 BW11S	0.027
		Green	ZB4 BW13S	0.027
		Red	ZB4 BW14S	0.027
		Orange	ZB4 BW15S	0.027
		Blue	ZB4 BW16S	0.027
		Clear	ZB4 BW17S	0.027

Heads with black metal bezel

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

Example: **ZB4 BW31** becomes **ZB4 BW317**. Example 2: **ZB4 BW31S** becomes **ZB4 BW317S**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

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

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



Assembly of other products using:
combined sub-assemblies: see page 44
accessories: see pages 51 and 52

Control and signalling units Ø 22

Harmony® XB4, metal

Double-headed pushbuttons, spring return, unmarked

Double-headed pushbuttons (1)

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

814160



ZB4 BA8134

814161





ZB4 BL8312

814162



ZB4 BL9312

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

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

814246



ZB4 BW812743

Heads with black metal bezel

To order, add a figure 7 to the references selected above.
Example: **ZB4 BA8134** becomes **ZB4 BA81347**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

(2) For a head with IP 66 degree of protection or NEMA type 4X, fit a clear sealing boot **ZBW 008**, see page 51.

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

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

Assembly of other products using:
combined sub-assemblies: see page 44
accessories: see pages 51 and 52



Control and signalling units Ø 22

Harmony® XB4, metal

Double-headed pushbuttons, spring return, with marking

Double-headed pushbuttons (1)


Screw clamp terminal connections

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

Complete units



	1 flush green push (marked "I") 1 projecting red push (marked "O")	1	1	Green	IP 40	XB4 BL845 (ZB4 BZ105 + ZB4 BL8434)	0.106
				Red	IP 66	XB4 BL945 (ZB4 BZ105 + ZB4 BL9434)	0.111

Heads only


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

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




Screw clamp terminal connections

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

Complete units

	1 flush green push (marked "I") 1 yellow pilot light 1 projecting red push (marked "O")	1	1	~ 24	Green	XB4 BW84B5 (ZB4 BW0B55 + ZB4 BW843743)	0.116
				~ 48...120	Green	XB4 BW84G5 (ZB4 BW0G55 + ZB4 BW843743)	0.116
				~ 230...240	Green	XB4 BW84M5 (ZB4 BW0M55 + ZB4 BW843743)	0.116

Heads only (3)

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

Heads with black metal bezel

To order, add a figure 7 to the references selected above.
Example: **ZB4 BA8234** becomes **ZB4 BA82347**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

(2) For IP 66 degree of protection or NEMA type 4, fit a clear sealing boot **ZBW 008**, see page 51.

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

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



XB4 BL845



ZB4 BL8434



ZB4 BL8412



XB4 BW84B5



ZB4 BW823743





ZB4 BW841723


Assembly of other products using:
body/contact assemblies: see page 40
accessories: see page 52

Mushroom head pushbuttons (1) (2)


Screw clamp terminal connections

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

Complete units

	Mushroom head	1	–	40	Black	XB4 BC21 (ZB4 BZ101 + ZB4 BC2)	0.122
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Heads only


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

Illuminated mushroom head pushbuttons (1) (2)

Integral LED

Shape of head	Type of push	Push Ø (mm)	Colour	Reference	Weight kg
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Heads only (4)

	Mushroom head	40	White	ZB4 BW413	0.051
			Green	ZB4 BW433	0.051
			Red	ZB4 BW443	0.051
			Orange	ZB4 BW453	0.051
			Blue	ZB4 BW463	0.051

Heads with black metal bezel

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

- (1) These pushbuttons and heads cannot be used for an Emergency Stop function.
(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.
(3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head: 6.
(4) Only for use with bodies comprising a light block with integral LED.





Assembly of other products using:
body/contact assemblies: see page 40
accessories: see page 52

Control and signalling units Ø 22

Harmony® XB4, metal

Mushroom head pushbuttons, latching

Mushroom head pushbuttons (1) (2)

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



ZB4 BT2




ZB4 BS62



ZB4 BS72

Heads with black metal bezel

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

- (1) These pushbuttons and heads cannot be used for an Emergency Stop function.
(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.
(3) For specific keys with other numbers, please consult your Regional Sales Office.
(4) The symbol  indicates key withdrawal position(s).

Assembly of other products using:
body/contact assemblies: see page 40
accessories: see pages 57 and 58

Control and signalling units Ø 22

Harmony® XB4, metal

Emergency stop

Conforming to Machinery Directive 98/37/EC
and standard EN 418/ISO 13850






Mushroom head Emergency stop trigger action and mechanical latching pushbuttons conform to standard EN 418/ISO 13850, to Machinery Directive 98/37/EC and to standard IEC/EN 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Emergency stop trigger action and mechanical latching pushbuttons (1)





Screw clamp terminal connections

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

Complete units

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


Heads only

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

Heads with black metal bezel

To order, add a figure 7 to the references selected above.
Example: **ZB4 BT84** becomes **ZB4 BT847**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

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

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

(4) Other key numbers:

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

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

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

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

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

▲ Available:
3rd quarter 2006.

General :
pages 2 to 9

Characteristics :
pages 10 to 13

Dimensions :
pages 62 to 73

Assembly of other products using:
body/contact assemblies: see page 40
combined sub-assemblies: see page 44
accessories: see pages 57 and 58





Emergency stop mechanical latching pushbuttons conform to standard IEC/EN 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Emergency stop mechanical latching pushbuttons (1)





Screw clamp terminal connections

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

Complete units

	Push-pull	–	1	40	Red	XB4 BT42 (ZB4 BZ102 + ZB4 BT4)	0.125
	Turn to release	–	1	40	Red	XB4 BS542 (ZB4 BZ102 + ZB4 BS54)	0.118
	Key release (key n° 455)  (2)	–	1	40	Red	XB4 BS142 (ZB4 BZ102 + ZB4 BS14)	0.133

Heads only


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

Illuminated Emergency stop, mechanical latching pushbuttons (1)

Screw clamp terminal connections

Shape of head	Type of reset	Push Ø mm	Colour	Reference	Weight kg
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Heads only (5)


	Push-pull	40	Red	ZB4 BW643	0.051
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Heads with black metal bezel

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

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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

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

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

(4) Other key numbers:

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

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

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

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

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

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

▲ Available:
3rd quarter 2006.

General :
pages 2 to 9

Characteristics :
pages 10 to 13

Dimensions :
pages 62 to 73

Assembly of other products using:
body/contact assemblies: see page 40
accessories: see page 52

Pushbuttons with flush push ⁽¹⁾


Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only				
	Flush	White	ZB4 BH01	0.029
		Black	ZB4 BH02	0.029
		Green	ZB4 BH03	0.029
		Red	ZB4 BH04	0.029
		Yellow	ZB4 BH05	0.029
		Blue	ZB4 BH06	0.029

814164



ZB4 BH02

Pushbuttons with projecting push ⁽¹⁾

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

623792



ZB4 BH6



Heads with black metal bezel

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



⁽¹⁾ Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

Assembly of other products using:
combined sub-assemblies: see page 44
accessories: see page 52

Illuminated pushbuttons with flush push (1)

Shape of head	Type of push	Colour of lens	Reference	Weight kg
Heads only (2)				
 ZB4 BH033	 Flush	White	ZB4 BH013	0.026
		Green	ZB4 BH033	0.026
		Red	ZB4 BH043	0.026
		Orange	ZB4 BH053	0.026
		Blue	ZB4 BH063	0.026

Illuminated pushbuttons with projecting push (1)

Shape of head	Type of push	Colour of lens	Reference	Weight kg
Heads only (2)				
 ZB4 BH63	 Projecting	White	ZB4 BH13	0.026
		Green	ZB4 BH33	0.026
		Red	ZB4 BH43	0.026
		Orange	ZB4 BH53	0.026
		Blue	ZB4 BH63	0.026

Heads with black metal bezel

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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.
(2) Only for use with bodies comprising a light source with integral LED.

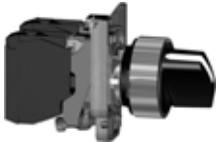





Assembly of other products using:
body/contact assemblies: see page 40
accessories: see page 52

Selector switches with standard handle (1)








Screw clamp terminal connections

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


Complete units

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

Heads only

	Standard handle, black			2-position	Stay put		ZB4 BD2	0.040
					Spring return from right to left		ZB4 BD4	0.045
				3-position	Stay put		ZB4 BD3	0.040
					Spring return to centre		ZB4 BD5	0.040
					Spring return from left to centre		ZB4 BD7	0.040
					Spring return from right to centre		ZB4 BD8	0.040

Heads only with other coloured handles

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








Heads with black metal bezel

To order, add a figure **7** to the references selected above.
Example: **ZB4 BD2** becomes **ZB4 BD27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

Assembly of other products using:
body/contact assemblies: see page 40
accessories: see page 52

Selector switches with knurled knob (1)




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

106189



ZB4 BD29

Toggle switches (1)

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

814205



ZB4 BD28

Heads with black metal bezel

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

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

Assembly of other products using:
combined sub-assemblies: see page 44
accessories: see page 52

Control and signalling units Ø 22

Harmony® XB4, metal

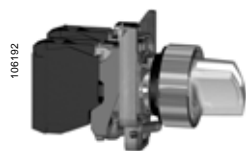
Illuminated selector switches with standard handle,
with integral LED

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

Screw clamp terminal connections

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

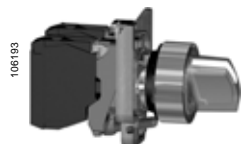
Complete units



XB4 BK123B5



Protected LED



XB4 BK134B5

Standard handle	1	1	2-position Stay put ∨	≈ 24	Green	XB4 BK123B5 (ZB4 BW0B35 + ZB4 BK1233)	0.101	
					Red	XB4 BK124B5 (ZB4 BW0B45 + ZB4 BK1243)	0.101	
					Orange	XB4 BK125B5 (ZB4 BW0B55 + ZB4 BK1253)	0.101	
					~ 48...120	Green	XB4 BK123G5 (ZB4 BW0G35 + ZB4 BK1233)	0.101
					Red	XB4 BK124G5 (ZB4 BW0G45 + ZB4 BK1243)	0.101	
					Orange	XB4 BK125G5 (ZB4 BW0G55 + ZB4 BK1253)	0.101	
	~ 230...240	Green	XB4 BK123M5 (ZB4 BW0M35 + ZB4 BK1233)	0.101				
		Red	XB4 BK124M5 (ZB4 BW0M45 + ZB4 BK1243)	0.101				
		Orange	XB4 BK125M5 (ZB4 BW0M55 + ZB4 BK1253)	0.101				
		1	1	3-position Stay put ∨	≈ 24	Green	XB4 BK133B5 (ZB4 BW0B35 + ZB4 BK1333)	0.101
						Red	XB4 BK134B5 (ZB4 BW0B45 + ZB4 BK1343)	0.101
						Orange	XB4 BK135B5 (ZB4 BW0B55 + ZB4 BK1353)	0.101
~ 48...120	Green					XB4 BK133G5 (ZB4 BW0G35 + ZB4 BK1333)	0.101	
Red	XB4 BK134G5 (ZB4 BW0G45 + ZB4 BK1343)					0.101		
Orange	XB4 BK135G5 (ZB4 BW0G55 + ZB4 BK1353)					0.101		
~ 230...240	Green	XB4 BK133M5 (ZB4 BW0M35 + ZB4 BK1333)	0.101					
	Red	XB4 BK134M5 (ZB4 BW0M45 + ZB4 BK1343)	0.101					
	Orange	XB4 BK135M5 (ZB4 BW0M55 + ZB4 BK1353)	0.101					








(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated selector switches with standard handle,
with integral LED

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

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



ZB4 BK1343

Heads with black metal bezel

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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.
(2) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:
body/contact assemblies: see page 40
accessories: see page 52

Control and signalling units Ø 22

Harmony® XB4, metal





Selector switches with long handle: normal and padlockable

Selector switches with long handle (1)



























Screw clamp terminal connections

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

Complete units

	Long handle, black	1	–	2-position	Stay put		ZB4 BJ21 (ZB4 BZ101 + ZB4 BJ2)	0.096
		2	–	3-position	Stay put		ZB4 BJ33 + (ZB4 BZ103 + ZB4 BJ3)	0.096
					Spring return to centre		ZB4 BJ53 (ZB4 BZ103 + ZB4 BJ5)	0.096

Heads only


	Long handle, black			2-position	Stay put		ZB4 BJ2	0.040		
					Spring return from right to left		ZB4 BJ4	0.045		
				3-position	Stay put		ZB4 BJ3	0.040		
					Spring return to centre		ZB4 BJ5	0.040		
					Spring return from left to centre		ZB4 BJ7	0.040		
					Spring return from right to centre		ZB4 BJ8	0.040		
			Long handle, padlockable (2)			2-position	Stay put		ZB4 BJ291	0.048
									ZB4 BJ292	0.048
									ZB4 BJ294	0.048
					Spring return from right to left		ZB4 BJ491	0.054		
				3-position	Stay put		ZB4 BJ391	0.048		
							ZB4 BJ392	0.048		
						ZB4 BJ393	0.048			
						ZB4 BJ394	0.048			
						ZB4 BJ395	0.048			
						ZB4 BJ396	0.048			
						ZB4 BJ397	0.048			
					Spring return to centre		ZB4 BJ593	0.048		
					Spring return from right to centre		ZB4 BJ891	0.048		
						ZB4 BJ893	0.048			
					ZB4 BJ895	0.048				
				Spring return from left to centre		ZB4 BJ792	0.048			
			ZB4 BJ793	0.048						
			ZB4 BJ796	0.048						

Heads with black metal bezel

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

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

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

(2) The symbol  indicates the padlocking positions.

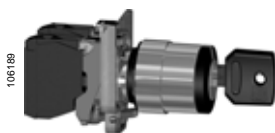
Assembly of other products using:
body/contact assemblies: see page 40
accessories: see page 52

Key switches (1) (2)

Screw clamp terminal connections

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

Complete units



XB4 BG33



Key switch with key n° 455

1	-	2-position	Stay put		XB4 BG21 (ZB4 BZ101 + ZB4 BG2)	0.153
			Spring return to left		XB4 BG41 (ZB4 BZ101 + ZB4 BG4)	0.153
2	-	3-position	Stay put		XB4 BG61 (ZB4 BZ101 + ZB4 BG6)	0.153
			Stay put		XB4 BG03 (ZB4 BZ103 + ZB4 BG0)	0.153
			Stay put		XB4 BG33 (ZB4 BZ103 + ZB4 BG3)	0.153

Heads only



ZB4 BG0



Key switch with key n° 455 (3) (4)

2-position	Stay put		ZB4 BG2	0.098
			ZB4 BG02	0.098
2-position	Spring return from right to left		ZB4 BG4	0.098
			ZB4 BG6	0.098
3-position	Stay put		ZB4 BG0	0.098
			ZB4 BG3	0.098
3-position	Stay put		ZB4 BG5	0.098
			ZB4 BG9	0.098
3-position	Stay put		ZB4 BG09	0.098
			ZB4 BG1	0.098
3-position	Spring return from left to centre		ZB4 BG7	0.098
			ZB4 BG8	0.098
3-position	Spring return from right to centre		ZB4 BG05	0.098
			ZB4 BG08	0.098
2-position	Stay put		ZB4 BG2TEC10	0.160
			ZB4 BG4TEC10	0.160
2-position	Spring return from right to left		ZB4 BG6TEC10	0.170
			ZB4 BG0TEC10	0.160
3-position	Stay put		ZB4 BG3TEC10	0.160
			ZB4 BG5TEC10	0.160
3-position	Stay put		ZB4 BG9TEC10	0.160
			ZB4 BG7TEC10	0.170
3-position	Spring return from right to centre		ZB4 BG05TEC10	0.170
			ZB4 BG05TEC10	0.170



Key switch with key TEC10

Heads with black metal bezel

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

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 14.

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

(3) Other key numbers: Key n° 421E: add suffix **12** to the reference. Key n° 458A: add suffix **10** to the reference. Key n° 520E: add suffix **14** to the reference. Key n° 3131A: add suffix **20** to the reference.

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

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


Assembly of other products using:
body/light assemblies: see page 48
accessories: see pages 50 and 52






XB4 BVB5

Pilot lights with integral LED

Screw clamp terminal connections

Shape of head	Supply voltage V	Colour	Reference	Weight kg
Complete units				
■ With plain lens				
	≈ 24	White	XB4 BVB1 (ZB4 BVB1 + ZB4 BV013)	0.080
		Green	XB4 BVB3 (ZB4 BVB3 + ZB4 BV033)	0.080
		Red	XB4 BVB4 (ZB4 BVB4 + ZB4 BV043)	0.080
		Orange	XB4 BVB5 (ZB4 BVB5 + ZB4 BV053)	0.080
		Blue	XB4 BVB6 (ZB4 BVB6 + ZB4 BV063)	0.080
		~ 48...120	White	XB4 BVG1 (ZB4 BVG1 + ZB4 BV013)
Green	XB4 BVG3 (ZB4 BVG3 + ZB4 BV033)		0.080	
Red	XB4 BVG4 (ZB4 BVG4 + ZB4 BV043)		0.080	
Orange	XB4 BVG5 (ZB4 BVG5 + ZB4 BV053)		0.080	
Blue	XB4 BVG6 (ZB4 BVG6 + ZB4 BV063)		0.080	
~ 230...240	White		XB4 BVM1 (ZB4 BVM1 + ZB4 BV013)	0.080
	Green	XB4 BVM3 (ZB4 BVM3 + ZB4 BV033)	0.080	
	Red	XB4 BVM4 (ZB4 BVM4 + ZB4 BV043)	0.080	
	Orange	XB4 BVM5 (ZB4 BVM5 + ZB4 BV053)	0.080	
	Blue	XB4 BVM6 (ZB4 BVM6 + ZB4 BV063)	0.080	

Heads only (1)

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



ZB4 BV063



ZB4 BV043S

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

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

(3) For legend ordering information: see page 52.

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

Assembly of other products using:
body/light assemblies: see page 49
accessories: see pages 50 and 52


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

Screw clamp terminal connections

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



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

	≤ 250	White	XB4 BV61 (ZB4 BV6 + ZB4 BV01)	0.075
		Green	XB4 BV63 (ZB4 BV6 + ZB4 BV03)	0.075
		Red	XB4 BV64 (ZB4 BV6 + ZB4 BV04)	0.075
		Orange	XB4 BV65 (ZB4 BV6 + ZB4 BV05)	0.075



XB4 BV64

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

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




XB4 BV33

Heads only (1)

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

	With BA 9s base fitting (incandescent, neon or LED)	White	ZB4 BV01	0.027
		Green	ZB4 BV03	0.027
		Red	ZB4 BV04	0.027
		Orange	ZB4 BV05	0.027
		Blue	ZB4 BV06	0.027
		Clear	ZB4 BV07	0.027



ZB4 BV04

■ With grooved lens (2)

	With BA 9s base fitting (neon or LED only)	White	ZB4 BV01S	0.027
		Green	ZB4 BV03S	0.027
		Red	ZB4 BV04S	0.027
		Orange	ZB4 BV05S	0.027
		Blue	ZB4 BV06S	0.027
		Clear	ZB4 BV07S	0.027



ZB4 BV06S

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

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

Assembly of other products using:
body/contact assemblies: see page 40
accessories: see page 52

Control and signalling units Ø 22

Harmony® XB4, metal


Specific functions

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



XB4 BA801

Heads for manual overload reset pushbuttons

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



ZB4 BD912

Heads + mounting base for potentiometer (1)

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

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

Annunciators (IP 40 NEMA 1)

Characteristics	Supply voltage V	Reference	Weight kg
85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 68)	≈ 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 KS

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



XB5 DT1S

(1) Potentiometer not included.

Control and signalling units Ø 22

Harmony® XB4, metal

Specific functions

Joystick controllers, wobblesticks

814342



XD4 PA12

Joystick controllers (with 54 mm long operating shaft) (1)

Description	Operation	Spring return to zero position	Reference	Weight kg
Complete products (screw clamp terminal connections)				
2-direction	1 notch 1 N/O contact per direction	Without	XD4 PA12	0.116
		With	XD4 PA22	0.116
4-direction	1 notch 1 N/O contact per direction	Without	XD4 PA14	0.133
		With	XD4 PA24	0.133

814346



ZD4 PA103

Sub-assemblies for joystick controllers

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

814348



ZD4 PA203

814347



ZD4 PA12

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

109497



ZB4 BB2

Wobblestick heads

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

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

Other versions

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

To combine with heads, see pages 16 to 38

Contact functions

Screw clamp terminal connections (1)

Simple functions unit

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Fixing collar + single contact block	1	–	1	ZB4 BZ101	0.053
	–	1	1	ZB4 BZ102	0.053
	2	–	1	ZB4 BZ103	0.062
	–	2	1	ZB4 BZ104	0.062
	1	1	1	ZB4 BZ105	0.062
	1	2	1	ZB4 BZ141	0.072
Single contact blocks	1	–	5	ZBE 101	0.011
	–	1	5	ZBE 102	0.011
Double contact blocks	2	–	5	ZBE 203	0.020
	–	2	5	ZBE 204	0.020
	1	1	5	ZBE 205	0.020
Contact blocks for low power switching, with gold flashed contacts	1	–	5	ZBE 1016	0.012
	–	1	5	ZBE 1026	0.012
Contact blocks for low power switching, with gold flashed contacts and dust protection(2)	1	–	5	ZBE 1016P	0.012
	–	1	5	ZBE 1026P	0.012

Specific function units

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Contact block, with early make contact	1	–	5	ZBE 201	0.011
Contact block, with late break contact	–	1	5	ZBE 202	0.011

Description	Type of contact		Reference	Weight kg
	N/O+N/C	N/O+N/O		
Fixing collar + contact block for overlapping contacts function	1	–	ZB4 BZ106	0.062
Fixing collar + contact block for sequencing contacts function	–	1	ZB4 BZ107	0.062

Body/fixing collar

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

(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 14.

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



ZB4 BZ101



ZBE 101



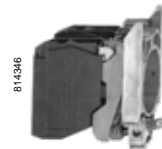
ZBE 203



ZBE 201



ZB4 BZ106



ZB4 BZ107



ZB4 BZ009

To combine with heads, see pages 16 to 38

Contact functions

Faston connectors (6.35 or 2 x 2.8 mm) (1)

Simple functions units

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Fixing collar + single contact block	1	–	1	ZB4 BZ1013	0.053
	–	1	1	ZB4 BZ1023	0.053
	2	–	1	ZB4 BZ1033	0.062
	–	2	1	ZB4 BZ1043	0.062
	1	1	1	ZB4 BZ1053	0.062
Single contact blocks	1	–	5	ZBE 1013 (2)	0.011
	–	1	5	ZBE 1023 (2)	0.011
Double contact blocks	2	–	5	ZBE 2033	0.020
	–	2	5	ZBE 2043	0.020
	1	1	5	ZBE 2053	0.020
Contact blocks for low power switching, with gold flashed contacts	1	–	5	ZBE 10163 (2)	0.012
	–	1	5	ZBE 10263 (2)	0.012
Contact blocks for low power switching, with gold flashed contacts and dust protection (3)	1	–	5	ZBE 1016P3 (2)	0.012
	–	1	5	ZBE 1026P3 (2)	0.012

Specific function units

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Contact block, with early make contact	1	–	5	ZBE 1013 (2)	0.011
Contact block, with late break contact	–	1	5	ZBE 1023 (2)	0.011

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

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

Sheet of 50 blank legends

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

For legend design for English, French, German, Italian, Spanish	1	XBY 2U	0.100
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(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3.

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

(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.



ZB4 BZ1043



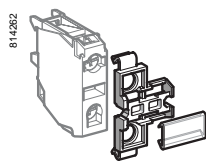
ZB4 BZ1053



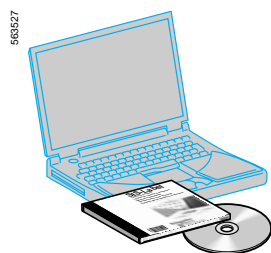
ZBE 1023



ZBE 2043



ZBZ 001





XBY 2U

To combine with heads, see pages 16 to 38

Contact functions: simple functions units

Plug-in connector (1)

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
					
	N/O	N/C			
Fixing collar + single contact block	1	–	1	ZB4 BZ1014	0.050
	–	1	1	ZB4 BZ1024	0.050
	2	–	1	ZB4 BZ1034	0.058
	–	2	1	ZB4 BZ1044	0.058
	1	1	1	ZB4 BZ1054	0.058
Standard contact blocks	1	2	1	ZB4 BZ1414	0.064
	1	–	5	ZBE 1014	0.009
	–	1	5	ZBE 1024	0.009

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	White	5	ZBV B14	0.016
		Green	5	ZBV B34	0.016
		Red	5	ZBV B44	0.016
		Orange	5	ZBV B54	0.016
		Blue	5	ZBV B64	0.016
Protected LED	~ 48...120	White	5	ZBV G14	0.016
		Green	5	ZBV G34	0.016
		Red	5	ZBV G44	0.016
		Orange	5	ZBV G54	0.016
		Blue	5	ZBV G64	0.016
ZBV B•4	~ 230...240	White	5	ZBV M14	0.016
		Green	5	ZBV M34	0.016
		Red	5	ZBV M44	0.016
		Orange	5	ZBV M54	0.016
		Blue	5	ZBV M64	0.016

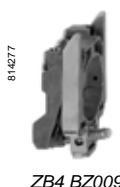
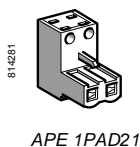
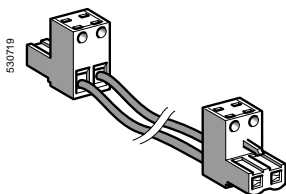
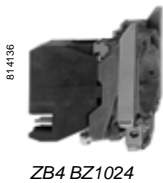
Connecting cables and connector

Description	Number of connectors	Wire c.s.a. mm ²	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
Self-stripping connector 2-pin, 5.08 mm pitch	–	0.75	–	16	APE 1PAD21	0.080
Spring terminal connector 2-pin, 5.08 mm pitch	–	0.2 to 2.5	–	10	APE 1PRE21	0.003

Body/fixing collar

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

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



To combine with heads, see pages 16 to 38

Contact blocks**For printed circuit board (1)**

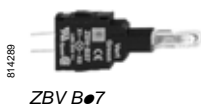
Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Standard contact blocks	1	–	10	ZBE 701	0.002
	–	1	10	ZBE 702	0.002
Contact blocks for low power switching, with gold flashed contacts	1	–	10	ZBE 7016	0.003
	–	1	10	ZBE 7026	0.003



ZBE 701



ZBE 702



ZBV B07



ZB4 BZ009



ZBZ 010



ZB4 BZ079 + ZB4 BZ009

Light blocks**For printed circuit board (1)**

Description	Supply voltage (V)	Colour of LED	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	≈ 24	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

Adapter (socket)**For printed circuit board**

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

Body/fixing collar**For use with**

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

Accessories specifically for printed circuit board mounting (1)**Must be used in conjunction with adapter (socket) ZBZ 010**

Description	For use with	Sold in lots of	Unit reference	Weight kg
Fixing collar/pillar	Printed circuit board support	10	ZB4 BZ079	0.003
Fixing screw for printed circuit board	Fixing collar/pillar ZB4 BZ079	10	ZBZ 006	0.011

(1) For details of support drilling and of printed circuit board: see page 73.

Control and signalling units Ø 22

Harmony® XB4, metal

Body/contact assemblies + light blocks with integral LED

To combine with:
heads, see pages 19 to 33
contacts, see page 40



ZB4 BW0...3

Complete body/contact assemblies and light blocks (1)

Screw clamp terminal connections

Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
		N/O	N/C			
	V					kg
Direct supply						
Integral LED	~ 24	1	-	White	ZB4 BW0B11	0.064
				Green	ZB4 BW0B31	0.064
				Red	ZB4 BW0B41	0.064
				Orange	ZB4 BW0B51	0.064
				Blue	ZB4 BW0B61	0.064
		-	1	White	ZB4 BW0B12	0.064
				Green	ZB4 BW0B32	0.064
				Red	ZB4 BW0B42	0.064
				Orange	ZB4 BW0B52	0.064
				Blue	ZB4 BW0B62	0.064
	2	-	White	ZB4 BW0B13	0.074	
			Green	ZB4 BW0B33	0.074	
			Red	ZB4 BW0B43	0.074	
			Orange	ZB4 BW0B53	0.074	
			Blue	ZB4 BW0B63	0.074	
	1	1	White	ZB4 BW0B15	0.074	
			Green	ZB4 BW0B35	0.074	
			Red	ZB4 BW0B45	0.074	
			Orange	ZB4 BW0B55	0.074	
			Blue	ZB4 BW0B65	0.074	
~ 48...120	1	-	White	ZB4 BW0G11	0.064	
			Green	ZB4 BW0G31	0.064	
			Red	ZB4 BW0G41	0.064	
			Orange	ZB4 BW0G51	0.064	
			Blue	ZB4 BW0G61	0.064	
	-	1	White	ZB4 BW0G12	0.064	
			Green	ZB4 BW0G32	0.064	
			Red	ZB4 BW0G42	0.064	
			Orange	ZB4 BW0G52	0.064	
			Blue	ZB4 BW0G62	0.064	
2	-	White	ZB4 BW0G13	0.074		
		Green	ZB4 BW0G33	0.074		
		Red	ZB4 BW0G43	0.074		
		Orange	ZB4 BW0G53	0.074		
		Blue	ZB4 BW0G63	0.074		
1	1	White	ZB4 BW0G15	0.074		
		Green	ZB4 BW0G35	0.074		
		Red	ZB4 BW0G45	0.074		
		Orange	ZB4 BW0G55	0.074		
		Blue	ZB4 BW0G65	0.074		

Other versions

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

(1) Can be fitted with additional contact blocks: see page 40.

Control and signalling units Ø 22

Harmony® XB4, metal

Body/contact assemblies + light blocks with integral LED

To combine with:
heads, see pages 19 to 33
contacts, see page 40



ZB4 BW0003

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

Screw clamp terminal connections

Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
		N/O	N/C			
	V					kg

Direct supply (continued)

Integral LED Protected LED	~ 230...240	1	-	White	ZB4 BW0M11	0.064
				Green	ZB4 BW0M31	0.064
				Red	ZB4 BW0M41	0.064
				Orange	ZB4 BW0M51	0.064
				Blue	ZB4 BW0M61	0.064
	-	1	-	White	ZB4 BW0M12	0.064
				Green	ZB4 BW0M32	0.064
				Red	ZB4 BW0M42	0.064
				Orange	ZB4 BW0M52	0.064
				Blue	ZB4 BW0M62	0.064
	2	-	-	White	ZB4 BW0M13	0.074
				Green	ZB4 BW0M33	0.074
				Red	ZB4 BW0M43	0.074
				Orange	ZB4 BW0M53	0.074
				Blue	ZB4 BW0M63	0.074
1	1	1	White	ZB4 BW0M15	0.074	
			Green	ZB4 BW0M35	0.074	
			Red	ZB4 BW0M45	0.074	
			Orange	ZB4 BW0M55	0.074	
			Blue	ZB4 BW0M65	0.074	

Supply via integral transformer

Integral LED Protected LED	~ 400 V 50 Hz	1	1	White	ZB4 BW05B15	0.168
				Green	ZB4 BW05B35	0.168
				Red	ZB4 BW05B45	0.168
				Orange	ZB4 BW05B55	0.168
				Blue	ZB4 BW05B65	0.168
	~ 400...460 V 60 Hz	1	1	White	ZB4 BW08B15	0.168
				Green	ZB4 BW08B35	0.168
				Red	ZB4 BW08B45	0.168
				Orange	ZB4 BW08B55	0.168
				Blue	ZB4 BW08B65	0.168
	~ 550...600 V 60 Hz	1	1	White	ZB4 BW09B15	0.168
				Green	ZB4 BW09B35	0.168
				Red	ZB4 BW09B45	0.168
				Orange	ZB4 BW09B55	0.168
				Blue	ZB4 BW09B65	0.168

Other versions

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

(1) Can be fitted with additional contact blocks: see page 40.



Control and signalling units Ø 22

Harmony® XB4, metal

Body/contact assemblies + light blocks with
BA 9s base fittingTo combine with:
heads, see page 21
contacts, see page 40Complete body/contact assemblies and light blocks ⁽¹⁾

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

Screw clamp terminal connections

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

Other versions

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

(1) Can be fitted with additional contact blocks: see page 40.

(2) Bulb to be ordered separately: see page 60.

To combine with:
heads, see page 20

Light blocks

Screw clamp terminal connections

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	White	5	ZBV J1	0.017	
		Green	5	ZBV J3	0.017	
		Red	5	ZBV J4	0.017	
		Orange	5	ZBV J5	0.017	
		Blue	5	ZBV J6	0.017	
		White	5	ZBV B1	0.017	
	≈ 24	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	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		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		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		
	Direct supply for BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	5	ZBV 6	0.016

Blocks for "test light" function

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

LED suppressors

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

Body/fixing collar

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

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

Identification of an XB4 B control or signalling unit	10	ZBZ 001	0.001
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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)

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

(1) Bulb to be ordered separately: see page 60.

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

(3) Block for use with ~ light blocks with integral LED types ZBV G●, ZBV M●, see connection on page 70.

Other versions

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

814273



ZBV B●

622067



ZBZ G156

622068



ZBZ M156

814274



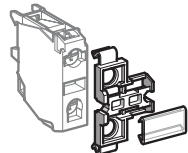
ZBZ V●

814272



ZB4 BZ009

814269



ZBZ 001

663627



XYB 2U

To combine with:
heads, see page 36
contacts, see page 40



ZB4 BV●●

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

Screw clamp terminal connections

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	≈ 12	White	ZB4 BVJ1	0.054
		Green	ZB4 BVJ3	0.054
		Red	ZB4 BVJ4	0.054
		Orange	ZB4 BVJ5	0.054
		Blue	ZB4 BVJ6	0.054
		White	ZB4 BVB1	0.054
	≈ 24 (1)	Green	ZB4 BVB3	0.054
		Red	ZB4 BVB4	0.054
		Orange	ZB4 BVB5	0.054
		Blue	ZB4 BVB6	0.054
		White	ZB4 BVBG1	0.054
		Green	ZB4 BVBG3	0.054
	≈ 24...120	Red	ZB4 BVBG4	0.054
		Orange	ZB4 BVBG5	0.054
		Blue	ZB4 BVBG6	0.054
		White	ZB4 BVG1	0.054
		Green	ZB4 BVG3	0.054
		Red	ZB4 BVG4	0.054
	≈ 48...120 (1)	Orange	ZB4 BVG5	0.054
		Blue	ZB4 BVG6	0.054
		White	ZB4 BVM1	0.054
		Green	ZB4 BVM3	0.054
		Red	ZB4 BVM4	0.054
		Orange	ZB4 BVM5	0.054
≈ 230...240 (1)	Blue	ZB4 BVM6	0.054	

Complete light bodies with 3-terminal "test" function

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

Screw clamp terminal connections

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	≈ 24 (2)	White	ZB4 BVB1156	0.054
		Green	ZB4 BVB3156	0.054
		Red	ZB4 BVB4156	0.054
		Orange	ZB4 BVB5156	0.054
		Blue	ZB4 BVB6156	0.054



ZB4 BVB●156

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

Screw clamp terminal connections

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	≈ 24	White	ZB4 BV18B1	0.054
		Green	ZB4 BV18B3	0.054
		Red	ZB4 BV18B4	0.054
		Orange	ZB4 BV18B5	0.054
		Blue	ZB4 BV18B6	0.054
		White	ZB4 BV18G1	0.054
	≈ 48...120	Green	ZB4 BV18G3	0.054
		Red	ZB4 BV18G4	0.054
		Orange	ZB4 BV18G5	0.054
		Blue	ZB4 BV18G6	0.054
		White	ZB4 BV18M1	0.054
		Green	ZB4 BV18M3	0.054
	≈ 230...240	Red	ZB4 BV18M4	0.054
		Orange	ZB4 BV18M5	0.054
		Blue	ZB4 BV18M6	0.054

(1) Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 41.

(2) For a ≈ 120 or 230 V supply, use complete body ZB4 BVG● or ZB4 BVM● with block for "test light" function type ZBZ M156, see page 47.

To combine with:
heads, see page 37
contacts, see page 40



ZB4 BV6



ZB4 BV●



ZB4 BV156

Complete light bodies (fixing collar + light block)
For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections

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	–	ZB4 BV6	0.052
Supply via integral transformer (1.2 VA, 6 V secondary)				
BA 9s base fitting incandescent bulb, included	~ 110...120 -50/60 Hz	–	ZB4 BV3	0.130
	~ 230 - 50 Hz	–	ZB4 BV4	0.130
	~ 220...240 - 60 Hz	–	ZB4 BV5	0.131
	~ 400 - 50 Hz	–	ZB4 BV5	0.131
	~ 440...480 - 60 Hz	–	ZB4 BV8	0.128
	~ 550...600 - 60 Hz	–	ZB4 BV9	0.131
BA 9s base fitting LED, included	~ 110...120 - 50/60 Hz	White	ZB4 BV3D1	0.134
		Green	ZB4 BV3D3	0.134
		Red	ZB4 BV3D4	0.134
		Orange	ZB4 BV3D5	0.134
		Blue	ZB4 BV3D6	0.134
		Blue	ZB4 BV3D6	0.134
	~ 230 - 50 Hz	White	ZB4 BV4D1	0.134
		Green	ZB4 BV4D3	0.134
		Red	ZB4 BV4D4	0.134
		Orange	ZB4 BV4D5	0.134
		Blue	ZB4 BV4D6	0.134
		Blue	ZB4 BV4D6	0.134
	~ 220...240 - 60 Hz	White	ZB4 BV5D1	0.134
		Green	ZB4 BV5D3	0.134
		Red	ZB4 BV5D4	0.134
		Orange	ZB4 BV5D5	0.134
		Blue	ZB4 BV5D6	0.134
		Blue	ZB4 BV5D6	0.134
~ 400 - 50/60 Hz	White	ZB4 BV5D1	0.134	
	Green	ZB4 BV5D3	0.134	
	Red	ZB4 BV5D4	0.134	
	Orange	ZB4 BV5D5	0.134	
	Blue	ZB4 BV5D6	0.134	
	Blue	ZB4 BV5D6	0.134	

Complete light bodies with 3-terminal "test" function (fixing collar + light block)
For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections

Direct supply				
BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB4 BV156	0.062

(1) Bulb to be ordered separately, see page 60.

Other versions

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 41.

Pushbutton caps - unmarked

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



ZBA ●



ZBL ●

Pushbutton caps - marked

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

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

(2) Double injection moulded marking.

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



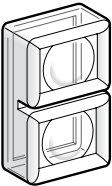
ZBA ●33

814334



ZBP 0

814335



ZBW 008

814336



ZBV 01●3

814337



ZBV 01●

Transparent boots for pushbuttons

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

Coloured boots

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

Lens caps

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

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

Control and signalling units Ø 22

Harmony® XB4, metal

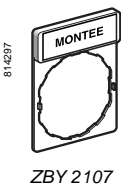
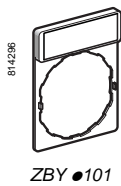
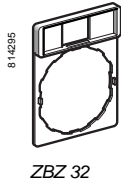
8 x 27 mm legends with 30 x 40 mm legend holders

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

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

(1) For legends, see pages 54 to 56.

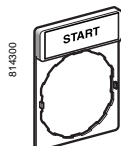
(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).



Control and signalling units Ø 22

Harmony® XB4, metal

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



ZBY 2303

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


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

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

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

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

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

814310

 ZBY 02178

814311

 ZBY 00104

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

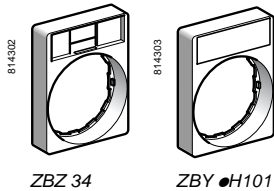
Colour	Marking	Reference	Weight kg		
Black or red background (1)	English	AUTO-HAND	ZBY 02364	0.001	
		AUTO-O-HAND	ZBY 02385	0.001	
		CLOSE	ZBY 02314	0.001	
		DOWN	ZBY 02308	0.001	
		EMERGENCY STOP	ZBY 02330	0.001	
		FAST	ZBY 02328	0.001	
		FORWARD	ZBY 02305	0.001	
		HAND	ZBY 02316	0.001	
		HAND-OFF-AUTO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

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

Control and signalling units Ø 22

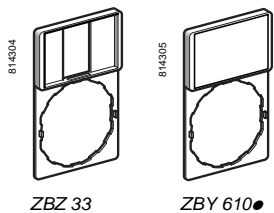
Harmony® XB4, metal

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



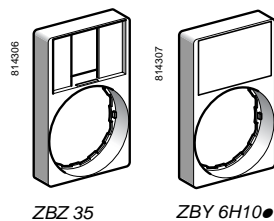
30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends

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



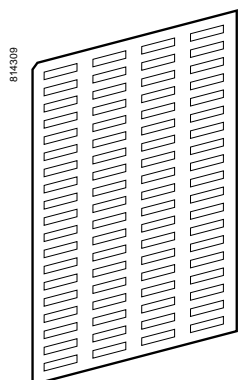
Standard (30 x 50 mm) legend holders for 18 x 27 mm legends

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



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

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

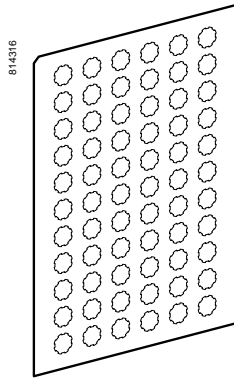


Legends for engraving

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

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

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



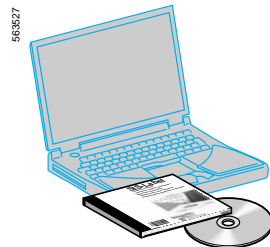
ZBY 1101

Legends for XB4 B pushbutton, illuminated pushbuttons and pilot lights

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

"SIS Label" labelling software

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



XBY 2U

Circular legends for Emergency stop mushroom head pushbuttons

Diameter mm	Colour	Marking on yellow background	Reference	Weight kg
60	Yellow	–	ZBY 9101	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		NOT-AUS	ZBY 9230	0.004
90	Yellow	–	ZBY 8101	0.008
		ARRET D'URGENCE	ZBY 8130	0.008
		EMERGENCY STOP	ZBY 8330	0.008
		NOT-AUS	ZBY 8230	0.008

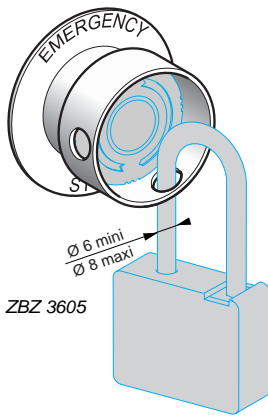


ZBY 9130

Control and signalling units Ø 22

Harmony® XB4, metal

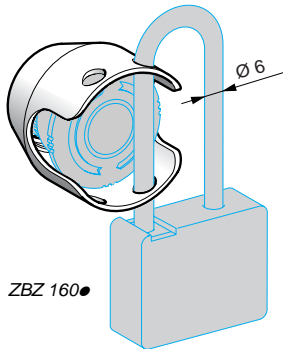
Accessories for pushbuttons: padlocking kit, protective guard, bellows seals, padlockable flaps



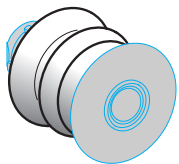
ZBZ 3605



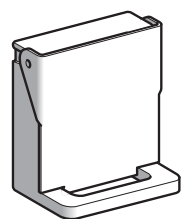
ZBY 9130T



ZBZ 160



ZBZ 28



ZB4 BZ64

Accessories

Padlocking kit for Emergency Stop

Description	Application	Colour	Reference	Weight kg
Padlocking kit Conforming to EN 418/ISO 13850 (1) (2) (padlockable)	For Emergency Stop function only, with the following Ø 40 trigger-action pushbuttons: XB4 BT8● XB4 BS8● XB4 BS9● ZB4 BT8● ZB4 BS8● ZB4 BS9●	Yellow	ZBZ 3605	0.045

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

Guards

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

Bellows seals for harsh environments (IP 69K)

Description	For use with	Colour Material	Sold in lots of	Unit reference	Weight kg
Bellows seals for harsh environments (humidity, dust, high-pressure cleaning)	Any Harmony XB4 metal, mushroom head pushbutton (3), Ø 40 mm or Ø 60 mm (except ZB4 BR●16)	Red Silicone	2	ZBZ 48 ▲	0.009
		Black EPDM	2	ZBZ 28 ▲	0.009

Padlockable flaps

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

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

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

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

▲ Available: 4th quarter 2006.

General :
pages 2 to 9Characteristics :
pages 10 to 13Dimensions :
pages 62 to 73

Control and signalling units Ø 22

Harmony® XB4, metal

Accessories for pushbuttons: blanking plugs
flush mounting kit , cable ducting support

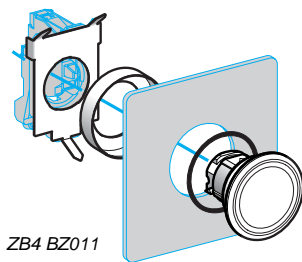
Accessories

Blanking plug

Description	For use with	Sold in lots of	Unit reference	Weight kg
Metal blanking plug, round, chromium plated (1)	Ø 22 control and signalling units	10	ZB4 SZ3	0.023
Plastic blanking plug, round, black (with fixing nut)	Ø 22 control and signalling units	10	ZB5 SZ3	0.009



ZB5 SZ3



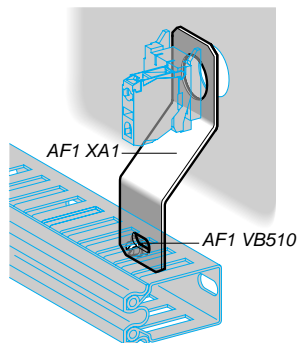
ZB4 BZ011

Flush mounting kit

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

Cable ducting support

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



(1) Body/fixing collar ZB4 BZ009, required for mounting, must be ordered separately, see page 43.

Control and signalling units Ø 22

Harmony® XB4, metal

Accessories for illuminated pushbuttons: bulbs



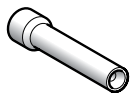
DL1 CJO



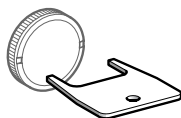
DL1 CE



DL1 CF



XBF X13



ZBZ 8

Bulbs with BA 9s base fitting and associated accessories

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

Control and signalling units Ø 22

Harmony® XB4, metal

Accessories for pushbuttons: keys, module interface

Replacement keys

Description	Key number	Reference	Weight kg
For Emergency Stop key release heads and key switches			
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



ZBG 455P

For booted selector switches

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

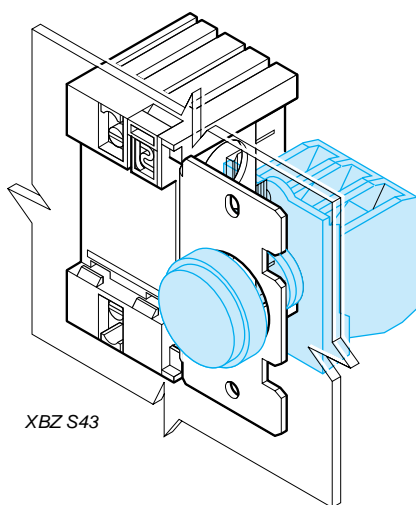
Accessory for key switches

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

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

Panel fixing, in conjunction with a Harmony pushbutton or switch

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

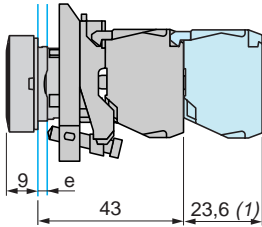


XBZ S43

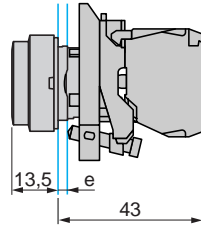
▲ Available: 4th quarter 2006.

Pushbuttons, spring return

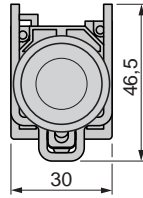
XB4 BA●●



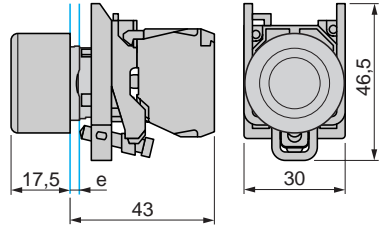
XB4 BL●●



Common face view



XB4 BP●●



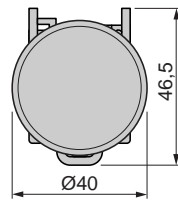
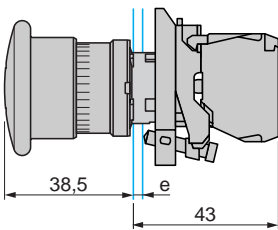
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Mushroom head pushbuttons, spring return

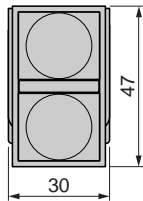
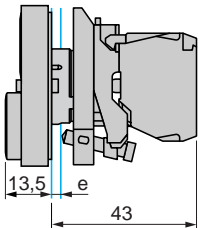
XB4 BC21



e: clamping thickness: 1 to 6 mm

Double-headed pushbuttons, spring return

XB4 BL●45

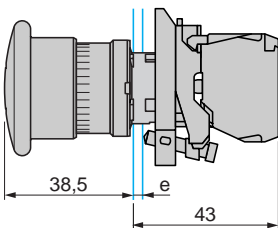


e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head pushbuttons, trigger action and mechanical latching

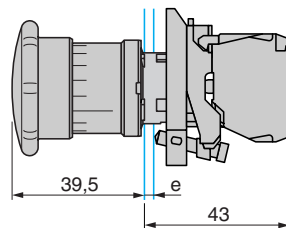
Push-pull

XB4 BT845



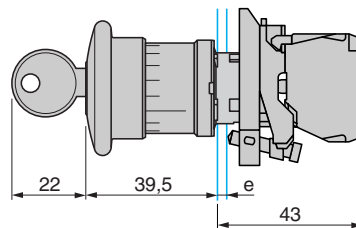
Turn to release

XB4 BS84441, BS8444, BS8445

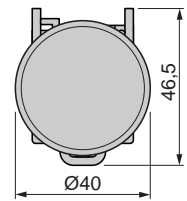


Key release

XB4 BS9445



Common face view



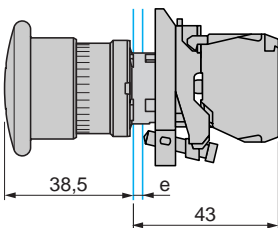
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head pushbuttons, mechanical latching

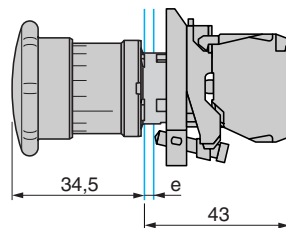
Push-pull

XB4 BT42



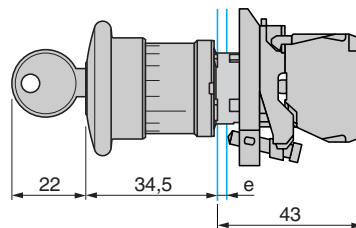
Turn to release

XB4 BS542

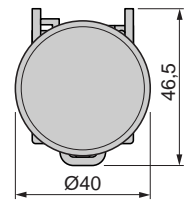


Key release

XB4 BS142



Common face view



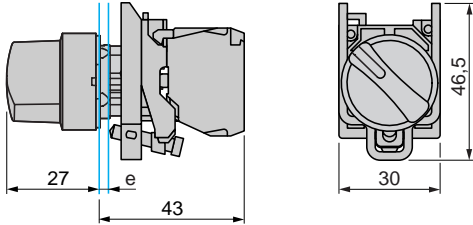
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Selector switches

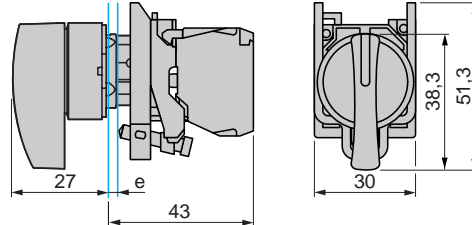
Standard handle operator

XB4 BD●●



Long handle operator

XB4 BJ●●

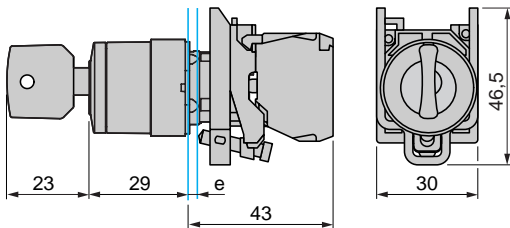


e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Key switches

XB4 BG●●



e: clamping thickness: 1 to 6 mm

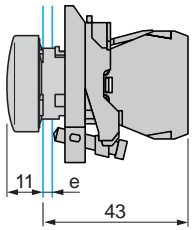
Control and signalling units Ø 22

Harmony® XB4, metal
Pushbuttons, switches and pilot lights:
complete units, XB4 B

Pilot lights

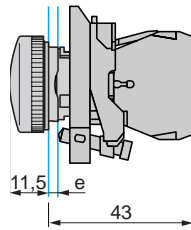
Integral LED

XB4 BVB●, BVG●, BVM●



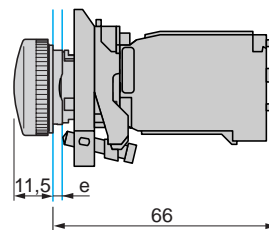
Direct supply

XB4 BV6●

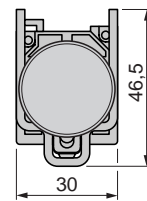


Via integral transformer

XB4 BV3●, BV4●



Common face view



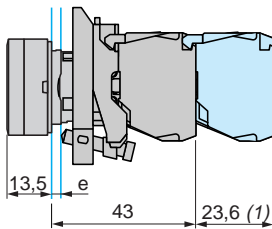
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Illuminated pushbuttons, spring return

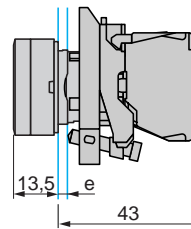
Integral LED

XB4 BWB3●●5



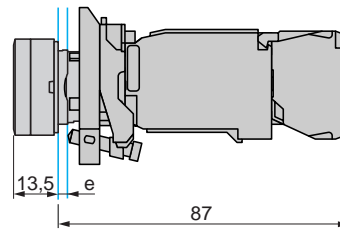
Direct supply

XB4 BW3●65

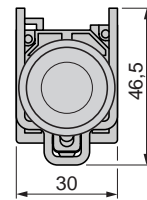


Via integral transformer

XB4 BW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

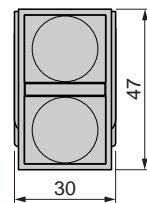
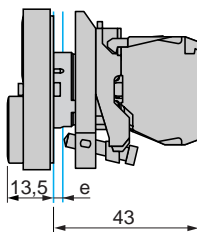
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact

Double-headed pushbuttons with pilot light

Integral LED

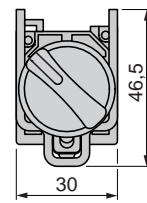
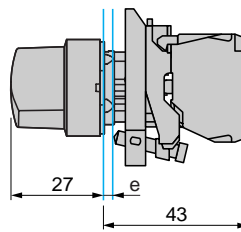
XB4 BW84●5



Illuminated selector switches

Integral LED

XB4 BK12●●5

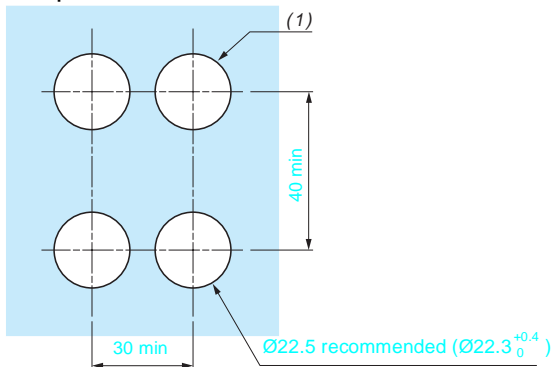


e: clamping thickness: 1 to 6 mm

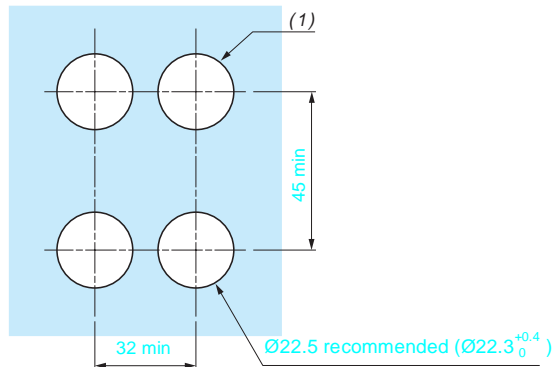
e: clamping thickness: 1 to 6 mm

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

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



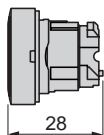
Connection by Faston connectors



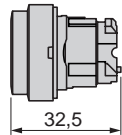
(1) Diameter on finished panel or support.

Heads for spring return pushbuttons

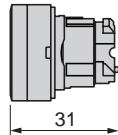
ZB4 BA●, ZB4 BA●●●
ZB4 BA●8



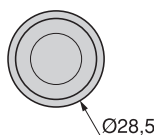
ZB4 BL●, ZB4 BL●●●



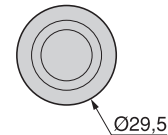
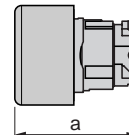
ZB4 BA●4, ZB4 BA●6



Common face view



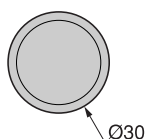
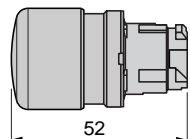
ZB4 BP●●, ZB4 BP●S, ZB4 BP●83, ZB4 BP●



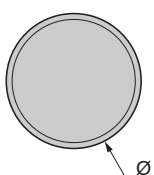
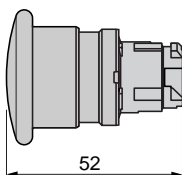
ZB4	a
BP●●	36.5
BP●S	33
BP●83	32
BP●	35

Mushroom heads for spring return pushbuttons

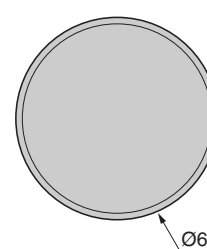
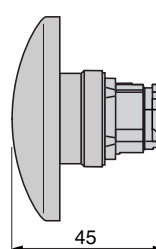
ZB4 BC●4



ZB4 BC●, ZB4 BR●



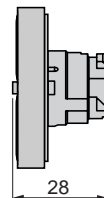
ZB4 BR●16



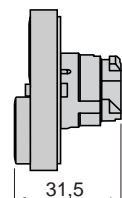
ZB4	Ø
BC●	40
BR●	60

Heads for double-headed, spring return pushbuttons

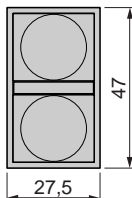
ZB4 BA81●●
ZB4 BA82●●



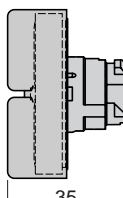
ZB4 BL83●●
ZB4 BL84●●



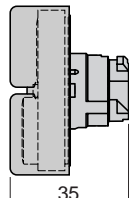
Common face view



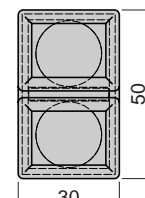
ZB4 BA91●●
ZB4 BA92●●



ZB4 BL93●●
ZB4 BL94●●

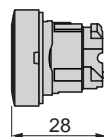


Common face view

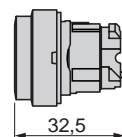


Heads for "push-push to release" pushbuttons

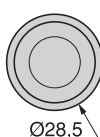
ZB4 BH0●



ZB4 BH●



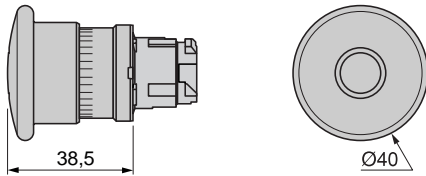
Common face view



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

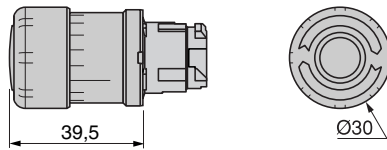
Push-pull

ZB4 BT84

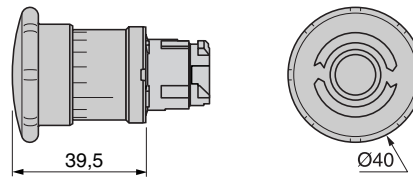


Turn to release

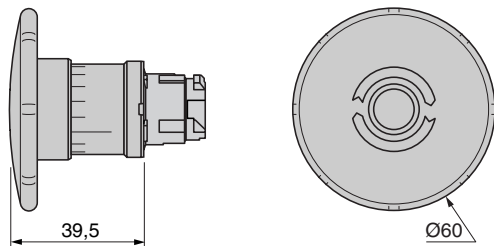
ZB4 BS834



ZB4 BS844

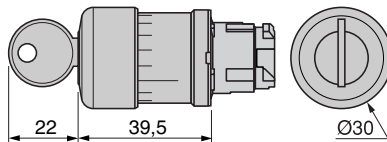


ZB4 BS864

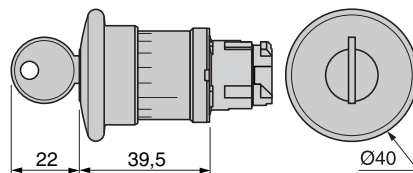


Key release

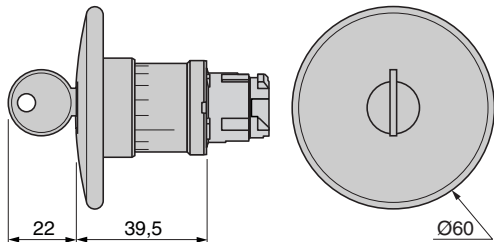
ZB4 BS934



ZB4 BS944



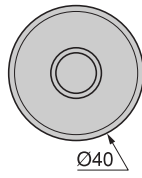
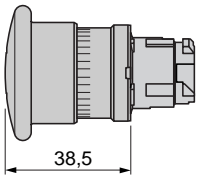
ZB4 BS964



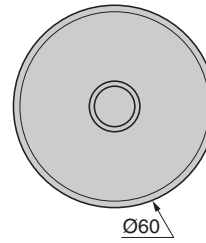
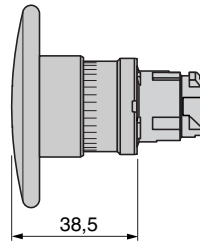
Mushroom heads for Emergency stop mechanical latching pushbuttons

Push-pull

ZB4 BT4

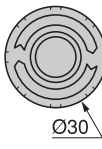
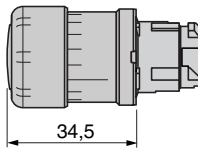


ZB4 BX4

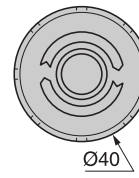
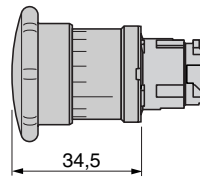


Turn to release

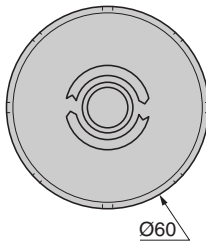
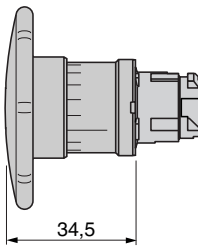
ZB4 BS44



ZB4 BS54

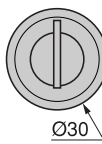
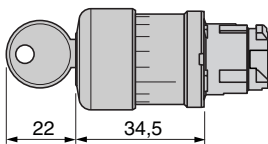


ZB4 BS64

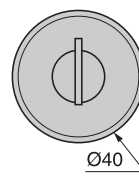
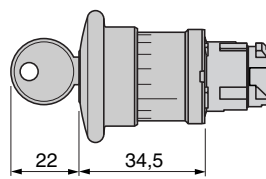


Key release

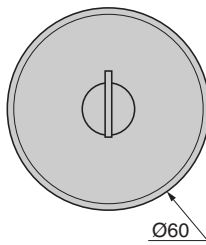
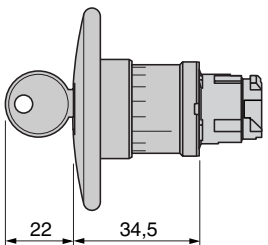
ZB4 BS74



ZB4 BS14



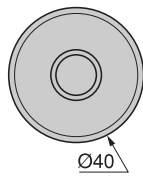
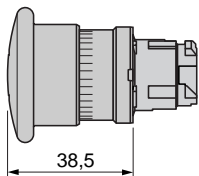
ZB4 BS24



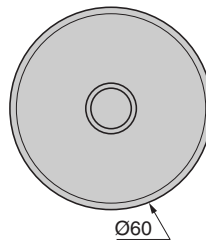
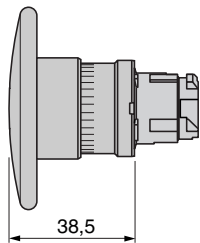
Mushroom heads for latching pushbuttons (1)

Push-pull

ZB4 BT2

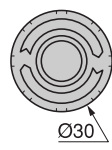
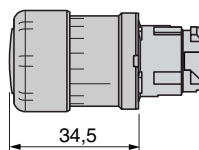


ZB4 BX2

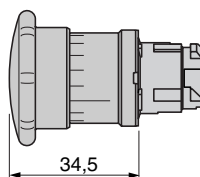


Turn to release

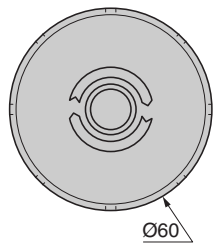
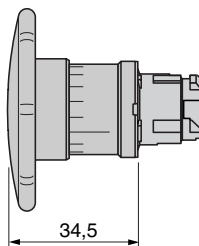
ZB4 BS42



ZB4 BS52, ZB4 BS55

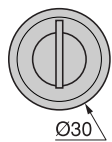
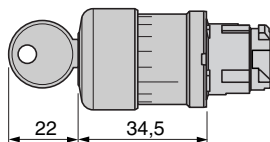


ZB4 BS62

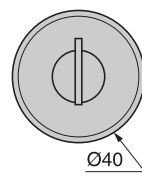
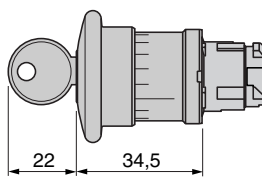


Key release

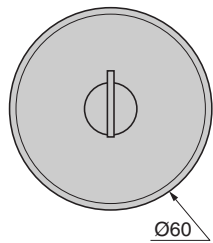
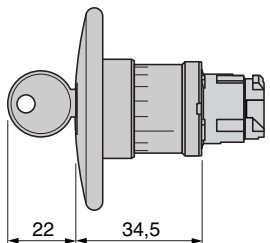
ZB4 BS72



ZB4 BS12



ZB4 BS22



(1) Red mushroom heads for Emergency stop, latching pushbuttons: see pages 66 and 67.

Heads for selector switches

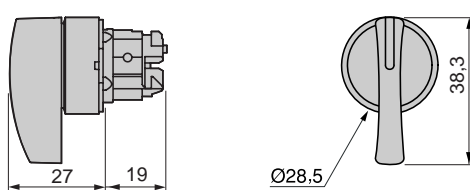
Standard handle operator

ZB4 BD●, ZB4 BD0●M



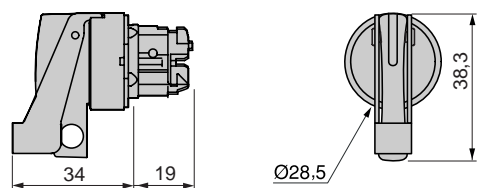
Long handle operator

ZB4 BJ●, ZB4 BD0●M



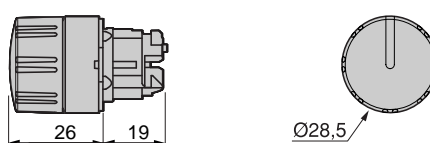
Padlockable long handle operator (6.35 mm shank max.)

ZB4 BJ●9●



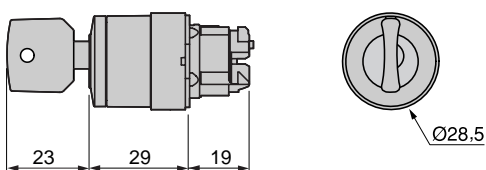
Black knurled knob

ZB4 BD●9



Key switches

ZB4 BG●, ZB4 BG0●, ZB4 BG0●M



Heads for toggle switches

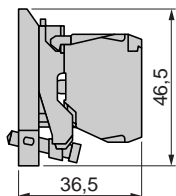
ZB4 BD●8



Bodies for pushbuttons and switches

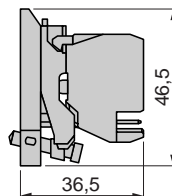
Screw clamp terminal connections

ZB4 BZ10●, ZB4 BZ141



Plug-in connector

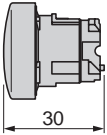
ZB4 BZ10●4, ZB4 BZ1414



Heads for pilot lights, with light source

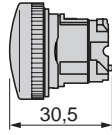
Integral LED

ZB4 BV0●3, ZB4 BV0●3S

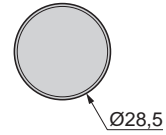


Incandescent, neon or LED

ZB4 BV0●, ZB4 BV0●S



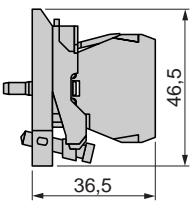
Common face view



Bodies for pilot lights, screw clamp terminal connections

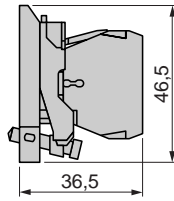
Integral LED

ZB4 BV●●



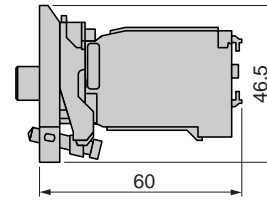
Direct supply, for BA 9s bulb

ZB4 BV6



Via integral transformer, for BA 9s bulb

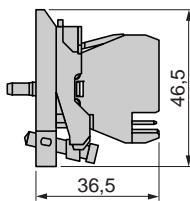
ZB4 BV●, ZB4 BV●D●



Bodies for pilot lights, plug-in connector

Integral LED

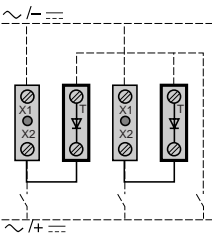
ZB4 BV●●4



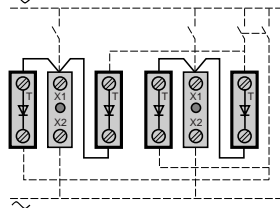
Connections

Blocks for "test light" function

ZBZ G156



ZBZ M156



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

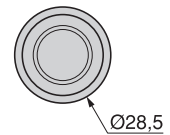
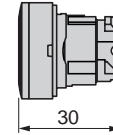
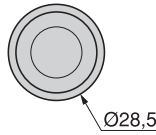
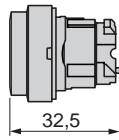
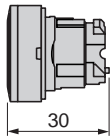
LED

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

ZB4 BW1●3, ZB4 BL●8

Common face view

ZB4 BW9●3

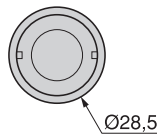
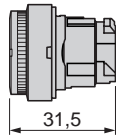
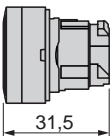


Incandescent or neon

ZB4 BW3●3, ZB4 BW3●S

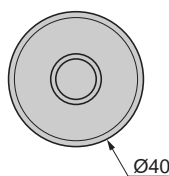
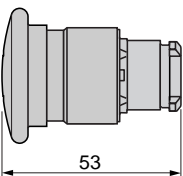
ZB4 BW1●

Common face view



Heads for Ø 40 mm mushroom head illuminated pushbuttons with LED

ZB4 BW4●3, ZB4 BW6●3

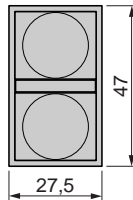
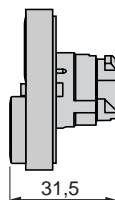
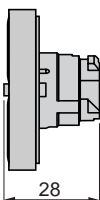


Heads for double-headed pushbuttons with pilot light

ZB4 BW81●●3
ZB4 BW82●●3

ZB4 BW83●●3
ZB4 BW84●●3

Common face view

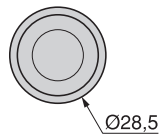
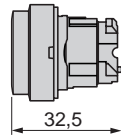
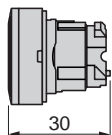


Heads for illuminated "push-push to release" pushbuttons

ZB4 BH0●3

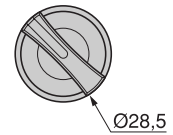
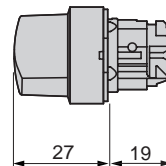
ZB4 BH●3

Common face view



Heads for illuminated selector switches with standard handle

ZB4 BK1●●3



Bodies for illuminated pushbuttons and switches

Screw clamp terminal connections

Integral LED

Direct supply, BA 9s bulb

Via integral transformer, BA 9s bulb

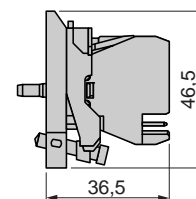
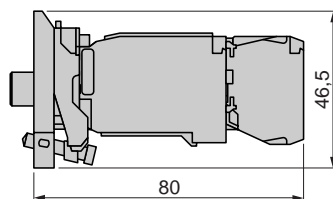
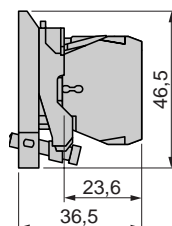
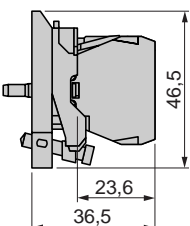
Plug-in connector

ZB4 BW0●●●

ZB4 BW06●

ZB4 BW0●●, BW0D●●

Integral LED
ZB4 BW0●●●4

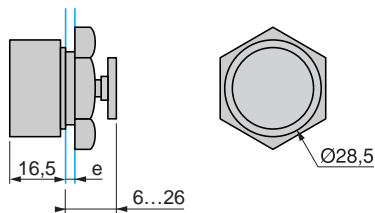


Control and signalling units Ø 22

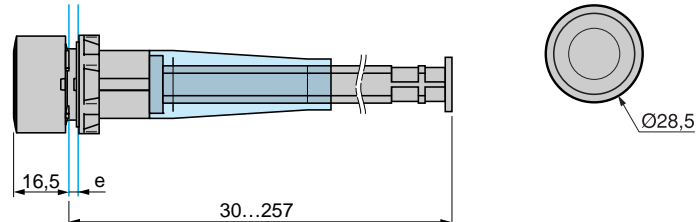
Harmony® XB4, metal
Pushbuttons, switches and pilot lights:
complete units, XB4 B

Manual overload reset buttons

XB4 BA8●●



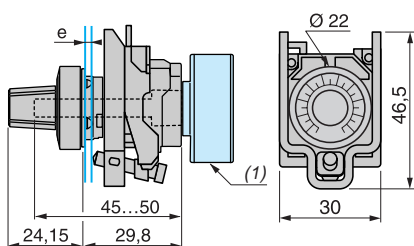
XB4 BA9●●



e: panel thickness 1 to 6 mm

Heads + mounting base for potentiometer

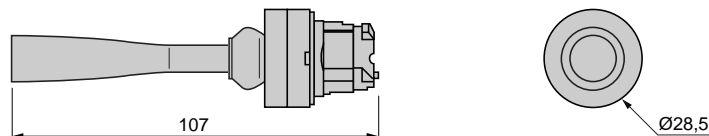
ZB4 BD9●2



(1) Potentiometer not included.

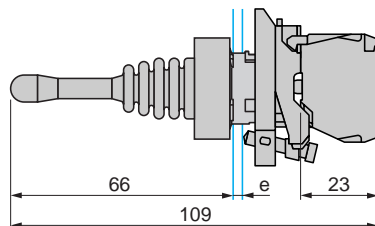
Wobblestick head

ZB4 BB●

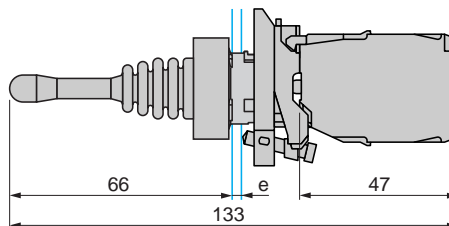


Joystick controllers

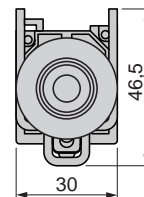
XD4 PA●2



XD4 PA●4



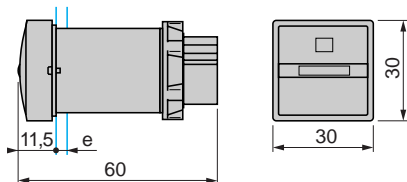
Common face view



e: panel thickness 1 to 6 mm

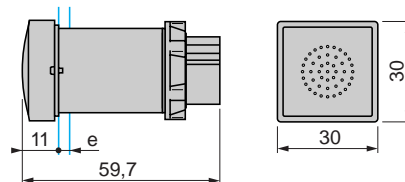
Hour counters

XB5 DS●



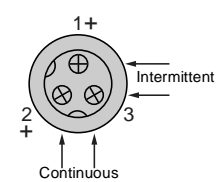
Annunciators

XB5 KS●



Cabling

XB5 KS●

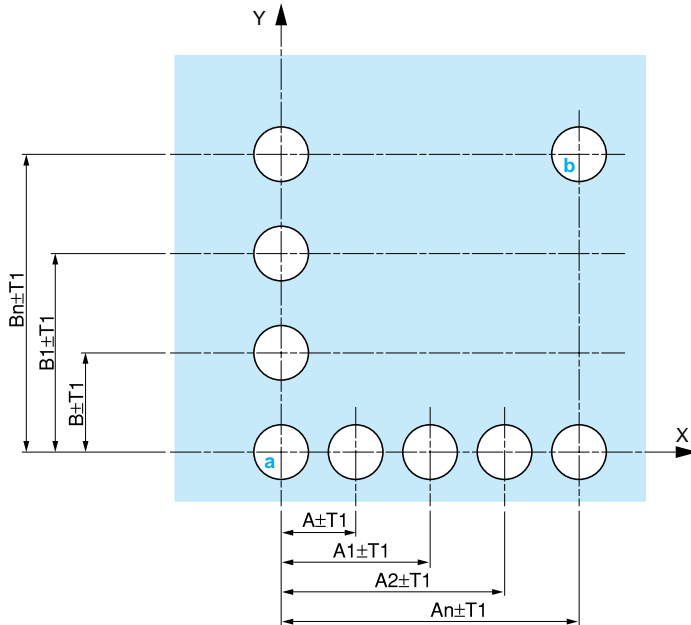


e: panel thickness 1 to 6 mm

Pushbuttons, switches and pilot lights for printed circuit board connection

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

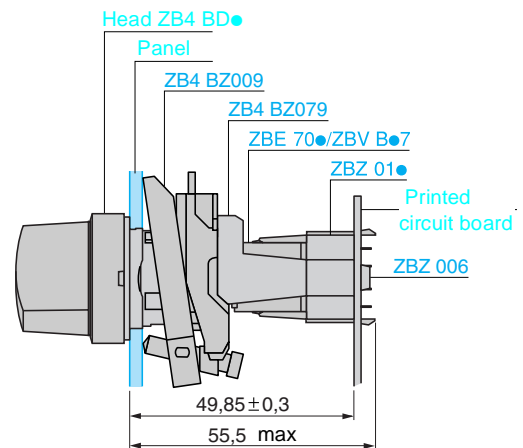
Dimensions in mm



■ Installation precautions:

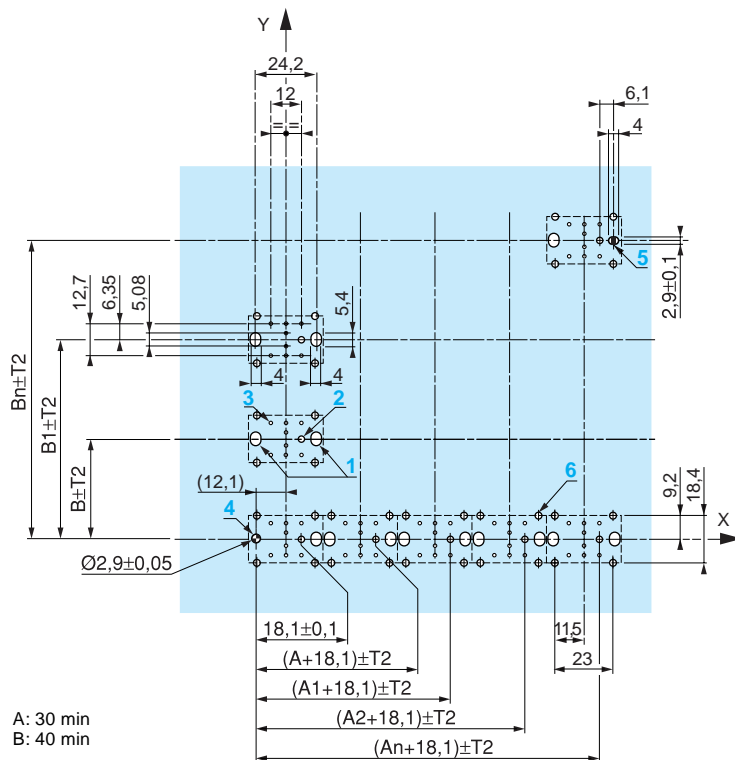
- Minimum thickness of circuit board: 1.6 mm.
- Cut-out diameter: 22.4 mm ± 0.1 mm.
- Orientation of body/fixing collar ZB4 BZ009: ± 2° 30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws: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

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



Printed circuit board drillings (viewed from electrical block side)

Dimensions in mm



A: 30 min
B: 40 min

■ Mounting of adapter (socket) ZBZ 01● :

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

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 holes for centring adapter ZBZ 01●.

General tolerances of the panel and printed circuit board

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

Control and signalling units Ø 22

Harmony® XB5, plastic

Pushbuttons, switches and pilot lights

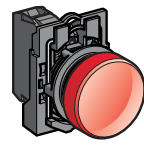
Description

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

Complete units, XB5 A

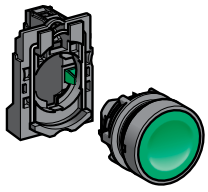


Pushbuttons and switches



Pilot lights

Sub-assemblies, ZB5 A

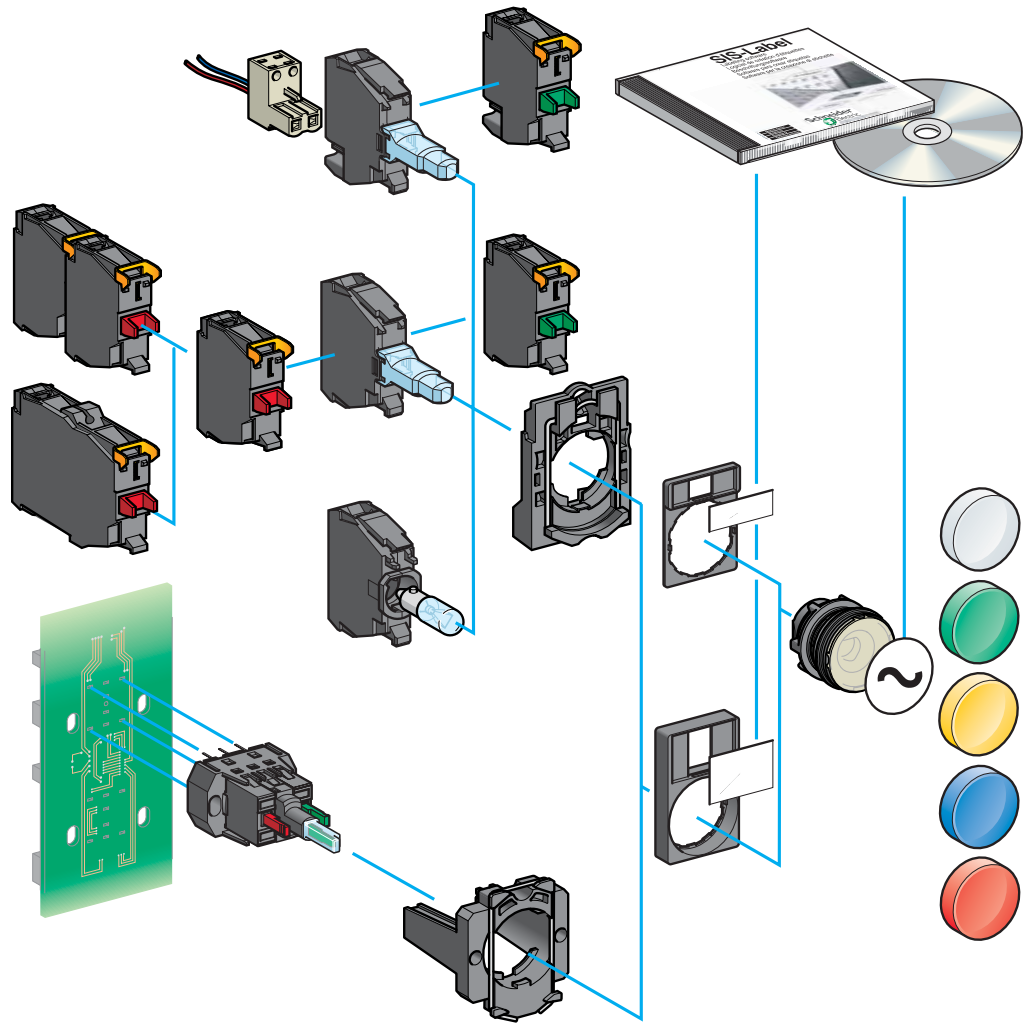


Pushbuttons and switches: body + head sub-assemblies















Pilot lights: body + head sub-assemblies

ZB component parts and accessories








Schematic library




Contact functions (pushbuttons and Emergency stop pushbuttons)

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






Contact functions (selector switches)

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





Signalling functions

		
Pilot light with BA 9s base fitting incandescent bulb	LED pilot light	Pilot light with integral transformer 230 V primary, 6 V secondary BA9s base fitting bulb, incandescent or LED

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

		
Illuminated pushbutton, BA 9s base fitting incandescent bulb N/O + N/C contacts	Illuminated pushbutton with LED N/O + N/C contacts	Illuminated pushbutton with integral transformer 230 V ~ 50/60 Hz primary, 6 V secondary BA9s base fitting bulb, incandescent or LED N/O + N/C contacts
		
Double-headed pushbutton with LED pilot light	Illuminated selector switch 2-position stay put with LED N/O + N/C contacts	

Joystick controller functions

			
2 direction Without spring return	2 direction With spring return	4 direction Without spring return	4 direction With spring return

Control and signalling units Ø 22

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

Complete units

Contact functions

Pushbuttons, spring return



Flush push, unmarked

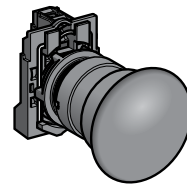
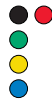
[XB5 AA●1/AA42](#)
see page 88

Flush push, with marking

[XB5 AA3311/AA33●1](#)
see page 92

Projecting push, with marking

[XB5 AL4322](#)
see page 92



Ø 40

Booted flush push

[XB5 AP●1/AP42](#)
see page 91

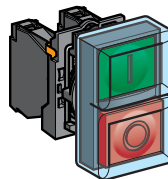
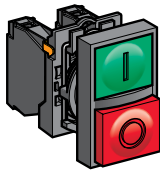
Projecting push, unmarked

[XB5 AL42](#)
see page 90

Mushroom head

[XB5 AC21](#)
see page 98

Double-headed pushbuttons, spring return



Flush push + projecting push

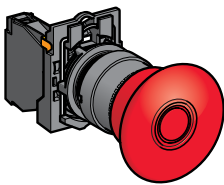
[XB5 AL845](#)
see page 97

Booted flush push + projecting push

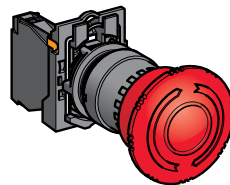
[XB5 AL945](#)
see page 97

Emergency stop mushroom head pushbuttons, Ø 40

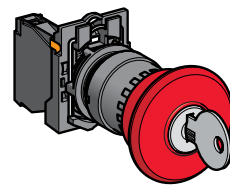
- trigger action and mechanical latching
- or
- mechanical latching only



Ø 40



Ø 40



Ø 40

Push-pull (EN 418/ISO13850)

[XB5 AT845](#)
see page 100

Turn to release (EN 418/ISO13850)

[XB5 AS8●4](#)
see page 100

Key release (EN 418/ISO13850)

[XB5 AS9445](#)
see page 100

Push-pull

[XB5 AT42](#)
see page 101

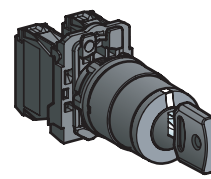
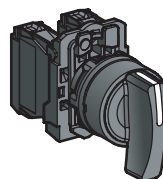
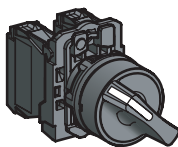
Turn to release

[XB5 AS542](#)
see page 101

Key release

[XB5 AS142](#)
see page 101

Selector switches and key switches



Standard handle, black

[XB5 AD●●](#)
see page 104

Long handle, black

[XB5 AJ●●](#)
see page 108

Key switch

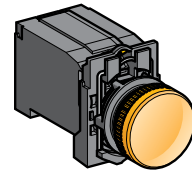
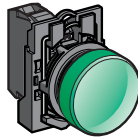
[XB5 AG●●](#)
see page 108

Complete units

(continued)

Pilot lights

Signalling functions



Integral LED

[XB5 AVB●/AVG●/AVM●](#)
see page 110

For bulb with BA 9s base fitting
Direct supply

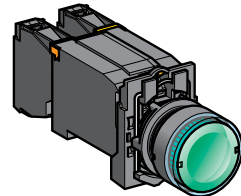
[XB5 AV6●](#)
see page 111

Via integral transformer

[XB5 AV3●/AV4●](#)
see page 111

Combined functions (contact + signalling)

Illuminated pushbuttons, spring return, flush push



Integral LED

[XB5 AW3●B5/AW3●G5/AW3●M5](#)
see page 93

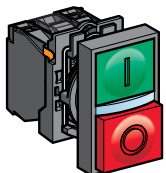
For bulb with BA 9s base fitting
Direct supply

[XB5 AW3●65](#)
see page 95

Via integral transformer

[XB5 AW3●35/AW3●45](#)
see page 95

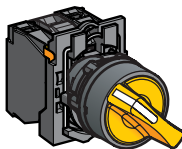
Double-headed pushbuttons, spring return, with pilot light



Integral LED

[XB5 AW84●5](#)
see page 97

Illuminated selector switches, standard handle



Integral LED

[XB5 AK1●●3](#)
see page 107

Control and signalling units Ø 22

Harmony® XB5, plastic

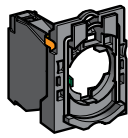
Pushbuttons, switches and pilot lights:
sub-assemblies, ZB5 A

Non illuminated units for user assembly

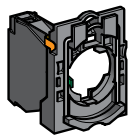
For pushbuttons, spring return, unmarked

Contact functions

Body sub-assemblies



Screw clamp terminals
ZB5 AZ10/AZ141
see page 114



Faston
ZB5 AZ10A3
see page 115

Head sub-assemblies



Flush push without cap/with set of 6 caps
ZB5 AA0/AA9
see page 88

Flush push
ZB5 AA
see page 88

Flush push for insertion of legend
ZB5 AA8
see page 88

Flush push, cap mounted/not mounted
ZB5 CA0/CA
see page 88



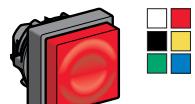
Projecting
ZB5 AL
see page 90



Recessed push
ZB5 AA
see page 89



Booted flush push, for insertion of legend
ZB5 AP/AP3
see page 90



Projecting or recessed push
ZB5 CA/CL
see page 89

For pushbuttons, spring return, with marking

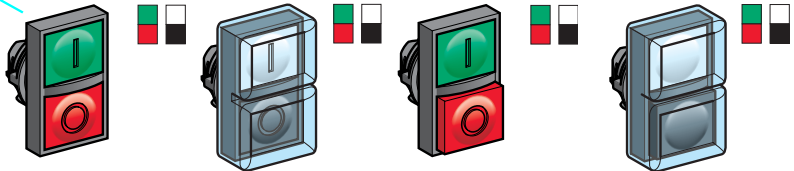


Flush push
ZB5 AA3/AA4
see page 92

Projecting push
ZB5 AL
see page 92

Flush push
ZB5 CA3/CA9
see page 92

For double-headed pushbuttons, spring return



Flush pushes (IP 40/IP 66)
Unmarked/with marking
ZB5 AA81/AA82
see page 96

ZB5 AA91/AA92
see page 96

Flush push + projecting push (IP 40/IP 66)
Unmarked/with marking
ZB5 AL83/AL84
see page 96

ZB5 AL93/AL94
see page 96

For "push-push to release" pushbuttons

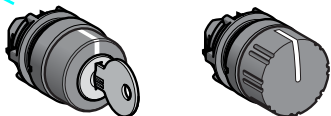


Flush push (caps mounted/not mounted)
ZB5 AH/CH
see page 102

Projecting push
ZB5 AH
see page 102

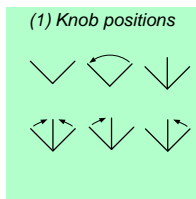
Flush push (caps mounted/not mounted)
ZB5 CH/CH
see page 102

For "push-turn to release" pushbuttons



Key switches
ZB5 AFD
see page 103

Knurled knob (1)
ZB5 AF
see page 103

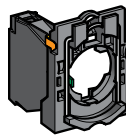


Control and signalling units Ø 22

Harmony® XB5, plastic
Pushbuttons, switches and pilot lights:
sub-assemblies, ZB5 A

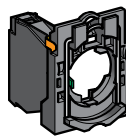
Non illuminated units for user assembly
(continued)

For mushroom head pushbuttons



Screw clamp terminals
ZB5 AZ10/AZ141
see page 114

For mushroom head Emergency stop pushbuttons
■ trigger action and mechanical latching
or
■ mechanical latching only



Faston
ZB5 AZ10/3
see page 115



Key release (EN 418/ISO 13850)
ZB5 AS9/4/AS944D, see page 100

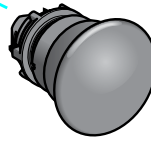
Key release
ZB5 AS/4/AS14D, see page 101

For selector switches and key switches

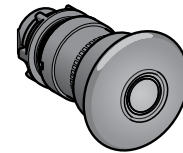
Contact functions (continued)

Bodysub-assemblies

Head sub-assemblies



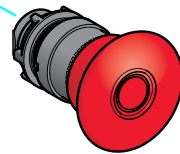
- ●
 - ●
 - ●
 - ●
- Ø 30
Ø 40
Ø 60



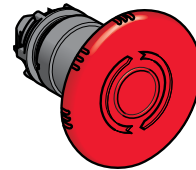
- -
- Ø 30
Ø 40
Ø 60

Spring
ZB5 AC/AR
see page 98

Latching
ZB5 A/2/AS/2/AS55
see page 99



-
- Ø 30
Ø 40
Ø 60



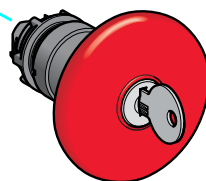
-
- Ø 30
Ø 40
Ø 60

Push-pull (EN 418/ISO 13850)
ZB5 AT84
see page 100

Turn to release (EN 418/ISO 13850)
ZB5 AS8/4
see page 100

Push-pull
ZB5 AT/A/X
see page 101

Turn to release
ZB5 AS44/AS54/AS64
see page 101



-
- Ø 30
Ø 40
Ø 60

Key release (EN 418/ISO 13850)
ZB5 AS9/4/AS944D, see page 100

Key release
ZB5 AS/4/AS14D, see page 101



- ●
- ●
- ●
- ●

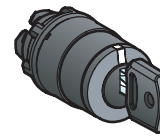


Standard handle (1)
ZB5 AD
see page 104

Long black handle (1)
ZB5 AJ
see page 108

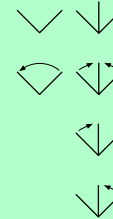


Knurled black knob (1)
ZB5 AD/3
see page 105

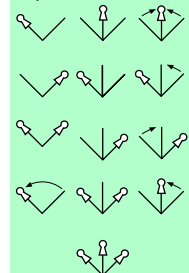


Key switch (2)
ZB5 AG
see page 108

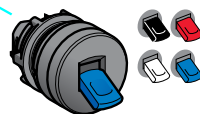
(1) Switch handle and knob positions



(2) Key switch positions
Key withdrawal positions

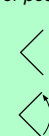


For toggle switches



2-position lever (3)
ZB5 AD/3
see page 105

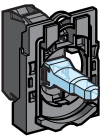
(3) Lever positions



**Pilot lights
for user assembly**

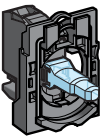
Signalling functions

**Body sub-assemblies
with integral LED**



Protected
LED

Connection: screw clamp terminals
ZB5 AVB/AVG/AVM
see page 122



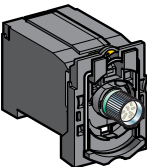
Protected
LED

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

Body sub-assemblies for BA 9s bulb



Direct supply
Connection: screwclamp terminals
ZB5 AV6, see page 123



Via integral transformer
Connection: screw clamp terminals
ZB5 AV0/AV3D/AV5D
see page 123

Head sub-assemblies



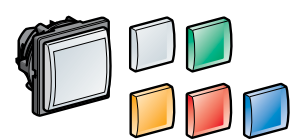
With lens fitted (insertion of legend)
ZB5 AV003/AV003E, see page 110



With lens fitted
ZB5 CV003, see page 110



With 5 lens caps (not fitted) for insertion of legend
ZB5 AV003/AV003E, see page 110



With 5 separate lens caps, not fitted
ZB5 CV003, see page 110

Head sub-assemblies



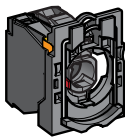
With lens fitted
ZB5 AV0, see page 110

**Illuminated
pushbuttons
for user assembly**

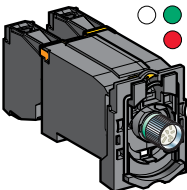
Combined functions (contact + signalling)

**For illuminated pushbuttons,
spring return**

Body sub-assemblies for BA 9s bulb



Direct supply
Screw clamp terminals
ZB5 AW06, see page 120



Via integral transformer
Connection: screw clamp terminals
ZB5 AW03/4/5/3D/5D
see page 120

Head sub-assemblies



Flush
ZB5 AW30/AW30S, see page 94



Projecting
ZB5 AW10/AW10S, see page 94

Control and signalling units Ø 22

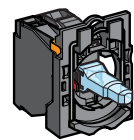
Harmony® XB5, plastic
Pushbuttons, switches and pilot lights:
sub-assemblies, ZB5 A

Illuminated pushbuttons for user assembly

For illuminated pushbuttons, spring return

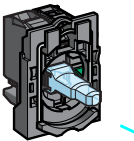
Combined functions (contact + signalling) (continued)

Body sub-assemblies with integral LED



Screw clamp terminals

ZB5 AW0B/AW0G/AW0M
see page 118



Plug-in connector

Please consult your
Regional Sales Office

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

For illuminated, mushroom head pushbuttons latching

For illuminated mushroom head Emergency Stop pushbuttons
■ trigger action and mechanical latching
or
■ mechanical latching only

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

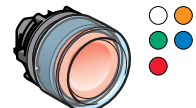
Head sub-assemblies



Flush push
Flush push with illuminated ring
ZB5 AW3³/AW3^{3S}/AW9³
see page 94



Flush push
for insertion of legend
ZB5 AA³
see page 94



Booted flush push
ZB5 AW5³
see page 94



Projecting push
ZB5 AW1³/AW1^{3S}
see page 94



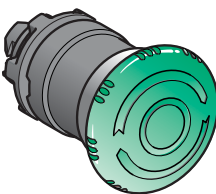
Flush or projecting push
Flush or projecting push for insertion of legend
ZB5 CW3³/CW1³
see page 94



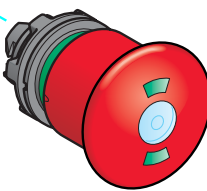
Flush push
Without/With marking
ZB5 AW81³, see page 96
ZB5 AW82³, see page 97



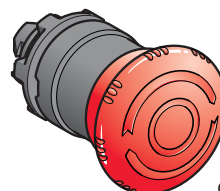
Flush push + projecting push
Without/With marking
ZB5 AW83³, see page 96
ZB5 AW84³, see page 96



Turn to release
ZB5 AW7³, see page 99



Push-pull with mechanical state indicator (EN 418/ISO 13850)
ZB5 AT8643M, see page 100



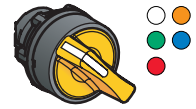
Push-pull
ZB5 AW743, see page 101



Flush or projecting "push-push to release"
ZB5 AH0³/AH³
see page 102



Flush "Push-push to release"
ZB5 CH3³
see page 102



Standard handle (1)
ZB5 AK1³
see page 107

(1) Handle positions



Environment

Protective treatment standard version			"TH"
Ambient air temperature around the device	Storage	°C	- 40... + 70
	Operation	°C	- 25... + 70: LED and neon bulb versions - 25... + 55: incandescent bulb version
Electric shock protection	Conforming to IEC 60536		Class II
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switch) IP 54 (Emergency stop trigger action and mechanical latching pushbuttons with mechanical state indicator)
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
Resistance to high pressure washer		Pa	70 x 10 ⁵ (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			IEC/EN 60947-1, IEC/EN 60947-5-1, IEC/EN 60947-5-4, IEC/EN 60947-5-5, EN 418/ISO 13850 (Emergency stop trigger action and mechanical latching pushbuttons, see page 100), EN 81-1 (Emergency stop trigger action and mechanical latching pushbuttons with mechanical state indicator), see page 100 JIS C 4520, UL 508, CSA C22-2 n° 14
Product certifications	UL Listed, CSA		Standard single contacts with screw clamp terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD5 PA/ZD5 PA: A600; R300 Special contact blocks: □ ZBE 201: A300; Q300 □ ZBE 202: A600; Q600
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300
	BV, RINA, LROS, DNV, GL		Standard single contacts and double contacts with screw clamp terminals:
Terminal referencing	Conforming to EN 50005 and EN 50013		

Characteristics of contact or combined contact and signalling functions (see page 86)

Mechanical characteristics

Contact operation	N/C or N/O		Slow break
Positive operation	Conforming to IEC/EN 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 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 86)

Mechanical characteristics (continued)

Operating torque (to change the electrical state)	Selector switches		N.m	N/O contact: 0.14
	Additional contact only		N.m	N/O contact: 0.05
Mechanical durability (in millions of operating cycles)	Pushbutton	Spring return		5
		Double-headed		1
		Push-push to release		0.5
	Selector switch	Non illuminated		1
		Illuminated		0.5
	Toggle switch			0.5
	Emergency stop pushbutton			0.3 with 4 contacts 0.3 with 2 contacts (Emergency stop with mechanical state indicator)
	Joystick controller			1
Standard contact block only			5	
Low power switching contact block only (dust protected)			0.5	
Vibration resistance	Conforming to IEC 60068-2-6			Frequency: 2 to 500 Hz: 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27			All functions except mushroom head pushbuttons, spring return: <input type="checkbox"/> half sine wave acceleration 11 ms: 50 gn <input type="checkbox"/> half sine wave acceleration 18 ms: 30 gn Mushroom head pushbutton, spring return <input type="checkbox"/> half sine wave acceleration 11 ms: 15 gn

Electrical characteristics

Cabling capacity	Conforming to EN60947-1	mm²	Screw clamp terminals Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screw (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (max 1.2 N.m)
Contact material	Silver alloy (Ag / Ni)		Standard single and double blocks with screw clamp terminals Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)		Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection
Short-circuit protection	Conforming to IEC/EN 60947-5-1	A	Standard single and double blocks with screw clamp terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector: 4 (gG cartridge fuse conforming to IEC 60269-1) Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)
Rated thermal current	Conforming to IEC/EN 60947-5-1	A	Standard single and double blocks with screw clamp terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection : 6
Rated insulation voltage	Conforming to EN60947-1	V	Standard single and double blocks with screw clamp terminals: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston connectors: Ui = 250, degree of pollution 3 Standard blocks for printed circuit board connection: Ui = 250, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN60947-1	kV	Standard single and double blocks with screw clamp terminals: Uimp = 6 Blocks for plug-in connector: Uimp = 4 Standard blocks for printed circuit board connection: Uimp = 4

Characteristics of contact or combined contact and signalling functions (continued) (see page 86)

Electrical characteristics (continued)

Rated operational characteristics

Conforming to IEC/EN 60947-5-1

<p>a.c. supply: utilisation category AC-15</p>		<p>Standard single and double blocks with screw clamp terminals: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A</p> <p>Blocks for plug-in connector: A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A</p> <p>Standard blocks for printed circuit board connection: B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A</p> <p>Special contact blocks: □ ZBE 201: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V) □ ZBE 202: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A</p>								
		<p>d.c. supply: utilisation category DC-13</p> <p>Standard single and double blocks with screw clamp terminals: Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A</p> <p>Joystick controllers XD5 PA/ZD5 PA: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p>Blocks for plug-in connector: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p>Standard blocks for printed circuit board connection: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p>Special contact blocks: □ ZBE 201: Q300: Ue = 125 V and Ie = 0.55 A or Ue = 250 V and Ie = 0.27 A □ ZBE 202: Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A</p>								
<p>Characteristics of special contact blocks for low power switching</p>	<p>VA A V</p>	<p>P max: 12 I max: 0.1 U max: 24</p>								
<p>Electrical durability Conforming to IEC/EN 60947-5-1 appendix C Operating rate 3600 operating cycles/hour. Load factor: 0.5</p>	<p>a.c. supply for 1 million operating cycles utilisation category AC-15</p>	<p>Standard single blocks with screw clamp terminals:</p> <table border="1"> <tr> <td>V</td> <td>24</td> <td>120</td> <td>230</td> </tr> <tr> <td>A</td> <td>4</td> <td>3</td> <td>2</td> </tr> </table>	V	24	120	230	A	4	3	2
		V	24	120	230					
	A	4	3	2						
	<p>Standard double blocks with screw clamp terminals and blocks for plug-in connector:</p> <table border="1"> <tr> <td>V</td> <td>24</td> <td>120</td> <td>230</td> </tr> <tr> <td>A</td> <td>3</td> <td>1.5</td> <td>1</td> </tr> </table>	V	24	120	230	A	3	1.5	1	
V	24	120	230							
A	3	1.5	1							
<p>d.c. supply for 1 million operating cycles utilisation category DC-13</p>	<p>Standard single blocks with screw clamp terminals:</p> <table border="1"> <tr> <td>V</td> <td>24</td> <td>110</td> </tr> <tr> <td>A</td> <td>0.5</td> <td>0.2</td> </tr> </table>	V	24	110	A	0.5	0.2			
	V	24	110							
A	0.5	0.2								
<p>Standard double blocks with screw clamp terminals and blocks for plug-in connector:</p> <table border="1"> <tr> <td>V</td> <td>24</td> <td>110</td> </tr> <tr> <td>A</td> <td>0.4</td> <td>0.15</td> </tr> </table>	V	24	110	A	0.4	0.15				
V	24	110								
A	0.4	0.15								
<p>Electrical reliability Failure rate Conforming to IEC/EN 60947-5-4</p>	<p>In clean environment</p>	<p>Standard blocks: - at 17 V and 5 mA, $\lambda < 10^{-8}$ - at 5 V and 1 mA, $\lambda < 10^{-6}$</p> <p>Special blocks with gold flashed contacts, for low power switching: - at 5 V and 1 mA, $\lambda < 10^{-7}$</p>								
	<p>In dusty environment</p>	<p>Special blocks with gold flashed contacts and dust protection for low power switching only: - at 5 V and 1 mA, $\lambda < 10^{-7}$</p>								

Characteristics of illuminated units (pilot lights)

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

Specific characteristics of single light blocks with integral LED

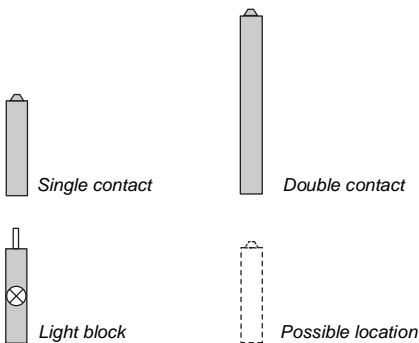
Voltage limits	For rated voltage	V	12 V: 10 to 15 $\overline{\sim}$, 10.2 to 13.8 \sim 24 V: 19.2 to 30 $\overline{\sim}$, 21.6 to 26.4 \sim 24 to 120 V: 20 to 132 $\overline{\sim}$ 48 to 120 V: 40 to 132 \sim 240 V: 195 to 264 \sim
Current consumption	Applicable to all colours	mA	Blocks with $\overline{\sim}$ 12 V supply: 18 Blocks with $\overline{\sim}$ 24 V supply: 18 Blocks with \sim 120 V supply: 14 Blocks with \sim 240 V supply: 14
Service life	At rated voltage and at an ambient temperature of 25 °C	H	100 000
Surge withstand	Conforming to IEC 61000-4-5	kV	1
Resistance to fast transients	Conforming to IEC 61000-4-4	kV	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	V/m	10
Resistance to electrostatic discharges	Conforming to IEC 61000-4-2	kV	8: in free air, on insulating parts 6: on contact, on metal parts
Direct parallel connection across inductive load E.g.: contactor coil or solenoid	Maximum power of load	VA	For high power applications (≥ 30 VA), a ZBZ V LED suppressor must be connected across the light block terminals (see page 121)
Electromagnetic emission	Conforming to IEC 55011		Class B

Specific characteristics

Fixing nut			
Head tightening torque		N.m	2.2 (± 0.2)
Hour counters and annunciators			
Voltage limits	Hour counter and annunciator	V	$\pm 10\%$ of the nominal voltage
Current consumption	Hour counter	mA	XB5 DSB: 7 to 15 XB5 DSG: 8 XB5 DSM: 8
	Annunciator	mA	5

Maximum recommended configurations guaranteeing achievement of catalogue characteristics

Unit type (complete units XB5 A, heads ZB5 A)	Pushbuttons, spring return XB5 AA●, ZB5 AA●, XB5 AC●, ZB5 BC● XB5 AL●, ZB5 AL● XB5 AP●, ZB5 AP● ZB5 AR●	Double-headed pushbuttons XB5 BL●45, ZB5 AL8●, ZB5 AA8●, ZB5 AA9●, ZB5 AL9●	Illuminated pushbuttons XB5 AW●, ZB5 AW● Double-headed illuminated pushbuttons XB5 BW84●, ZB5 AW8●●●●●3																						
Solution using single contacts																									
Solution using single and double contacts																									
Maximum recommended configurations	<table border="1"> <tr><td>Single contacts</td><td>9</td></tr> <tr><td>Double contacts</td><td>3</td></tr> <tr><td>+ single contacts</td><td>+</td></tr> <tr><td>Light block</td><td>-</td></tr> </table>	Single contacts	9	Double contacts	3	+ single contacts	+	Light block	-	<table border="1"> <tr><td>Double contacts</td><td>6</td></tr> <tr><td>+ single contacts</td><td>2</td></tr> <tr><td>Light block</td><td>-</td></tr> </table>	Double contacts	6	+ single contacts	2	Light block	-	<table border="1"> <tr><td>Single contacts</td><td>6</td></tr> <tr><td>Double contacts</td><td>2</td></tr> <tr><td>+ single contacts</td><td>+</td></tr> <tr><td>Light block</td><td>1</td></tr> </table>	Single contacts	6	Double contacts	2	+ single contacts	+	Light block	1
Single contacts	9																								
Double contacts	3																								
+ single contacts	+																								
Light block	-																								
Double contacts	6																								
+ single contacts	2																								
Light block	-																								
Single contacts	6																								
Double contacts	2																								
+ single contacts	+																								
Light block	1																								



Emergency Stop XB5 AT●, ZB5 AT●, XB5 AS●, ZB5 AS●		Selector switches ■ Standard handle XB5 BD●, ZB5 AD●, ■ Long handle XB5 BJ●, ZB5 AJ●, ■ Knurled knob ZB5 AD●9, ■ Key switch XB5 BG●, ZB5 AG●				Illuminated selector switches with standard handle XB5 AK●, ZB5 AK● Illuminated Emergency Stop ZB5 AT8643M, ZB5 AW743	Toggle switches ZB5 AD●8 Pushbuttons, push-turn to release, knurled ZB5 AF●, or key-operated ZB5 FAD●	Pushbuttons, push-push ZB5 AH●	Illuminated pushbuttons, push-push ZB5 AH●3
4	4	5	4	6	4	6	3	2	
2	1	2	1	2	2	3	-	-	
+	+	+	+	+	+	+	-	-	
0	2	1	2	2	0	0	-	-	
-	-	-	-	-	1	-	-	1	

Sequence of contacts fitted to selector switch bodies


Unit type		Selector switches														
		2-position			3-position											
Push	Position	315°		45°		315°		0°		45°						
		Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom					
		Location		Location		Location		Location		Location						
		State		State		State		State		State						
Contacts		N/O		N/O		N/O		N/O		N/O						
		N/C		N/C		N/C		N/C		N/C						
		G	C	D	G	C	D	G	C	D	G	C	D			
		0	0	0	1	1	1	1	1	0	0	0	0	0	1	1
		□	□	□	■	■	■	■	■	□	□	□	□	□	■	■
		■	■	■	□	□	□	□	□	■	■	■	■	■	□	□

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





Assembly of other products using:
body/contact assemblies: see page 114
accessories: see pages 124 and 128

Pushbuttons with flush push ⁽¹⁾



Screw clamp terminal connections

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight kg
		N/O	N/C			
Complete units						
	Flush	1	-	Black	XB5 AA21 (ZB5 AZ101 + ZB5 AA2)	0.037
				Green	XB5 AA31 (ZB5 AZ101 + ZB5 AA3)	0.037
				Yellow	XB5 AA51 (ZB5 AZ101 + ZB5 AA5)	0.037
		Blue	XB5 AA61 (ZB5 AZ101 + ZB5 AA6)	0.037		
		-	1	Red	XB5 AA42 (ZB5 AZ102 + ZB5 AA4)	0.037

Heads only, circular

	Without cap ⁽²⁾	-	ZB5 AA0	0.022
	Flush, with set of 6 coloured caps	6 colours ⁽³⁾	ZB5 AA9	0.027
	Flush	White	ZB5 AA1	0.018
		Black	ZB5 AA2	0.018
		Green	ZB5 AA3	0.018
		Red	ZB5 AA4	0.018
		Yellow	ZB5 AA5	0.018
		Blue	ZB5 AA6	0.018
		Grey	ZB5 AA8	0.018
		White	ZB5 AA18	0.018
	Flush (high bezel)	Green	ZB5 AA38	0.018
		Red	ZB5 AA48	0.018
		Yellow	ZB5 AA58	0.018
		Blue	ZB5 AA68	0.018
		White	ZB5 AA14	0.020
		Black	ZB5 AA24	0.020
		Green	ZB5 AA34	0.020
		Red	ZB5 AA44	0.020
Yellow	ZB5 AA54	0.020		
Blue	ZB5 AA64	0.020		

Heads only, square

	Without cap ⁽²⁾	-	ZB5 CA0	0.022
	Flush	White	ZB5 CA1	0.019
		Black	ZB5 CA2	0.019
		Green	ZB5 CA3	0.019
		Red	ZB5 CA4	0.019
		Yellow	ZB5 CA5	0.019
		Blue	ZB5 CA6	0.019

⁽¹⁾ Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

⁽²⁾ Coloured cap to be ordered separately: see page 124.

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

⁽⁴⁾ For legend ordering information, see page 128.



Assembly of other products using:
body/contact assemblies: see page 114
accessories: see pages 124 and 128




ZB5 AA16

Pushbuttons with recessed push ⁽¹⁾

High guard

Shape of head	Type of push	Colour	Reference	Weight kg
	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



ZB5 CA16

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.


Assembly of other products using:
body/contact assemblies: see page 114
accessories: see pages 124 and 128

Pushbuttons with projecting push (1)

Screw clamp terminal connections

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
						kg
		N/O	N/C			


Complete units

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
	Projecting	–	1	Red	XB5 AL42 (ZB5 AZ102 + ZB5 AL4)	0.038

Heads only, circular

Shape of head	Type of push	Colour of push	Reference	Weight
	Projecting	White	ZB5 AL1	0.019
		Black	ZB5 AL2	0.019
		Green	ZB5 AL3	0.019
		Red	ZB5 AL4	0.019
		Yellow	ZB5 AL5	0.019
		Blue	ZB5 AL6	0.019

Heads only, square

Shape of head	Type of push	Colour of push	Reference	Weight
	Projecting	White	ZB5 CL1	0.021
		Black	ZB5 CL2	0.021
		Green	ZB5 CL3	0.021
		Red	ZB5 CL4	0.021
		Yellow	ZB5 CL5	0.021
		Blue	ZB5 CL6	0.021

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.



XB5 AL42



ZB5 AL3



ZB5 CL1

Assembly of other products using:
body/contact assemblies: see page 114
combined sub-assemblies: see page 118
accessories: see page 128

Pushbuttons with booted head (1)





Screw clamp terminal connections

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
						kg
		N/O	N/C			

Complete units

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
	Booted, clear silicone (colour of push unobscured)	1	-	Black	XB5 AP21 (ZB5 AZ101 + ZB5 AP2)	0.039
				Green	XB5 AP31 (ZB5 AZ101 + ZB5 AP3)	0.039
				Yellow	XB5 AP51 (ZB5 AZ101 + ZB5 AP5)	0.039
				Blue	XB5 AP61 (ZB5 AZ101 + ZB5 AP6)	0.039
				Red	XB5 AP42 (ZB5 AZ102 + ZB5 AP4)	0.039
		-	1			

Heads only

Shape of head	Type of push	Colour of push	Reference	Weight
	Flush, booted (clear), for insertion of legend (2) (colour of push unobscured)	White	ZB5 AP18	0.023
		Green	ZB5 AP38	0.023
		Red	ZB5 AP48	0.023
		Yellow	ZB5 AP58	0.023
		Blue	ZB5 AP68	0.023
	Flush, booted (clear), integral boot (colour of push unobscured)	White	ZB5 AP183	0.010
		Green	ZB5 AP383	0.010
		Red	ZB5 AP483	0.010
		Yellow	ZB5 AP583	0.010
		Blue	ZB5 AP683	0.010
	Projecting, booted (clear silicone) (colour of push unobscured)	White	ZB5 AP1	0.021
		Black	ZB5 AP2	0.021
		Green	ZB5 AP3	0.021
		Red	ZB5 AP4	0.021
		Yellow	ZB5 AP5	0.021
		Blue	ZB5 AP6	0.021
	Projecting, booted (coloured silicone) can be replaced without dismantling the head Compatible with legend holder	White	ZB5 AP1S	0.014
		Black	ZB5 AP2S	0.014
		Green	ZB5 AP3S	0.014
		Red	ZB5 AP4S	0.014
		Yellow	ZB5 AP5S	0.014
		Blue	ZB5 AP6S	0.014

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

(2) For legend ordering information, see page 128.

563467



XB5 AP51

108499



ZB5 AP183

110287



ZB5 AP4

103846_1



ZB5 AP2S

Assembly of other products using:
body/contact assemblies: see page 114
accessories: see pages 124 and 128



XB5 AA4322



ZB5 AA331



ZB5 AA432





ZB5 CA432








ZB5 AL232

Pushbuttons with flush or projecting push (1)




Screw clamp terminal connections

Shape of head	Type of push	Type of contact	Marking Text (colour)	Colour of push	Reference	Weight kg
		 N/O				
		 N/C				


Complete units

	Flush	1	–	"I" (white)	Green	XB5 AA3311 (ZB5 AZ101 + ZB5 AA331)	0.037
	Flush	–	1	"O" (white)	Red	XB5 AA4322 (ZB5 AZ102 + ZB5 AA432)	0.037
	Projecting	–	1	"O" (white)	Red	XB5 AL4322 ▲ (ZB5 AZ102 + ZB5 AL432)	0.037
	Flush (2)	1	–	↑ (black)	White	XB5 AA3341 (ZB5 AZ101 + ZB5 AA334)	0.037
	Flush (2)	1	–	↑ (white)	Black	XB5 AA3351 (ZB5 AZ101 + ZB5 AA335)	0.037


Heads only, circular

	Flush			"I" (white)	Green	ZB5 AA331	0.018
				"I" (black)	White	ZB5 AA131	0.018
				"II" (white)	Green	ZB5 AA336	0.018
				"II" (black)	White	ZB5 AA136	0.018
				"START" (white)	Green	ZB5 AA333	0.018
				"START" (black)	White	ZB5 AA133	0.018
				"ON" (white)	Green	ZB5 AA341	0.018
				"ON" (black)	White	ZB5 AA141	0.018
				"MARCHE" (white)	Green	ZB5 AA342	0.018
				"MARCHE" (black)	White	ZB5 AA142	0.018
				 (white)	Black	ZB5 AA245	0.018
				 (black)	White	ZB5 AA145	0.018
				"O" (white)	Red	ZB5 AA432	0.018
					Black	ZB5 AA232	0.018
				"ARRET" (white)	Red	ZB5 AA433	0.018
					Black	ZB5 AA233	0.018
				"STOP" (white)	Red	ZB5 AA434	0.018
					Black	ZB5 AA234	0.018
				"OFF" (white)	Red	ZB5 AA435	0.018
					Black	ZB5 AA235	0.018
				UP (black)	White	ZB5 AA343	0.018
				Down (white)	Black	ZB5 AA344	0.018
				↑ (white) (2)	Black	ZB5 AA335	0.018
				↑ (black) (2)	White	ZB5 AA334	0.018

Heads only, square

	Flush (2)			"I" (white)	Green	ZB5 CA331	0.019
				"O" (white)	Red	ZB5 CA432	0.019
				"+" (white)	Black	ZB5 CA2934	0.019
				↑ (white)	Black	ZB5 CA2912	0.019
				"R" (white)	Blue	ZB5 CA6939	0.019

Heads only, circular

	Projecting (2)			"O" (white)	Red	ZB5 AL432	0.019
					Black	ZB5 AL232	0.019
				"ARRET" (white)	Red	ZB5 AL433	0.019
					Black	ZB5 AL233	0.019
				"STOP" (white)	Red	ZB5 AL434	0.019
					Black	ZB5 AL234	0.019
				"OFF" (white)	Red	ZB5 AL435	0.019
					Black	ZB5 AL235	0.019

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

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

▲ Available:
3rd quarter 2006.

General :
pages 74 to 81



Characteristics :
pages 82 to 85

Dimensions :
pages 138 to 149

Assembly of other products using:
body/contact assemblies: see page 114
accessories: see pages 124 and 128

Illuminated pushbuttons with flush push (1)

Screw clamp terminal connections

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





Complete units - With plain lens

Shape of head	Description	Type of contact	Supply voltage	Colour of push	Reference	Weight		
 XB5 AW31B5	Integral LED 	1	1	~ 24	White	XB5 AW31B5 (ZB5 AW0B15 + ZB5 AW313)	0.056	
					Green	XB5 AW33B5 (ZB5 AW0B35 + ZB5 AW333)	0.056	
 XB5 AW34G5					Red	XB5 AW34B5 (ZB5 AW0B45 + ZB5 AW343)	0.056	
					Orange	XB5 AW35B5 (ZB5 AW0B55 + ZB5 AW353)	0.056	
					Blue	XB5 AW36B5 (ZB5 AW0B65 + ZB5 AW363)	0.056	
					~ 48...120	White	XB5 AW31G5 (ZB5 AW0G15 + ZB5 AW313)	0.056
					Green	XB5 AW33G5 (ZB5 AW0G35 + ZB5 AW333)	0.056	
					Red	XB5 AW34G5 (ZB5 AW0G45 + ZB5 AW343)	0.056	
					Orange	XB5 AW35G5 (ZB5 AW0G55 + ZB5 AW353)	0.056	
					Blue	XB5 AW36G5 (ZB5 AW0G65 + ZB5 AW363)	0.056	
					~ 230...240	White	XB5 AW31M5 (ZB5 AW0M15 + ZB5 AW313)	0.056
					Green	XB5 AW33M5 (ZB5 AW0M35 + ZB5 AW333)	0.056	
					Red	XB5 AW34M5 (ZB5 AW0M45 + ZB5 AW343)	0.056	
					Orange	XB5 AW35M5 (ZB5 AW0M55 + ZB5 AW353)	0.056	
Blue	XB5 AW36M5 (ZB5 AW0M65 + ZB5 AW363)	0.056						


(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

Assembly of other products using:
combined sub-assemblies: see page 120
accessories: see page 128


Illuminated pushbuttons with flush push ⁽¹⁾

Shape of head	Type of push	Colour	Reference	Weight (kg)
Heads only, circular (2) - With plain lens				
 Protected LED	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
 Protected LED	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
 Protected LED	Flush with clear boot	White	ZB5 AW513	0.019
		Green	ZB5 AW533	0.019
		Red	ZB5 AW543	0.019
		Orange	ZB5 AW553	0.019
		Blue	ZB5 AW563	0.019
 Protected LED	Flush for insertion of legend ⁽³⁾	White	ZB5 AA18	0.018
		Green	ZB5 AA38	0.018
		Red	ZB5 AA48	0.018
		Orange	ZB5 AA58	0.018
		Blue	ZB5 AA68	0.018




Heads only, circular (2) - With grooved lens ⁽⁴⁾

 Protected LED	Flush	White	ZB5 AW313S	0.017
		Green	ZB5 AW333S	0.017
		Red	ZB5 AW343S	0.017
		Orange	ZB5 AW353S	0.017
		Blue	ZB5 AW363S	0.017

Heads only, square (2)

 Protected LED	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
 Protected LED	Flush (high guard)	White	ZB5 CW3136	0.014
		Green	ZB5 CW3336	0.014
		Red	ZB5 CW3436	0.014
		Orange	ZB5 CW3536	0.014
		Blue	ZB5 CW3636	0.014

Illuminated pushbuttons with projecting push ⁽¹⁾

Shape of head	Type of push	Colour	Reference	Weight (kg)
Heads only, circular (2) - With plain lens				
 Protected LED	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
 Protected LED	Projecting	White	ZB5 AW113S	0.017
		Green	ZB5 AW133S	0.017
		Red	ZB5 AW143S	0.017
		Orange	ZB5 AW153S	0.017
		Blue	ZB5 AW163S	0.017
Heads only, square (2)				
 Protected LED	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 86.

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

(3) For legend ordering information, see page 128.



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







Assembly of other products using:
combined sub-assemblies: see page 120
accessories: see page 128

Illuminated pushbuttons with flush push (1)


Screw clamp terminal connections

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

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	XB5 AW3165 (ZB5 AW065 + ZB5 AW31)	0.057					
						Green	XB5 AW3365 (ZB5 AW065 + ZB5 AW33)	0.057					
						Red	XB5 AW3465 (ZB5 AW065 + ZB5 AW34)	0.057					
						Orange	XB5 AW3565 (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	XB5 AW3135 (ZB5 AW035 + ZB5 AW31)	0.128					
						Green	XB5 AW3335 (ZB5 AW035 + ZB5 AW33)	0.128					
						Red	XB5 AW3435 (ZB5 AW035 + ZB5 AW34)	0.128					
						Orange	XB5 AW3535 (ZB5 AW035 + ZB5 AW35)	0.128					
										~ 230 50 Hz	White	XB5 AW3145 (ZB5 AW045 + ZB5 AW31)	0.129
										~ 220...240 60 Hz	Green	XB5 AW3345 (ZB5 AW045 + ZB5 AW33)	0.129
										Red	XB5 AW3445 (ZB5 AW045 + ZB5 AW34)	0.129	
										Orange	XB5 AW3545 (ZB5 AW045 + ZB5 AW35)	0.129	

Heads only (2) - With plain lens

 814569 ZB5 AW33		Flush	White	ZB5 AW31	0,018
			Green	ZB5 AW33	0,018
			Red	ZB5 AW34	0,018
			Orange	ZB5 AW35	0,018
			Blue	ZB5 AW36	0,018
			Clear	ZB5 AW37	0,018

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

	Flush	White	ZB5 AW31S	0.018
		Green	ZB5 AW33S	0.018
		Red	ZB5 AW34S	0.018
		Orange	ZB5 AW35S	0.018
		Blue	ZB5 AW36S	0.018
		Clear	ZB5 AW37S	0.018

Illuminated pushbuttons with projecting push (1)

Heads only (2) - With plain lens

	Projecting	White	ZB5 AW11	0.017
		Green	ZB5 AW13	0.017
		Red	ZB5 AW14	0.017
		Orange	ZB5 AW15	0.017
		Blue	ZB5 AW16	0.017
		Clear	ZB5 AW17	0.017

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

	Projecting	White	ZB5 AW11S	0.018
		Green	ZB5 AW13S	0.018
		Red	ZB5 AW14S	0.018
		Orange	ZB5 AW15S	0.018
		Blue	ZB5 AW16S	0.018
		Clear	ZB5 AW17S	0.018

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

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

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

Assembly of other products using:
combined sub-assemblies: see page 118
accessories: see pages 125 and 128

81440



ZB5 AL8334

81442



ZB5 AL9334

110421



ZB5 AW812743

814567



ZB5 AW833743

Double-headed pushbuttons (1)

Shape of head	Description	Colour of pushes	Degree of protection	Reference	Weight kg
Heads only					
	2 flush pushes	Green Red	IP 40	ZB5 AA8134	0.022
			IP 66	ZB5 AA9134	0.027
		White Black	IP 40	ZB5 AA8112	0.022
			IP 66	ZB5 AA9112	0.027
	1 flush push 1 projecting push	Green Red	IP 40	ZB5 AL8334	0.021
			IP 66	ZB5 AL9334	0.026
		White Black	IP 40	ZB5 AL8312	0.021
			IP 66	ZB5 AL9312	0.026

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

Shape of head	Description	Colour of pushes	Colour of pilot light	Reference	Weight kg
Heads only (3)					
	1 flush push 1 central pilot light 1 flush push	Black	Clear (4)	ZB5 AW812743	0.022
		Red	Clear (4)	ZB5 AW813743	0.022
		Green Red	Clear (4)	ZB5 AW811723	0.022
	1 flush push 1 central pilot light 1 projecting push	White Black	Clear (4)	ZB5 AW812743	0.021
		Black Red	Clear (4)	ZB5 AW833743	0.021
		Green Red	Clear (4)	ZB5 AW831723	0.021
	1 flush push 1 central pilot light 1 projecting push	White Black	Clear (4)	ZB5 AW831723	0.021
		Black Red	Clear (4)	ZB5 AW833743	0.021
		Green Red	Clear (4)	ZB5 AW831723	0.021

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

(2) For a head with IP 66 degree of protection or NEMA type 4X, fit a clear sealing boot ZBW 008, see page 126.

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

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

Assembly of other products using:
combined sub-assemblies: see page 118
accessories: see pages 125 and 128



XB5 AL845



ZB5 AL8434



XB5 AW84B5





ZB5 AW823743




ZB5 AW843743

Double-headed pushbuttons (1)



Screw clamp terminal connections

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

Complete units



	1 flush green push (marked "I")	1	1	Green	IP 40	XB5 AL845 (ZB5 AZ105 + ZB5 AL8434)	0.049
	1 projecting red push (marked "O")			Red	IP 66	XB5 AL945 (ZB5 AZ105 + ZB5 AL9434)	0.054

Heads only


	2 flush pushes (marked "I") (marked "O")	1	1	Green	IP 40	ZB5 AA8234	0.022
				Red	IP 66	ZB5 AA9234	0.027
				White	IP 40	ZB5 AA8212	0.022
				Black	IP 66	ZB5 AA9212	0.027
	1 flush push (marked "I") 1 projecting push (marked "O")	1	1	Green	IP 40	ZB5 AL8434	0.021
				Red	IP 66	ZB5 AL9434	0.026
				White	IP 40	ZB5 AL8412	0.021
				Black	IP 66	ZB5 AL9412	0.026

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




Screw clamp terminal connections

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

Complete units, (1)

	1 flush green push (marked "I") 1 orange pilot light 1 projecting red push (marked "O")	1	1	~ 24	Green	XB5 AW84B5 (ZB5 AW0B55 + ZB5 AW843743)	0.060
				~ 48...120	Green	XB5 AW84G5 (ZB5 AW0G55 + ZB5 AW843743)	0.060
				~ 230...240	Green	XB5 AW84M5 (ZB5 AW0M55 + ZB5 AW843743)	0.060
					Red		
					Red		
					Red		

Heads only (3)

	1 flush push (marked "I") 1 clear central pilot light (4) 1 flush push (marked "O")	1	1	Black	ZB5 AW822743	0.022
				Red	ZB5 AW823743	0.022
				Green	ZB5 AW823743	0.022
				Red	ZB5 AW823743	0.022
	1 flush push (marked "I") 1 clear central pilot light (4) 1 projecting push (marked "O")	1	1	White	ZB5 AW821723	0.021
				Black	ZB5 AW821723	0.021
				Black	ZB5 AW82743	0.021
				Red	ZB5 AW82743	0.021
	1 flush push (marked "I") 1 clear central pilot light (4) 1 projecting push (marked "O")	1	1	Green	ZB5 AW843743	0.021
				Red	ZB5 AW843743	0.021
				White	ZB5 AW841723	0.021
				Black	ZB5 AW841723	0.021

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

(2) For IP 66 degree of protection or NEMA type 4, fit a clear sealing boot **ZBW 008**, see page 126.

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

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


Assembly of other products using:
body/contact assemblies: see page 114
accessories: see page 128

Mushroom head pushbuttons^{(1) (2)}





Screw clamp terminal connections

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

Complete units

	Mushroom head	1	–	40	Black	XB5 AC21 (ZB5 AZ101 + ZB5 AC2)	0.062
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Heads only

	Mushroom head	1	–	30	Black	ZB5 AC24	0.027
					Green	ZB5 AC34	0.027
					Red	ZB5 AC44	0.027
					Yellow	ZB5 AC54	0.027
					Blue	ZB5 AC64	0.027
	Mushroom head	1	–	40	Black	ZB5 AC2	0.046
					Green	ZB5 AC3	0.046
					Red	ZB5 AC4	0.046
					Yellow	ZB5 AC5	0.046
					Blue	ZB5 AC6	0.046
	Mushroom head	1	–	60	Black	ZB5 AR2	0.065
					Green	ZB5 AR3	0.065
					Red	ZB5 AR4	0.065
					Yellow	ZB5 AR5	0.065
					Blue	ZB5 AR6	0.065
	Hemispherical	1	–	60 (3)	Black	ZB5 AR216	0.048
					Green	ZB5 AR316	0.048
					Red	ZB5 AR416	0.048
					Yellow	ZB5 AR516	0.048
					Blue	ZB5 AR616	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.

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

(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 114
accessories: see page 128

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		Reference	Weight kg
		Ø (mm)	Colour		
Heads only					
	Push-pull	30	Black	ZB5 AT24	0.044
		40	Black	ZB5 AT2	0.049
		60	Black	ZB5 AX2	0.067
	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
	Key release (key n° 455) (2 keys included with head) (3)  (4)	30	Black	ZB5 AS72	0.040
		40	Black	ZB5 AS12	0.044
		60	Black	ZB5 AS22	0.064

Illuminated mushroom head pushbuttons (2)

Shape of head	Type of reset	Push		Reference	Weight kg
		Ø (mm)	Colour		
Heads only (5)					
	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.
 (2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.
 (3) For specific keys with other numbers, please consult your Regional Sales Office.
 (4) The symbol  indicates key withdrawal position(s).
 (5) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:
body/contact assemblies: see page 114
combined sub-assemblies: see page 118
accessories: see pages 133 and 134





Mushroom head Emergency stop trigger action and mechanical latching pushbuttons conform to standard EN 418/ISO 13850, to Machinery Directive 98/37/EC and to standard IEC/EN 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Emergency stop trigger action and mechanical latching pushbuttons (1)


Screw clamp terminal connections

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

Complete units

Shape of head	Type of reset	Type of contact	Type of contact	Push Ø (mm)	Colour	Reference	Weight kg
	Push-pull	1	1	40	Red	XB5 AT845 (ZB5 AZ105 + ZB5 AT84)	0.076
	Turn to release	1	1	40	Red	XB5 AS8445 (ZB5 AZ105 + ZB5 AS844)	0.072
		–	2	40	Red	XB5 AS8444 (ZB5 AZ104 + ZB5 AS844)	0.072
	Key release (key n° 455)  (2)	1	1	40	Red	XB5 AS9445 (ZB5 AZ105 + ZB5 AS944)	0.112


Heads only

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
	Push-pull	30	Red	ZB5 AT844 ▲	0.050
		40	Red	ZB5 AT84	0.050
	Turn to release	30	Red	ZB5 AS834	0.042
		40	Red	ZB5 AS844	0.046
	Key release (key n° 455) 2 keys included with head (3)  (2)	30	Red	ZB5 AS934	0.068
		40	Red	ZB5 AS944 (4)	0.071
		60	Red	ZB5 AS934	0.092
	Key release (key n° 4A185)	40	Red	ZB5 AS944D	0.071

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


For elevator inspection box applications

Heads only (6)

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
	Push-pull (5)	40	Red	ZB5 AT8643M	0.034



(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

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

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

(4) Other key numbers:

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

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

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

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

Example: To order a Ø 40 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) Cannot be used with metal guards ZBZ 160●.

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

▲ Available: 3rd quarter 2006.

General :
pages 74 to 81

Characteristics :
pages 82 to 85

Dimensions :
pages 138 to 149

Assembly of other products using:
 body/contact assemblies: see page 114
 combined sub-assemblies: see page 118
 accessories: see pages 133 and 134

Emergency stop mechanical latching pushbuttons conform to standard IEC/EN 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Emergency stop mechanical latching pushbuttons (1)




Screw clamp terminal connections

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

Complete units

	Push-pull	–	1	40	Red	XB5 AT42 (ZB5 AZ102 + ZB5 AT4)	0.065
	Turn to release	–	1	40	Red	XB5 AS542 (ZB5 AZ102 + ZB5 AS54)	0.060
	Key release (key n° 455) ⌘ (2)	–	1	40	Red	XB5 AS142 (ZB5 AZ102 + ZB5 AS14)	0.075


Heads only

	Push-pull	–	1	30	Red	ZB5 AT44 ▲	0.049
				40	Red	ZB5 AT4	0.049
				60	Red	ZB5 AX4	0.067
	Turn to release	–	1	30	Red	ZB5 AS44	0.040
				40	Red	ZB5 AS54	0.044
				60	Red	ZB5 AS64	0.064
	Key release (key n° 455) 2 keys included with head (3) ⌘ (2)	–	1	30	Red	ZB5 AS74	0.040
				40	Red	ZB5 AS14 (4)	0.044
				60	Red	ZB5 AS24	0.060
	Key release (key n° 4A185)	–	1	40	Red	ZB5 AS14D	0.044

Illuminated Emergency stop, mechanical latching pushbuttons (1)

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
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Heads only (5)

	Turn to release	40	Red	ZB5 AW743	0.022
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(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

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

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

(4) Other key numbers:

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

Example: To order a Ø 40 red mushroom head for a trigger action and mechanical latching Emergency Stop pushbutton, with release by key n° 421E, the reference becomes: **ZB5 AS1412**.

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

▲ Available:
3rd quarter 2006.




Assembly of other products using:
body/contact assemblies: see page 114
combined sub-assemblies: see page 118
accessories: see page 128

814439




ZB5 AH04



Pushbuttons with flush push (1)

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only, circular				
	Without cap (2)	–	ZB5 AH0	0.018
	Flush	White	ZB5 AH01	0.018
		Black	ZB5 AH02	0.018
		Green	ZB5 AH03	0.018
		Red	ZB5 AH04	0.018
		Yellow	ZB5 AH05	0.018
		Blue	ZB5 AH06	0.018
Heads only, square				
	Without cap (2)	–	ZB5 CH0	0.020
	Flush	White	ZB5 CH01	0.020
		Black	ZB5 CH02	0.020
		Green	ZB5 CH03	0.020
		Red	ZB5 CH04	0.020
		Yellow	ZB5 CH05	0.020
		Blue	ZB5 CH06	0.020

Pushbuttons with projecting push (1)

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only, circular				
	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
Heads only, circular (3)				
	Flush	White	ZB5 AH013	0.017
		Green	ZB5 AH033	0.017
		Red	ZB5 AH043	0.017
		Orange	ZB5 AH053	0.017
		Blue	ZB5 AH063	0.017
Heads only, square (3)				
	Flush	White	ZB5 CH313	0.018
		Green	ZB5 CH333	0.018
		Red	ZB5 CH343	0.018
		Orange	ZB5 CH353	0.018
		Blue	ZB5 CH363	0.018

113972



ZB5 CH343

Illuminated pushbuttons with projecting push (1)

Shape of head	Type of push	Colour of push	Reference	Weight kg
Heads only, circular (3)				
	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 86.
(2) Caps to be ordered separately, see page 124.
(3) Only for use with bodies comprising a light source with integral LED.

Assembly of other products using:
body/contact assemblies: see page 114
accessories: see page 128

522836




ZB5 AFDA

Pushbuttons with key-operated push (1)

Shape of head	Type of push	Locking	Key withdrawal	Reference	Weight kg
Heads only					
	Key n° 4A185	Both positions	Both positions	ZB5 AFDA	0.050
		Actuated position	Actuated position	ZB5 AFDB	0.050
		Rest position	Rest position	ZB5 AFDC	0.050
		Actuated position	Both positions	ZB5 AFDD	0.050
	Key LU1	Both positions	Both positions	ZB5 AFDE01	0.050
	Key LU2	Both positions	Both positions	ZB5 AFDE02	0.050
	Key LU3	Both positions	Both positions	ZB5 AFDE03	0.050
	Key LU4	Both positions	Both positions	ZB5 AFDE04	0.050
	Key LU5	Both positions	Both positions	ZB5 AFDE05	0.050
	Key LU6	Both positions	Both positions	ZB5 AFDE06	0.050
	Key LU7	Both positions	Both positions	ZB5 AFDE07	0.050
	Key LU8	Both positions	Both positions	ZB5 AFDE08	0.050
	Key LU9	Both positions	Both positions	ZB5 AFDE09	0.050
	Key LU10	Both positions	Both positions	ZB5 AFDE10	0.050
	Key LU11	Both positions	Both positions	ZB5 AFDE11	0.050
	Key LU12	Both positions	Both positions	ZB5 AFDE12	0.050
	Key LU13	Both positions	Both positions	ZB5 AFDE13	0.050
	Key LU14	Both positions	Both positions	ZB5 AFDE14	0.050
	Key LU15	Both positions	Both positions	ZB5 AFDE15	0.050

Pushbuttons with knurled push (1)

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

110321



ZB5 AF

110322



ZB5 AF351

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.
(2) Coloured caps to be ordered separately: see page 124.


Assembly of other products using:
body/contact assemblies: see page 114
accessories: see page 128

Selector switches with standard handle (1)


Screw clamp terminal connections

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


Complete units

	Standard handle, black	1	–	2-position	Stay put	∨	XB5 AD21 (ZB5 AZ101 + ZB5 AD2)	0.043
		1	–		Spring return from right to left	↶	XB5 AD41 (ZB5 AZ101 + ZB5 AD4)	0.046
		1	1		Stay put	∨	XB5 AD25 (ZB5 AZ105 + ZB5 AD2)	0.043
		2	–	3-position	Stay put	∨	XB5 AD33 (ZB5 AZ103 + ZB5 AD3)	0.043
					Spring return to centre	↕	XB5 AD53 (ZB5 AZ103 + ZB5 AD5)	0.043

Heads only

	Standard handle, black			2-position	Stay put	∨	ZB5 AD2	0.017
					Spring return from right to left	↶	ZB5 AD4	0.020
				3-position	Stay put	∨	ZB5 AD3	0.017
					Spring return to centre	↕	ZB5 AD5	0.017
					Spring return from left to centre	↷	ZB5 AD7	0.017
					Spring return from right to centre	↶	ZB5 AD8	0.017








Heads only with other coloured handles

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

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

Assembly of other products using:
body/contact assemblies: see page 114
accessories: see page 128







Selector switches with knurled knob (1)

Shape of head	Type of operator	Positions		Reference	Weight kg	
		Number	Type			
Heads only						
	Black knurled knob	2-position	Stay put		ZB5 AD29	0.020
			Spring return from right to left		ZB5 AD49	0.024
	3-position	Stay put		ZB5 AD39	0.020	
		Spring return to centre		ZB5 AD59	0.020	
		Spring return from left to centre		ZB5 AD79	0.020	
		Spring return from right to centre		ZB5 AD89	0.020	



ZB5 AD39

Toggle switches (1)

Shape of head	Type of operator	Positions		Reference	Weight kg	
		Number	Type			
Heads only						
	Black lever	2-position	Stay put		ZB5 AD28	0.023
			Spring return		ZB5 AD48	0.023
	White lever	2-position	Stay put		ZB5 AD2801	0.023
	Red lever	2-position	Stay put		ZB5 AD2804	0.023
	Blue lever	2-position	Stay put		ZB5 AD2806	0.023



ZB5 AD28







(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

Assembly of other products using:
combined sub-assemblies: see page 118
accessories: see page 128

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 ⁽¹⁾																
Screw clamp terminal connections																
Shape of head	Type of operator	Type of contact		Positions Number Type	Supply voltage V	Colour of handle	Reference	Weight kg								
		N/O	N/C													
Complete units																
 106206 XB5 AK123●5		Standard handle	1	1	2-position Stay put	\approx 24 \sim 48...120 \sim 230...240	Green	XB5 AK123B5 (ZB5 AW0B35 + ZB5 AK1233)	0.516							
							Red	XB5 AK124B5 (ZB5 AW0B45 + ZB5 AK1243)	0.516							
							Orange	XB5 AK125B5 (ZB5 AW0B55 + ZB5 AK1253)	0.516							
							Green	XB5 AK123G5 (ZB5 AW0G35 + ZB5 AK1233)	0.516							
							Red	XB5 AK124G5 (ZB5 AW0G45 + ZB5 AK1243)	0.516							
							Orange	XB5 AK125G5 (ZB5 AW0G55 + ZB5 AK1253)	0.516							
							Green	XB5 AK123M5 (ZB5 AW0M35 + ZB5 AK1233)	0.516							
							Red	XB5 AK124M5 (ZB5 AW0M45 + ZB5 AK1243)	0.516							
							Orange	XB5 AK125M5 (ZB5 AW0M55 + ZB5 AK1253)	0.516							
							 106209 XB5 AK124●5		Standard handle	1	1	3-position Stay put	\approx 24 \sim 48...120 \sim 230...240	Green	XB5 AK133B5 (ZB5 AW0B35 + ZB5 AK1333)	0.516
														Red	XB5 AK134B5 (ZB5 AW0B45 + ZB5 AK1343)	0.516
														Orange	XB5 AK135B5 (ZB5 AW0B55 + ZB5 AK1353)	0.516
Green	XB5 AK133G5 (ZB5 AW0G35 + ZB5 AK1333)	0.516														
Red	XB5 AK134G5 (ZB5 AW0G45 + ZB5 AK1343)	0.516														
Orange	XB5 AK135G5 (ZB5 AW0G55 + ZB5 AK1353)	0.516														
Green	XB5 AK133M5 (ZB5 AW0M35 + ZB5 AK1333)	0.516														
Red	XB5 AK134M5 (ZB5 AW0M45 + ZB5 AK1343)	0.516														
Orange	XB5 AK135M5 (ZB5 AW0M55 + ZB5 AK1353)	0.516														
 106212 XB5 AK125●5		Standard handle	1	1	3-position Stay put	\approx 24 \sim 48...120 \sim 230...240								Green	XB5 AK133B5 (ZB5 AW0B35 + ZB5 AK1333)	0.516
														Red	XB5 AK134B5 (ZB5 AW0B45 + ZB5 AK1343)	0.516
														Orange	XB5 AK135B5 (ZB5 AW0B55 + ZB5 AK1353)	0.516
							Green	XB5 AK133G5 (ZB5 AW0G35 + ZB5 AK1333)	0.516							
							Red	XB5 AK134G5 (ZB5 AW0G45 + ZB5 AK1343)	0.516							
							Orange	XB5 AK135G5 (ZB5 AW0G55 + ZB5 AK1353)	0.516							
							Green	XB5 AK133M5 (ZB5 AW0M35 + ZB5 AK1333)	0.516							
							Red	XB5 AK134M5 (ZB5 AW0M45 + ZB5 AK1343)	0.516							
							Orange	XB5 AK135M5 (ZB5 AW0M55 + ZB5 AK1353)	0.516							











(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

Control and signalling units Ø 22

Harmony® XB5, plastic

Illuminated selector switches with standard handle,
with integral LED

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

Shape of head	Type of operator	Positions		Colour of handle	Reference	Weight kg	
		Number	Type				
Heads only (2)							
 ZB5 AK1263	 Standard handle	2-position	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		3-position	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
					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
	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				
	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				
	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 86.

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





Assembly of other products using:
body/contact assemblies: see page 114
accessories: see page 128

Selector switches with long handle (1)








Screw clamp terminal connections

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

Complete units

	Long handle, black	1	-	2-position	Stay put		XB5 AJ21 (ZB5 AZ101 + ZB5 AJ2)	0.043
				3-position	Stay put		XB5 AJ33 (ZB5 AZ103 + ZB5 AJ3)	0.043
					Spring return to centre		XB5 AJ53 (ZB5 AZ103 + ZB5 AJ5)	0.043

Heads only







	Long handle, black	1	-	2-position	Stay put		ZB5 AJ2	0.017
					Spring return from right to left		ZB5 AJ4	0.020
				3-position	Stay put		ZB5 AJ3	0.017
					Spring return to centre		ZB5 AJ5	0.017
					Spring return from left to centre		ZB5 AJ7	0.017
					Spring return from right to centre		ZB5 AJ8	0.017

Key switches (1)


Screw clamp terminal connections

Shape of head	Type of operator	Type of contact		Positions		Reference	Weight
		N/O	N/C	Number	Type (2)		

Complete units

	Key switch with key n° 455	1	-	2-position	Stay put		XB5 AG21 (ZB5 AZ101 + ZB5 AG2)	0.831
							XB5 AG41 (ZB5 AZ101 + ZB5 AG4)	0.831
					Spring return to left		XB5 AG61 (ZB5 AZ101 + ZB5 AG6)	0.870
				3-position	Stay put		XB5 AG03 (ZB5 AZ103 + ZB5 AG0)	0.831
							XB5 AG33 (ZB5 AZ103 + ZB5 AG3)	0.831






































(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

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


Assembly of other products using:
body/contact assemblies: see page 114
accessories: see page 128

Key switches (continued) (1)

Screw clamp terminal connections

Shape of head	Type of operator	Positions (2)		Reference	Weight kg	
		Number	Type			
Heads only						
 ZB5 AG2	 Key switch with key n° 455 (3) (4)	2-position	Stay put	 ZB5 AG2	0.057	
				 ZB5 AG02	0.057	
				 ZB5 AG4	0.057	
		3-position	Stay put	Spring return from right to left	 ZB5 AG6	0.061
					 ZB5 AG0	0.057
					 ZB5 AG3	0.057
				Spring return from left to centre	 ZB5 AG5	0.057
					 ZB5 AG9	0.057
					 ZB5 AG09	0.057
				Spring return from right to centre	 ZB5 AG1	0.057
					 ZB5 AG7	0.057
					 ZB5 AG8	0.057
				Spring return from left to centre	 ZB5 AG05	0.057
					 ZB5 AG08	0.057
					 ZB5 AG2D	0.057
 ZB5 AG3	 Key switch with key n° 8D1	2-position	Stay put	 ZB5 AG02D	0.057	
				 ZB5 AG4D	0.057	
				 ZB5 AG6D	0.061	
		3-position	Stay put	Spring return from right to left	 ZB5 AG0D	0.057
					 ZB5 AG3D	0.057
					 ZB5 AG5D	0.057
				Spring return from left to centre	 ZB5 AG9D	0.057
					 ZB5 AG09D	0.057
					 ZB5 AG03D	0.057
				Spring return from right to centre	 ZB5 AG04D	0.057
					 ZB5 AG06D	0.057
					 ZB5 AG1D	0.057
				Spring return from right to centre	 ZB5 AG07D	0.057
					 ZB5 AG8D	0.057
					 ZB5 AG08D	0.057
Spring return from left to centre	 ZB5 AG05D	0.057				
	 ZB5 AG7D	0.057				
	 ZB5 AG05D	0.057				

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 86.

(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 **2 0** to the reference.

Example: For a switch head with key n° 421E, 2-position stay put with key withdrawal from the left-hand position, the reference becomes: **ZB5 AG212**.

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

Assembly of other products using:
light block sub-assemblies: see page 48
accessories: see pages 124 and 128


81438B






XB5 AVB1

Pilot lights with integral LED

Screw clamp terminal connections

Shape of head	Supply voltage V	Colour	Reference	Weight kg
Complete units				
■ With plain lens				
 Protected LED	~ 24	White	XB5 AVB1 (ZB5 AVB1 + ZB5 AV013)	0.038
		Green	XB5 AVB3 (ZB5 AVB3 + ZB5 AV033)	0.038
		Red	XB5 AVB4 (ZB5 AVB4 + ZB5 AV043)	0.038
		Orange	XB5 AVB5 (ZB5 AVB5 + ZB5 AV053)	0.038
		Blue	XB5 AVB6 (ZB5 AVB6 + ZB5 AV063)	0.038
		~ 48...120	White	XB5 AVG1 (ZB5 AVG1 + ZB5 AV013)
	Green	XB5 AVG3 (ZB5 AVG3 + ZB5 AV033)	0.038	
	Red	XB5 AVG4 (ZB5 AVG4 + ZB5 AV043)	0.038	
	Orange	XB5 AVG5 (ZB5 AVG5 + ZB5 AV053)	0.038	
	Blue	XB5 AVG6 (ZB5 AVG6 + ZB5 AV063)	0.038	
	~ 230...240	White	XB5 AVM1 (ZB5 AVM1 + ZB5 AV013)	0.038
	Green	XB5 AVM3 (ZB5 AVM3 + ZB5 AV033)	0.038	
	Red	XB5 AVM4 (ZB5 AVM4 + ZB5 AV043)	0.038	
	Orange	XB5 AVM5 (ZB5 AVM5 + ZB5 AV053)	0.038	
	Blue	XB5 AVM6 (ZB5 AVM6 + ZB5 AV063)	0.038	

Heads only, circular (1)

Shape of head	For use with body comprising light source type	Colour of lens	Reference	Weight kg
■ With plain lens				
 Protected LED	Integral LED only	White	ZB5 AV013	0.017
		Green	ZB5 AV033	0.017
		Red	ZB5 AV043	0.017
		Orange	ZB5 AV053	0.017
		Blue	ZB5 AV063	0.017
		5 colours (2) (3)	ZB5 AV003	0.017
■ With plain lens, for insertion of legend (3)				
 Protected LED	Integral LED only	White	ZB5 AV013E	0.017
		Green	ZB5 AV033E	0.017
		Red	ZB5 AV043E	0.017
		Orange	ZB5 AV053E	0.017
		Blue	ZB5 AV063E	0.017
■ With grooved lens (4)				
 Protected LED	Integral LED only	White	ZB5 AV013S	0.017
		Green	ZB5 AV033S	0.017
		Red	ZB5 AV043S	0.017
		Orange	ZB5 AV053S	0.017
		Blue	ZB5 AV063S	0.017
		5 colours (2)	ZB5 CV003	0.028

Heads only, square (1)

■ With plain lens				
 Protected LED	Integral LED only	White	ZB5 CV013	0.020
		Green	ZB5 CV033	0.020
		Red	ZB5 CV043	0.020
		Orange	ZB5 CV053	0.020
		Blue	ZB5 CV063	0.020
		5 colours (2)	ZB5 CV003	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 128.

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

81452B



ZB5 AV053

81453B



ZB5 CV063

Assembly of other products using:
light block sub-assemblies: see page 122
accessories: see pages 124 and 128


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

Screw clamp terminal connections



Shape of head	Supply voltage V	Colour	Reference	Weight kg
---------------	---------------------	--------	-----------	--------------

Complete units - With plain lens

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

	≤ 250	White	XB5 AV61 (ZB5 AV6 + ZB5 AV01)	0.037
		Green	XB5 AV63 (ZB5 AV6 + ZB5 AV03)	0.037
		Red	XB5 AV64 (ZB5 AV6 + ZB5 AV04)	0.037
		Orange	XB5 AV65 (ZB5 AV6 + ZB5 AV05)	0.037


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

	$\sim 110...120 - 50/60$ Hz	White	XB5 AV31 (ZB5 AV3 + ZB5 AV01)	0.109
		Green	XB5 AV33 (ZB5 AV3 + ZB5 AV03)	0.109
		Red	XB5 AV34 (ZB5 AV3 + ZB5 AV04)	0.109
		Orange	XB5 AV35 (ZB5 AV3 + ZB5 AV05)	0.109
	$\sim 230 - 50$ Hz	White	XB5 AV41 (ZB5 AV4 + ZB5 AV01)	0.110
	$\sim 220...240 - 60$ Hz	Green	XB5 AV43 (ZB5 AV4 + ZB5 AV03)	0.110
		Red	XB5 AV44 (ZB5 AV4 + ZB5 AV04)	0.110
		Orange	XB5 AV45 (ZB5 AV4 + ZB5 AV05)	0.110


Heads only (1)

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

■ With plain lens

	With BA 9s base fitting (incandescent, neon or LED)	White	ZB5 AV01	0.018
		Green	ZB5 AV03	0.018
		Red	ZB5 AV04	0.018
		Orange	ZB5 AV05	0.018
		Blue	ZB5 AV06	0.018
		Clear	ZB5 AV07	0.018

■ With grooved lens (2)

	With BA 9s base fitting (neon or LED only)	White	ZB5 AV01S	0.017
		Green	ZB5 AV03S	0.017
		Red	ZB5 AV04S	0.017
		Orange	ZB5 AV05S	0.017
		Blue	ZB5 AV06S	0.017
		Clear	ZB5 AV07S	0.017

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

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



XB5 AV63



XB5 AV34



ZB5 AV01

Assembly of other products using:
body/contact assemblies: see page 114
accessories: see page 128




Control and signalling units Ø 22

Harmony® XB5, plastic

Specific functions

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

Manual overload reset buttons (travel 10 mm)

Shape of head	Actuation distance mm	Marking	Colour	Reference	Weight kg
Without cap (1)					
	17...120	–	–	XB5 AA801	0.027
	120...257	–	–	XB5 AA802	0.040
With flush push					
	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
With projecting push					
	17...120	O	Red	XB5 AL84101	0.027
	120...257	O	Red	XB5 AL84201	0.040

562091




XB5 AA

109501



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

814343



XB5 DS

814344



XB5 KS

Annunciators (IP 40 NEMA 1)

85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 68)	≈ 24 - 50/60 Hz	XB5 KSB	0.035
	≈ 120 - 50/60 Hz	XB5 KSG	0.035
	≈ 230...240 - 50 Hz	XB5 KSM	0.035

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

814344



XB5 DT1S

(1) Coloured cap to be ordered separately: see page 124.

(2) Potentiometer not included.

563161



XD5 PA12

Joystick controllers (with 54 mm long operating shaft) (1)

Description	Operation	Spring return to zero position	Reference	Weight kg
Complete products (screw clamp terminal connections)				
2-direction	1 notch 1 N/O contact per direction	Without	XD5 PA12	0.060
		With	XD5 PA22	0.060
4-direction	1 notch 1 N/O contact per direction	Without	XD5 PA14	0.077
		With	XD5 PA24	0.077

814667



ZD5 PA103

Sub-assemblies for joystick controllers

Description	For use with	Reference	Weight kg
Complete body/contact assemblies (screw clamp terminal connections)	2-direction	ZD5 PA103	0.049
	4-direction	ZD5 PA203	0.058

814666



ZD5 PA203

Complete head assemblies with operating shaft	2-direction, stay put	ZD5 PA12	0.022
	2-direction, spring return to zero position	ZD5 PA22	0.022
	4-direction, stay put	ZD5 PA14	0.022
	4-direction, spring return to zero position	ZD5 PA24	0.022

563162



ZD5 PA12

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

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

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

To combine with heads, see pages 88 to 112



ZB5 AZ101



ZBE 101



ZBE 203



ZBE 201



ZB5 AZ106



ZB5 AZ107



ZB5 AZ009

Contact functions

Screw clamp terminal connections (1)

Simple functions unit

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Fixing collar + single contact block	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
Standard single contact blocks	1	–	5	ZBE 101	0.011
	–	1	5	ZBE 102	0.011
Standard double contact blocks	2	–	5	ZBE 203	0.020
	–	2	5	ZBE 204	0.020
	1	1	5	ZBE 205	0.020
Contact blocks for low power switching, with gold flashed contacts	1	–	5	ZBE 1016	0.012
	–	1	5	ZBE 1026	0.012
Contact blocks for low power switching, with gold flashed contacts and dust protection(2)	1	–	5	ZBE 1016P	0.012
	–	1	5	ZBE 1026P	0.012

Specific function units

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Contact block, with early make contact	1	–	5	ZBE 201	0.011
Contact block, with late break contact	–	1	5	ZBE 202	0.011

Description	Type of contact		Reference	Weight kg
	N/O+N/C	N/O+N/O		
Fixing collar + contact block for overlapping contacts function	1	–	ZB5 AZ106	0.030
Fixing collar + contact block for sequencing contacts function	–	1	ZB5 AZ107	0.030

Body/fixing collar

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

(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). The maximum number of contacts is specified on page 86.

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

To combine with heads, see pages 88 to 112



ZB5 AZ1013



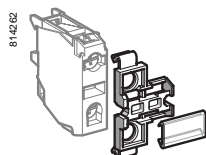
ZB5 AZ1023



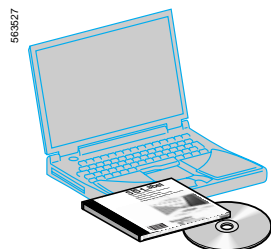
ZBE 1023



ZBE 2043



ZBZ 001



XBY 2U

Contact functions

Faston connectors (6.35 or 2 x 2.8 mm) (1)

Simple functions units

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Fixing collar + single contact block	1	–	1	ZB5 AZ1013	0.021
	–	1	1	ZB5 AZ1023	0.021
	2	–	1	ZB5 AZ1033	0.030
Standard single contact blocks	–	2	1	ZB5 AZ1043	0.030
	1	1	1	ZB5 AZ1053	0.030
	1	–	5	ZBE 1013 (2)	0.011
Standard double contact blocks	–	1	5	ZBE 1023 (2)	0.011
	2	–	5	ZBE 2033	0.020
	–	2	5	ZBE 2043	0.020
Contact blocks for low power switching, with gold flashed contacts	1	1	5	ZBE 2053	0.020
	1	–	5	ZBE 10163 (2)	0.012
	–	1	5	ZBE 10263 (2)	0.012
Contact blocks for low power switching, with gold flashed contacts and dust protection (3)	1	–	5	ZBE 1016P3 (2)	0.012
	–	1	5	ZBE 1026P3 (2)	0.012

Specific function units

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Contact block, with early make contact	1	–	5	ZBE 2013 (2)	0.011
Contact block, with late break contact	–	1	5	ZBE 2023 (2)	0.011

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

Application	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.

To combine with heads, see pages 88 to 112

Contact functions: simple functions units

Plug-in connector (1)

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Fixing collar + single contact block	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
Standard contact blocks	1	2	1	ZB5 AZ1414	0.036
	1	–	5	ZBE 1014	0.009
	–	1	5	ZBE 1024	0.009

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	White	5	ZBV B14	0.016
		Green	5	ZBV B34	0.016
		Red	5	ZBV B44	0.016
		Orange	5	ZBV B54	0.016
		Blue	5	ZBV B64	0.016
		Protected LED	≈ 48...120	White	5
Green	5			ZBV G34	0.016
Red	5			ZBV G44	0.016
Orange	5			ZBV G54	0.016
Blue	5			ZBV G64	0.016
	≈ 230...240			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 ²	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
Self-stripping connector 2-pin, 5.08 mm pitch	–	0.75	–	16	APE 1PAD21	0.080
Spring terminal connector 2-pin, 5.08 mm pitch	–	0.2 to 2.5	–	10	APE 1PRE21	0.003

Body/fixing collar

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

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



ZB5 AZ1014



ZB5 AZ1024



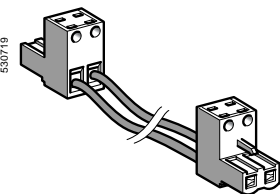
ZBE 1014



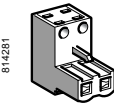
ZBE 1024



ZBV B14



APE 1C2250



APE 1PAD21



ZB5 AZ009

To combine with heads, see pages 88 to 112

Contact blocks**For printed circuit board (1)**

Description	Type of contact		Sold in lots of	Unit reference	Weight kg
	N/O	N/C			
Standard contact blocks	1	–	10	ZBE 701	0.002
	–	1	10	ZBE 702	0.002
Contact blocks for low power switching, with gold flashed contacts	1	–	10	ZBE 7016	0.003
	–	1	10	ZBE 7026	0.003

Light blocks**For printed circuit board (1)**

Description	Supply voltage V	Colour of LED	Sold in Lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	≈ 24	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**Adapter (socket)****For printed circuit board**

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

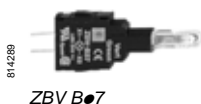
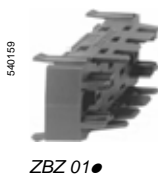
Body/fixing collar**For use with**

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

Accessories specifically for printed circuit board mounting (1)**Must be used in conjunction with adapter (socket) ZBZ 010.**

Description	For use with	Sold in lots of	Unit reference	Weight kg
Fixing collar/pillar	Printed circuit board support	10	ZB5 AZ079	0.003
Fixing screw for printed circuit board	Fixing collar/pillar ZB5 AZ079	10	ZBZ 006	0.011

(1) For details of support drilling and of printed circuit board: see page 149.

814287
ZBE 701814288
ZBE 702814289
ZBV B07540159
ZBZ 010814288
ZB5 AZ009

Control and signalling units Ø 22

Harmony® XB5, plastic

Body/contact assemblies + light blocks with integral LED

To combine with:
heads, see pages 93 to 109
contacts, see page 114



Complete body/contact assemblies and light blocks (1)

Screw clamp terminal connections

Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
		N/O	N/C			

Direct supply

Integral LED ≈ 24 Protected
LED

8 14532  ZB5 AW0001	≈ 24	1	-	White	ZB5 AW0B11	0.032
				Green	ZB5 AW0B31	0.032
				Red	ZB5 AW0B41	0.032
				Orange	ZB5 AW0B51	0.032
				Blue	ZB5 AW0B61	0.032
8 14533  ZB5 AW0003	≈ 24	-	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
	≈ 24	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
	≈ 24	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
	$\sim 48...120$	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
	$\sim 48...120$	-	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
	$\sim 48...120$	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
	$\sim 48...120$	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 114.

Other versions

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

Control and signalling units Ø 22

Harmony® XB5, plastic

Body/contact assemblies + light blocks with integral LED

To combine with:
heads, see pages 93 to 109
contacts, see page 114

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

Screw clamp terminal connections

Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
		N/O	N/C			
	V					kg

Direct supply (continued)

Integral LED Protected LED	~ 230...240	1	-	White	ZB5 AW0B11	0.032
				Green	ZB5 AW0M31	0.032
				Red	ZB5 AW0M41	0.032
				Orange	ZB5 AW0M51	0.032
				Blue	ZB5 AW0M61	0.032
		-	1	White	ZB5 AW0M12	0.032
				Green	ZB5 AW0M32	0.032
				Red	ZB5 AW0M42	0.032
				Orange	ZB5 AW0M52	0.032
				Blue	ZB5 AW0M62	0.032
		2	-	White	ZB5 AW0M13	0.042
				Green	ZB5 AW0M33	0.042
				Red	ZB5 AW0M43	0.042
				Orange	ZB5 AW0M53	0.042
				Blue	ZB5 AW0M63	0.042
		1	1	White	ZB5 AW0M15	0.042
				Green	ZB5 AW0M35	0.042
				Red	ZB5 AW0M45	0.042
				Orange	ZB5 AW0M55	0.042
				Blue	ZB5 AW0M65	0.042

Supply via integral transformer

Integral LED Protected LED	~ 400 V 50 Hz	1	1	White	ZB5 AW05B15	0.136
				Green	ZB5 AW05B35	0.136
				Red	ZB5 AW05B45	0.136
				Orange	ZB5 AW05B55	0.136
				Blue	ZB5 AW05B65	0.136
	~ 400...460 V 60 Hz	1	1	White	ZB5 AW08B15	0.136
				Green	ZB5 AW08B35	0.136
				Red	ZB5 AW08B45	0.136
				Orange	ZB5 AW08B55	0.136
				Blue	ZB5 AW08B65	0.136
	~ 550...600 V 60 Hz	1	1	White	ZB5 AW09B15	0.136
				Green	ZB5 AW09B35	0.136
				Red	ZB5 AW09B45	0.136
				Orange	ZB5 AW09B55	0.136
				Blue	ZB5 AW09B65	0.136

(1) Can be fitted with additional contact blocks: see page 114.

Other versions

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



ZB5 AW0001



ZB5 AW0003



Control and signalling units Ø 22

Harmony® XB5, plastic

Body/contact assemblies + light blocks with
BA 9s base fittingTo combine with:
heads, see pages 92 to 107
contacts, see page 114Complete body/contact assemblies and light blocks ⁽¹⁾

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

Screw clamp terminal connections

Light source	Supply voltage V	Type of contact		Colour of light source	Reference	Weight kg
						
Direct supply						
BA 9s base fitting bulb, 2.4 W max., not included ⁽²⁾	≤ 250	1	–	–	ZB5 AW061	0.031
		–	1	–	ZB5 AW062	0.031
		2	–	–	ZB5 AW063	0.041
		1	1	–	ZB5 AW065	0.041
Supply via integral transformer (1.2 VA, 6 V secondary)						
Incandescent BA 9s base fitting bulb, included	~ 110...120 50/60 Hz	1	–	–	ZB5 AW031	0.110
		1	1	–	ZB5 AW035	0.119
BA9s base fitting LED, included	~ 110...120 50/60 Hz	1	–	–	ZB5 AW03D15	0.119
		1	1	White	ZB5 AW03D35	0.119
				Green	ZB5 AW03D45	0.119
				Red	ZB5 AW03D55	0.119
				Orange	ZB5 AW03D65	0.119
				Blue	ZB5 AW03D65	0.119
~ 230 50 Hz ~ 220...240 60 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	
			~ 400 50/60 Hz	1	1	White
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 114.⁽²⁾ Bulb to be ordered separately: see page 136.

Other versions

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

ZB5 AW065



ZB5 AW035

To combine with:
heads, see page 94

Light blocks

Screw clamp terminal connections

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg	
Integral LED (to combine with head for integral LED)	≈ 12	White	5	ZBV J1	0.017	
		Green	5	ZBV J3	0.017	
		Red	5	ZBV J4	0.017	
		Orange	5	ZBV J5	0.017	
		Blue	5	ZBV J6	0.017	
		White	5	ZBV B1	0.017	
	≈ 24	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	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		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...1240		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		
	Direct supply for bulb with BA 9s base fitting, 2.4 W max, not included (1)	≤ 250	–	5	ZBV 6	0.016

Blocks for "test light" function

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

LED suppressors

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

Body/fixing collar

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

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

Identification of an XB5 A control or signalling unit	10	ZBZ 001	0.001
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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)

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

(1) Bulb to be ordered separately: see page 136.

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

(3) Block for use with ~ light blocks with integral LED types ZBV G●, ZBV M●, see connection on page 146.

Other versions

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

814273



ZBV B●

622067



ZBZ G156

622068



ZBZ M156

814274



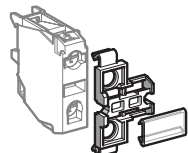
ZBZ V●

814688



ZB5 AZ009

814269



ZBZ 001

663627



XYB 2U

To combine with:
heads, see page 110
contacts, see page 114

560090



ZB5 AV●●

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

Screw clamp terminal connections

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	≈ 12	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
		White	ZB5 AVB1	0.022
	≈ 24 (1)	Green	ZB5 AVB3	0.022
		Red	ZB5 AVB4	0.022
		Orange	ZB5 AVB5	0.022
		Blue	ZB5 AVB6	0.022
		White	ZB5 AVBG1	0.022
		Green	ZB5 AVBG3	0.022
	≈ 24...120	Red	ZB5 AVBG4	0.022
		Orange	ZB5 AVBG5	0.022
		Blue	ZB5 AVBG6	0.022
		White	ZB5 AVG1	0.022
		Green	ZB5 AVG3	0.022
		Red	ZB5 AVG4	0.022
	~ 48...120 (1)	Orange	ZB5 AVG5	0.022
		Blue	ZB5 AVG6	0.022
		White	ZB5 AVM1	0.022
		Green	ZB5 AVM3	0.022
		Red	ZB5 AVM4	0.022
		Orange	ZB5 AVM5	0.022
~ 230...240 (1)	Blue	ZB5 AVM6	0.022	

522071



ZB5 AVB● 156

Complete light bodies with 3-terminal "test" function

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

Screw clamp terminal connections

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	≈ 24 (2)	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

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Integral LED Protected LED	≈ 24	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
		White	ZB5 AV18G1	0.022
	~ 48...120	Green	ZB5 AV18G3	0.022
		Red	ZB5 AV18G4	0.022
		Orange	ZB5 AV18G5	0.022
		Blue	ZB5 AV18G6	0.022
		White	ZB5 AV18M1	0.022
		Green	ZB5 AV18M3	0.022
	~ 230...240	Red	ZB5 AV18M4	0.022
		Orange	ZB5 AV18M5	0.022
		Blue	ZB5 AV18M6	0.022

(1) Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 115.

(2) For a ~ 120 or 230 V supply, use complete body ZB5 BVG● or ZB5 BVM● with block for "test light" function type ZBZ M156, see page 121.

To combine with:
heads, see page 111
contacts, see page 114

814524



ZB5 AV6

Complete light bodies (fixing collar + light block)
For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections

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 AV5	0.099
	~ 440...480 - 60 Hz	–	ZB5 AV8	0.099
	~ 550...600 - 60 Hz	–	ZB5 AV9	0.099
BA 9s base fitting LED, included	~ 110...120 -50/60 Hz	White	ZB5 AV3D1	0.102
		Green	ZB5 AV3D3	0.102
		Red	ZB5 AV3D4	0.102
		Orange	ZB5 AV3D5	0.102
		Blue	ZB5 AV3D6	0.102
		Blue	ZB5 AV3D6	0.102
	~ 230 - 50 Hz	White	ZB5 AV4D1	0.102
		Green	ZB5 AV4D3	0.102
		Red	ZB5 AV4D4	0.102
		Orange	ZB5 AV4D5	0.102
		Blue	ZB5 AV4D6	0.102
		Blue	ZB5 AV4D6	0.102
	~ 220...240 - 60 Hz	White	ZB5 AV5D1	0.102
		Green	ZB5 AV5D3	0.102
		Red	ZB5 AV5D4	0.102
		Orange	ZB5 AV5D5	0.102
		Blue	ZB5 AV5D6	0.102
		Blue	ZB5 AV5D6	0.102
~ 400 - 50/60 Hz	White	ZB5 AV5D1	0.102	
	Green	ZB5 AV5D3	0.102	
	Red	ZB5 AV5D4	0.102	
	Orange	ZB5 AV5D5	0.102	
	Blue	ZB5 AV5D6	0.102	
	Blue	ZB5 AV5D6	0.102	

814523



ZB5 AV3

522088



ZB5 AV156

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

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 136.				

Other versions

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 115.

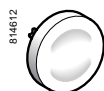
Control and signalling units Ø 22

Harmony® XB5, plastic

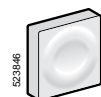
Accessories for heads: unmarked pushbutton caps



ZBA ●



ZBL ●



ZBC 1

Pushbutton caps - unmarked

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

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



ZBA ●33

Pushbutton caps - marked

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

(1) Double injection moulded marking.

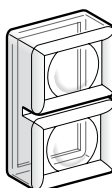
(2) Can be clipped-in at 90° steps, through 360°.

814334



ZBP 0

814655



ZBW 008

Transparent boots for pushbuttons

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

Coloured boots

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



ZBV 01●3

Lens caps				
For use with	Colour	Sold in lots of	Unit reference	Weight kg
Circular lens caps for light sources with integral LED				
Pilot lights	White	10	ZBV 0113	0.002
	Green	10	ZBV 0133	0.002
	Red	10	ZBV 0143	0.002
	Orange	10	ZBV 0153	0.002
	Blue	10	ZBV 0163	0.002
	5 different coloured grooved lenses (1)	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
Square lens caps for light sources with integral LED				
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
Circular lens caps for light sources with BA 9s base fitting				
Pilot lights	White	10	ZBV 011	0.002
	Green	10	ZBV 013	0.002
	Red	10	ZBV 014	0.002
	Orange	10	ZBV 015	0.002
	Blue	10	ZBV 016	0.002
	Clear	10	ZBV 017	0.002
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.



ZBV 01●

Control and signalling units Ø 22

Harmony® style 5, plastic

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

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

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

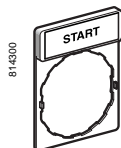
(1) For legends, see pages 130 to 132.

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

Control and signalling units Ø 22

Harmony® style 5, plastic

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



ZBY 2303

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

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

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

Control and signalling units Ø 22


Harmony® style 5, plastic

Legends 8 x 27 mm

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

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

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

814310

 ZBY 02178

814311

 ZBY 00104

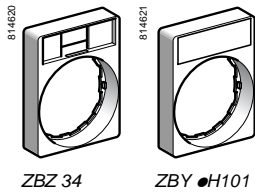
8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34) (continued)

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

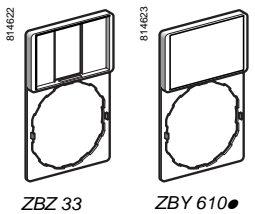
(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

Control and signalling units Ø 22

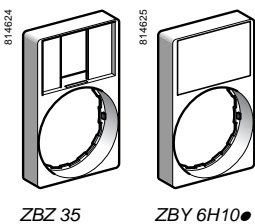
Harmony® style 5, plastic

Legend holders for 8 x 27 or 18 x 27 mm legends
for engraving or printing**30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends**

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular heads	–	10	ZBZ 34	0.003
	Square heads	–	10	ZBC Z34	0.002
With blank legend	Circular heads	Black or red background	10	ZBY 2H101	0.004
		White or yellow background	10	ZBY 4H101	0.004
	Square heads	Black or red background	10	ZBC Y2H101	0.002
		White or yellow background	10	ZBC Y4H101	0.002

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

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular and square heads	–	10	ZBZ 33	0.001
With blank legend	Circular and square heads	Black or red background	10	ZBY 6101	0.002
		White or yellow background	10	ZBY 6102	0.002

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

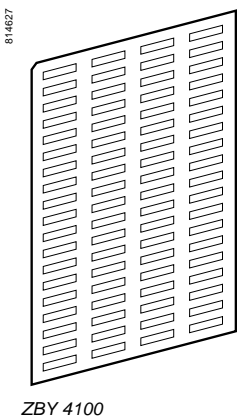
Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular heads	–	10	ZBZ 35	0.003
	Square heads	–	10	ZBC Z35	0.002
With blank legend	Circular heads	Black or red background	10	ZBY 6H101	0.004
		White or yellow background	10	ZBY 6H102	0.004
	Square heads	Black or red background	10	ZBC Y6H101	0.003
		White or yellow background	10	ZBC Y6H102	0.003

Legends for engraving

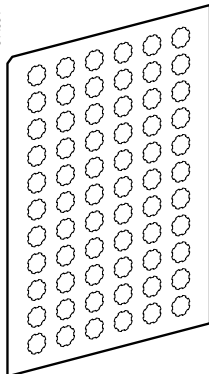
Description mm	For use with	Colour	Sold in lots of	Unit reference	Weight kg
8 x 27	30 x 40 mm legend holder	Black or red background	10	ZBY 0101	0.001
		White or yellow background	10	ZBY 0102	0.001
18 x 27	30 x 50 mm legend holder	Black or red background	10	ZBY 5101	0.001
		White or yellow background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

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

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



814634



ZBY 1101

Legends for pushbuttons, switches and pilot lights XB5 A

Description	Marking		Sold in lots of	Unit reference	Weight kg
Sheets of 66 circular peel-off, transparent, self-adhesive legends	Without		10	ZBY 1101	0.017
Strips of 66 circular peel-off, transparent, self-adhesive legends	International	O	10	ZBY 1146	0.017
		I	10	ZBY 1147	0.017
		II	10	ZBY 1148	0.017
		III	10	ZBY 1149	0.017
		STOP	10	ZBY 1304	0.017
		↑	10	ZBY 1912	0.017
	French	ARRET	10	ZBY 1104	0.017
		ARRIERE	10	ZBY 1106	0.017
		AUTO	10	ZBY 1115	0.017
		AVANT	10	ZBY 1105	0.017
		DESCENTE	10	ZBY 1108	0.017
		MAIN	10	ZBY 1116	0.017
		MARCHE	10	ZBY 1103	0.017
		MONTEE	10	ZBY 1107	0.017
	English	HAND	10	ZBY 1316	0.017
		OFF	10	ZBY 1312	0.017
ON		10	ZBY 1311	0.017	
START		10	ZBY 1303	0.017	
German	AB	10	ZBY 1208	0.017	
	AUF	10	ZBY 1207	0.017	
	AUS	10	ZBY 1204	0.017	
	EIN	10	ZBY 1203	0.017	
	ZU	10	ZBY 1214	0.017	
Strip of 66 square peel-off, transparent, self-adhesive legends	Without		10	ZBC Y1101	0.017

"SIS Label" labelling software

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

565327



XBY 2U

Circular legends for Emergency stop mushroom head pushbuttons

Diameter mm	Colour	Marking on yellow background	Reference	Weight kg
60	Yellow	Without	ZBY 9101	0.004
		ARRET D'URGENCE	ZBY 9130	0.004
		EMERGENCY STOP	ZBY 9330	0.004
		NOT-AUS	ZBY 9230	0.004
90	Yellow	Without	ZBY 8101	0.008
		ARRET D'URGENCE	ZBY 8130	0.008
		EMERGENCY STOP	ZBY 8330	0.008
		NOT-AUS	ZBY 8230	0.008

563089

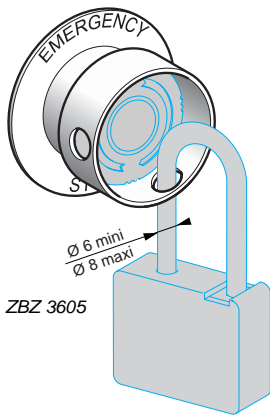


ZBY 9330

Control and signalling units Ø 22

Harmony® XB5, plastic

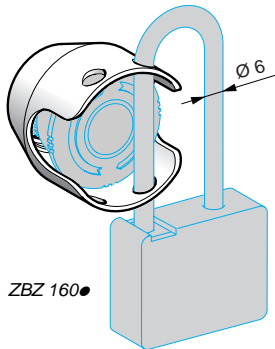
Accessories for pushbuttons: padlocking kit, protective guard, bellows seals, padlockable flaps



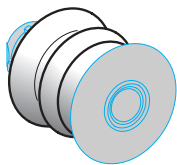
ZBZ 3605



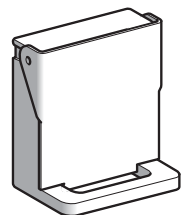
ZBY 9130T



ZBZ 160●



ZBZ 08



ZB4 BZ64

Accessories

Padlocking kit for Emergency Stop

Description	Application	Colour	Reference	Weight kg
Padlocking kit Conforming to EN 418/ISO 13850 (1) (2) (padlockable)	For Emergency Stop function only, with the following Ø 40 trigger-action pushbuttons: XB5 AT8● XB5 AS8● XB5 AS9● ZB5 AT8● ZB5 AS8● ZB5 AS9●	Yellow	ZBZ 3605	0.045

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

Guards

Description	Application	Colour	Reference	Weight kg
Metal guards Padlockable (2)	For Emergency Stop function only, with the following Ø 40 trigger-action pushbuttons: XB5 AT8● XB5 AS8● XB5 AS9● ZB5 AT8● ZB5 AS8● ZB5 AS9●	Chromium plated	ZBZ 1600	0.046
		Black	ZBZ 1602	0.046
		Red	ZBZ 1604	0.046
		Yellow	ZBZ 1605	0.046
		Blue	ZBZ 1606	0.046
Plastic guard	Selector switches and key switches	Black	ZBZ 2102	0.005

Bellows seals for harsh environments (IP 69K)

Description	For use with	Colour Material	Sold in lots of	Unit reference	Weight kg
Bellows seals for harsh environments (humidity, dust, high-pressure cleaning)	Any Harmony XB5 plastic, mushroom head pushbutton (3), Ø 40 mm or Ø 60 mm (except ZB5 AR●16)	Red Silicone	2	ZBZ 48 ▲	0.009
		Black EPDM	2	ZBZ 28 ▲	0.009

Padlockable flaps

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

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

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

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

▲ Available: 4th quarter 2006.

General :
pages 74 to 81Characteristics :
pages 82 to 85Dimensions :
pages 138 to 149

Control and signalling units Ø 22

Harmony® XB5, plastic

Accessories for pushbuttons: blanking plugs
flush mounting kit , cable ducting support

ZB5 SZ3

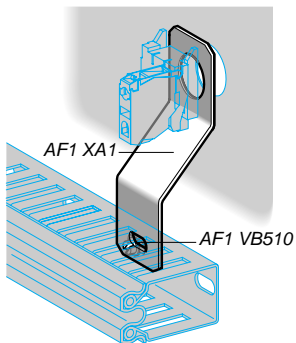
Accessories

Blanking plug

Description	For use with	Sold in lots of	Unit reference	Weight kg
Plastic blanking plug, square, black (with fixing nut) (1)	Ø 22 control and signalling units	10	ZB5 SZ5	0.009
Plastic blanking plug, round, black (with fixing nut)	Ø 22 control and signalling units	10	ZB5 SZ3	0.009

Cable ducting support

Description	Application	Sold in lots of	Unit reference	Weight kg
Cable ducting support	Fixing beneath head	10	AF1 XA1	0.030
M5 x 10 screw, with hexagonal slotted head	For fixing cable ducting	100	AF1 VB510	0.003
Support	For XB5 A pushbuttons, switches and pilot lights	1	DX1 AP52	0.160

(1) Body/fixing collar **ZB5 AZ009**, required for mounting, must be ordered separately, see page 43.

Control and signalling units Ø 22

Harmony® XB5, plastic

Accessories for illuminated pushbuttons: bulbs



DL1 CJ0



DL1 CE



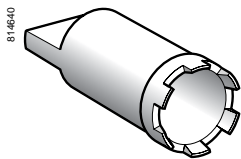
DL1 CF



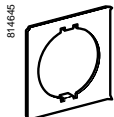
XBF X13



ZBZ 8



ZB5 AZ905



ZB5 AZ902

Bulbs with BA 9s base fitting and associated accessories

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

Description	Application	Sold in lots of	Unit reference	Weight kg
Add-on square trim				
Add-on square trim	Gives a square appearance to ZB5 A circular heads	10	ZB5 AZ31	0.002
Nut				
Nut	Head fixing	10	ZB5 AZ901	0.002
Tightening tool				
Tightening tool	Tightening head fixing nut ZB5 AZ901	1	ZB5 AZ905	0.016
Anti-rotation plate				
Anti-rotation plate	Prevents rotation of the head	10	ZB5 AZ902	0.008

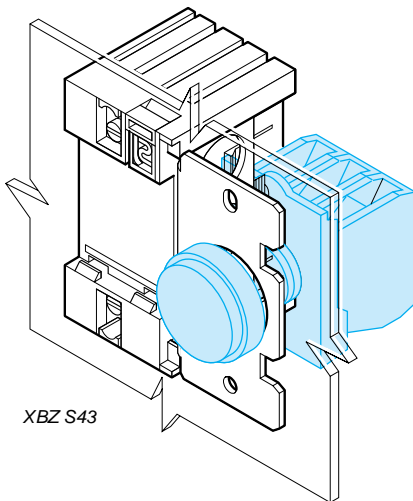
Control and signalling units Ø 22

Harmony® XB5, plastic

Accessories for pushbuttons: keys, interface module



ZBG 455P



XBZ S43

Replacement keys

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

For booted selector switches

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

Accessory for key switches

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

AS-Interface module for Ø 22 control and signalling units

Panel fixing, in conjunction with a Harmony pushbutton or switch

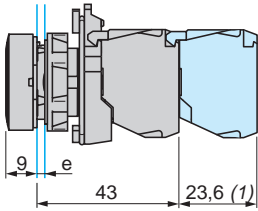
Description	Application	Reference	Weight kg
S7.F profile	4 inputs and 4 outputs direct supply from the bus	XBZ S43	0.100



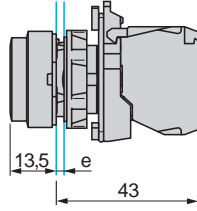
▲ Available: 4th quarter 2006.

Pushbuttons, spring return

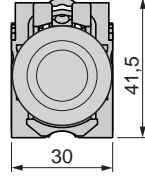
XB5 AA●●



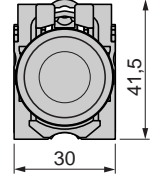
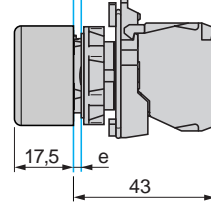
XB5 AL●●



Common face view



XB5 AP●●

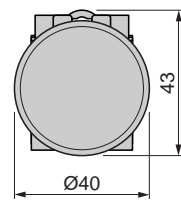
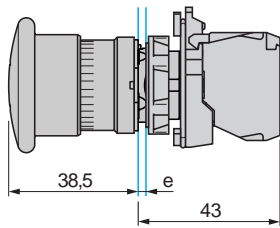


e: clamping thickness: 1 to 6 mm
(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Mushroom head pushbuttons, spring return

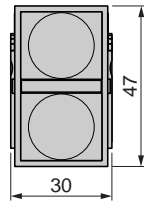
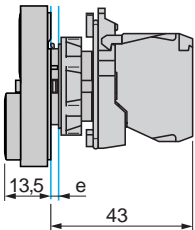
XB5 AC21



e: clamping thickness: 1 to 6 mm

Double-headed pushbuttons, spring return

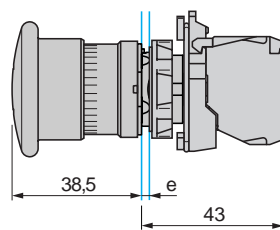
XB5 AL●45



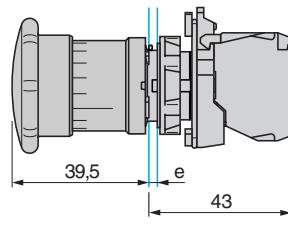
e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head pushbuttons, trigger action and mechanical latching

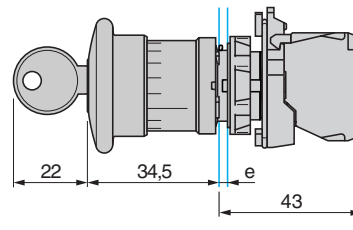
XB5 AT845



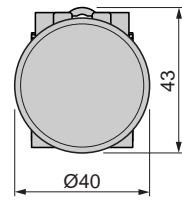
XB5 AS8445



XB5 AS9445



Common face view

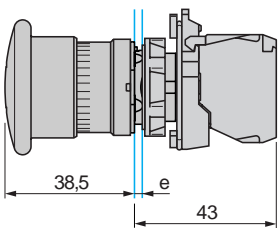


e: clamping thickness: 1 to 6 mm

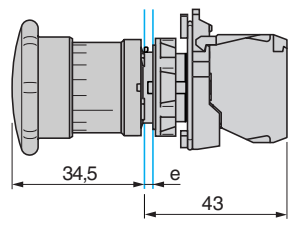
e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head pushbuttons, mechanical latching

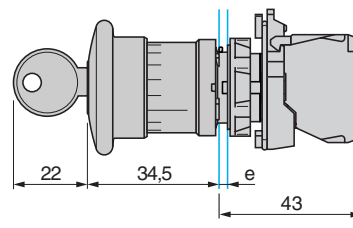
XB5 AT42



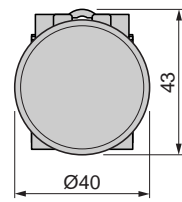
XB5 AS542



XB5 AS142



Common face view



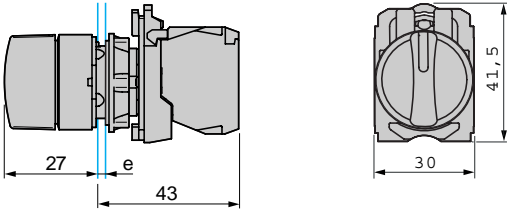
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Selector switches

Standard handle

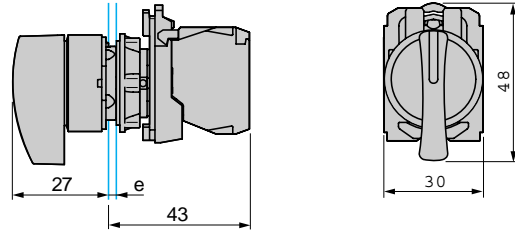
XB5 AD●●



e: clamping thickness: 1 to 6 mm

Long handle operator

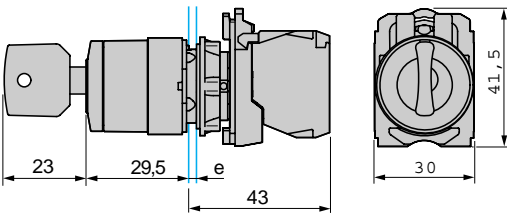
XB5 AJ●●



e: clamping thickness: 1 to 6 mm

Key switches

XB5 AG●●

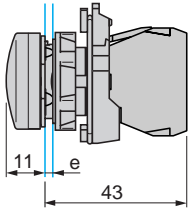


e: clamping thickness: 1 to 6 mm

Pilot lights

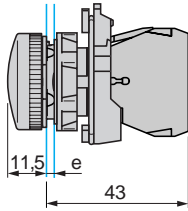
Integral LED

XB5 AVB●, AVG●, AVM●



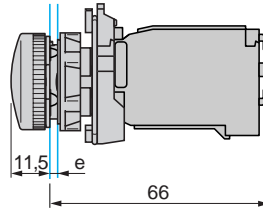
Direct supply

XB5 AV6●

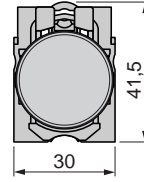


Via integral transformer

XB5 AV3●, AV4●



Common face view



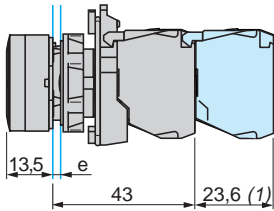
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Illuminated pushbuttons

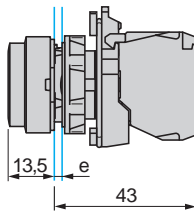
Integral LED

XB5 AW3●●5



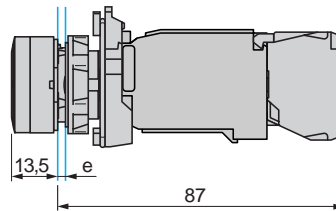
Direct supply

XB5 AW3●●5

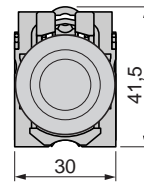


Via integral transformer

XB5 AW3●●5



Common face view



(1) Additional row of contacts or double contact.

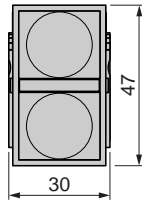
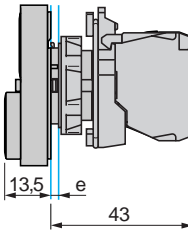
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Double-headed pushbuttons with pilot light

Integral LED

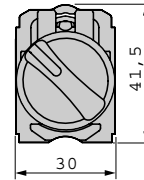
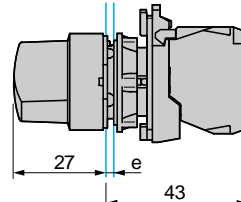
XB5 AW84●5



Illuminated selector switches

Integral LED

XB5 AK12●●5



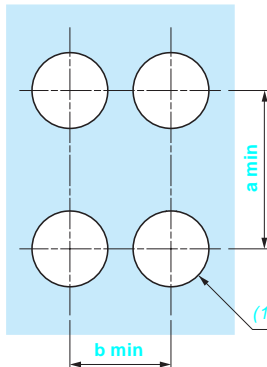
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

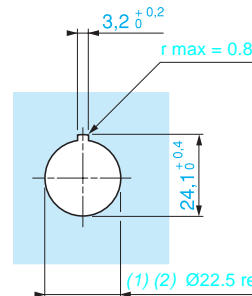
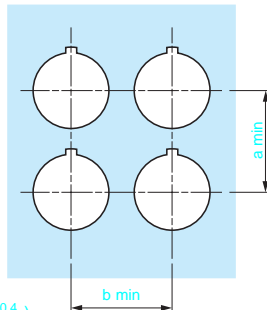
Panel cut-out for pushbuttons, switches and pilot lights (finished holes, ready for installation)

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

Detail of lug recess



(1) (2) Ø22.5 recommended (Ø22.3^{+0.4})



(1) (2) Ø22.5 recommended (Ø22.3^{+0.4})

(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 136.

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

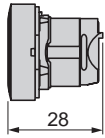
Control and signalling units Ø 22

Harmony® XB5, plastic

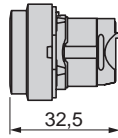
Pushbuttons, switches and pilot lights:
sub-assemblies, ZB5 A

Heads for spring return pushbuttons

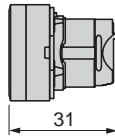
ZB5 AA●, AA●●●,
ZB5 AA●8



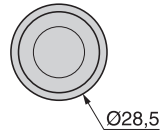
ZB5 AL●,
ZB5 AL●●



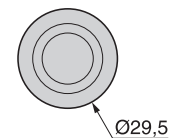
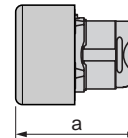
ZB5 AA●4, ZB5 AA●6



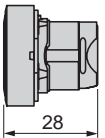
Common face view



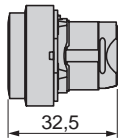
ZB5 AP●●, ZB5 AP●S, ZB5 AP●83, ZB5 AP●



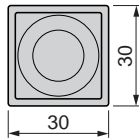
ZB5 CA●, ZB5 CA0



ZB5 CL●



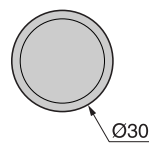
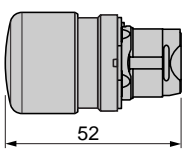
Common face view



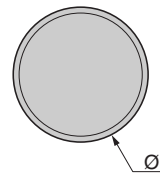
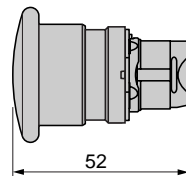
ZB5	a
AP●●	36.5
AP●S	33
AP●83	32
AP●	35

Mushroom heads for spring return pushbuttons

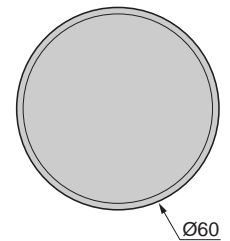
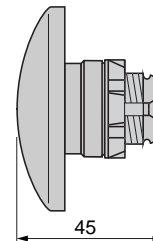
ZB5 AC●4



ZB5 AC●, AR●



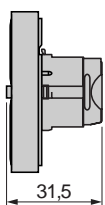
ZB5 AR●16



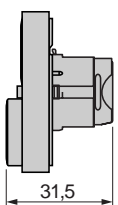
ZB5	Ø
AC●	40
AR●	60

Heads for double-headed, spring return pushbuttons

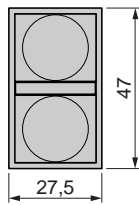
ZB5 AA81●●,
ZB5 AA82●●



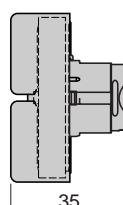
ZB5 AL83●●,
ZB5 AL84●●



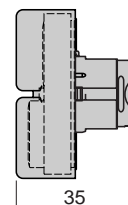
Common face view



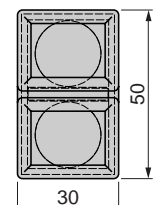
ZB5 AA91●●,
ZB5 AA92●●



ZB5 AL93●●,
ZB5 AL94●●

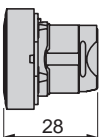


Common face view

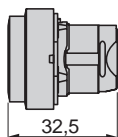


Heads for "Push-push to release" pushbuttons

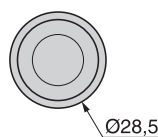
ZB5 AH0●



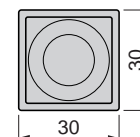
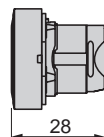
ZB5 AH●



Common face view

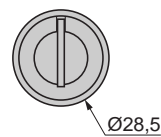
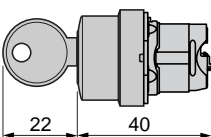


ZB5 CH0●



Heads for lockable "Push-turn" pushbuttons

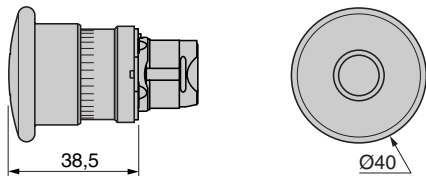
ZB5 AFD



Mushroom heads for Emergency stop trigger action and mechanical latching pushbuttons

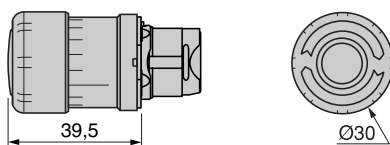
Push-pull

ZB5 AT84

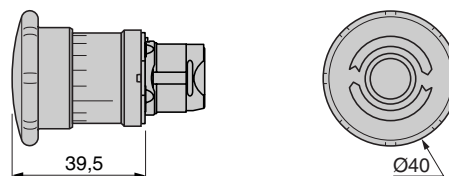


Turn to release

ZB5 AS834

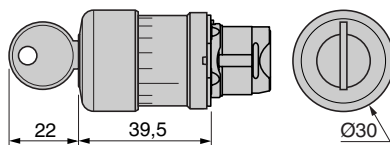


ZB5 AS844

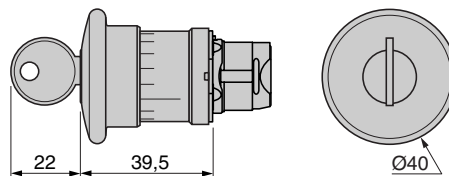


Key release

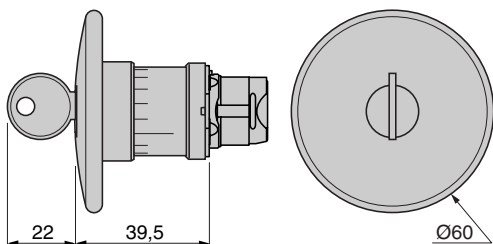
ZB5 AS934



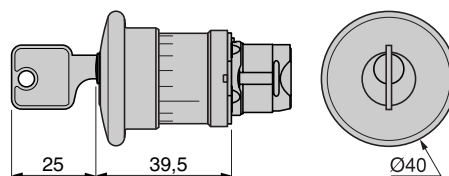
ZB5 AS944



ZB5 AS964



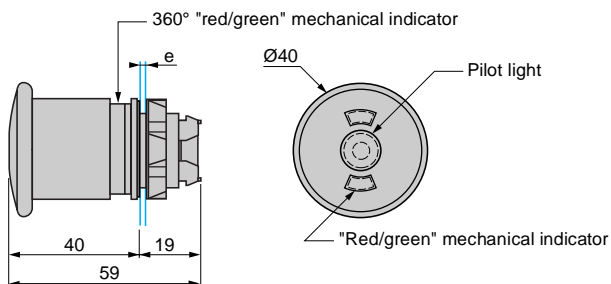
ZB5 AS944D



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

Push-pull with pilot light or mechanical state indicator

ZB5 AT8643M

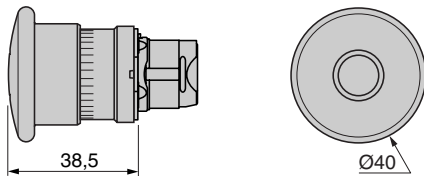


e: panel thickness 1 to 6 mm

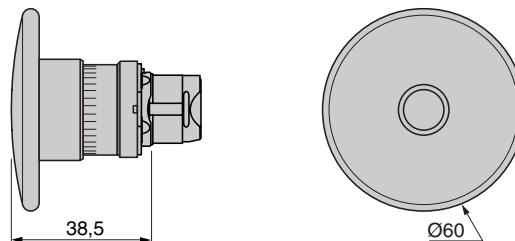
Mushroom heads for Emergency stop mechanical latching pushbuttons

Push-pull

ZB5 AT4

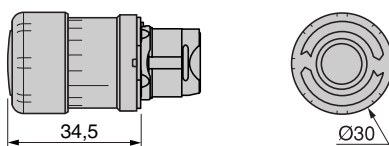


ZB5 AX4

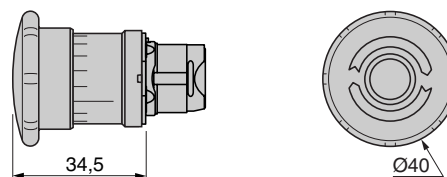


Turn to release

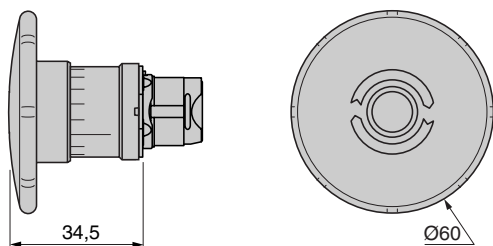
ZB5 AS44



ZB5 AS54

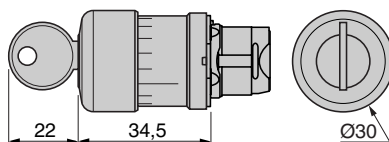


ZB5 AS64

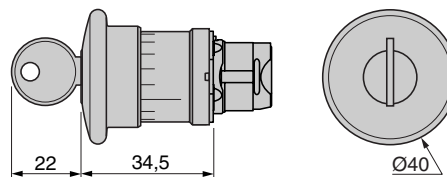


Key release

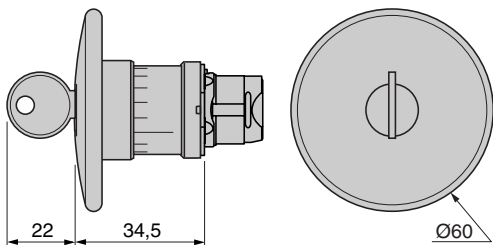
ZB5 AS74



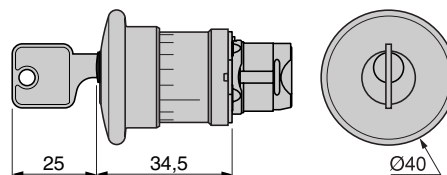
ZB5 AS14



ZB5 AS24



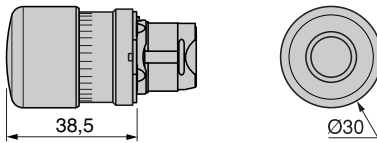
ZB5 AS14D



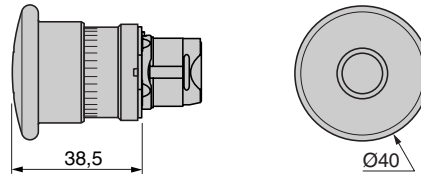
Mushroom heads for latching pushbuttons (1)

Push-pull

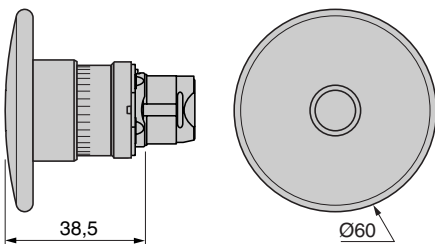
ZB5 AT24



ZB5 AT2

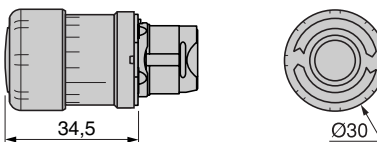


ZB5 AX2

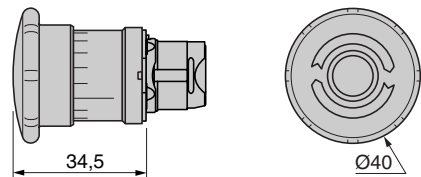


Turn to release

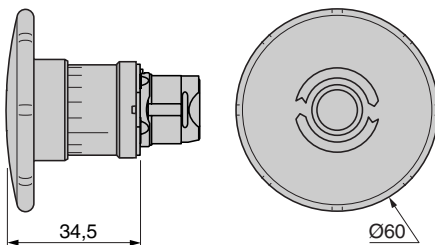
ZB5 AS42



ZB5 AS52, ZB5 AS55

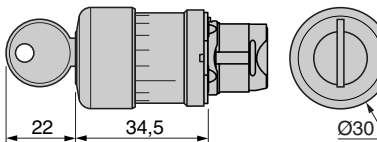


ZB5 AS62

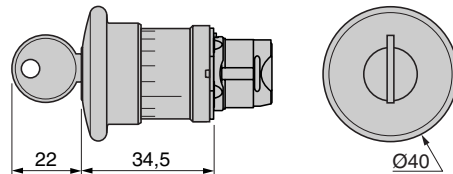


Key release

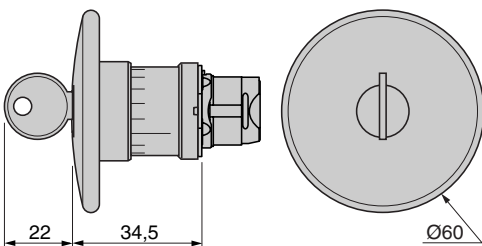
ZB5 AS72



ZB5 AS12



ZB5 AS22



(1) Red mushroom heads for Emergency stop, latching pushbuttons: see pages 142 and 143.

Heads for selector switches

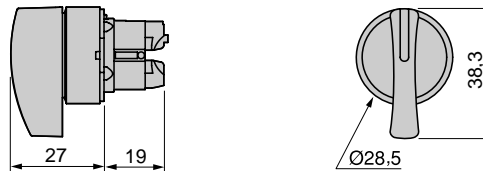
Standard handle

ZB5 AD●, ZB5 AD●M



Long handle operator

ZB5 AJ●, ZB5 AJ●M



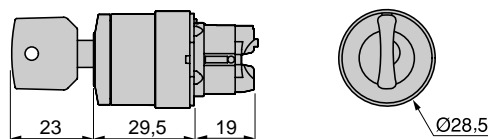
Black knurled knob

ZB5 AD●9



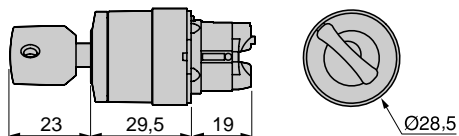
Key switch (Ronis n° 455)

ZB5 AG●, ZB5 AG0●, ZB5 AG●M



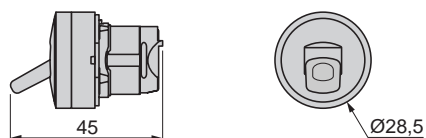
Key switch (DOM n° 8D1)

ZB5 AGD



Heads for toggle switches

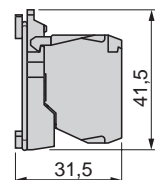
ZB5 AD●8



Bodies for pushbuttons and switches

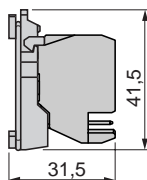
Screw clamp terminal connections

ZB5 AZ10●, ZB5 AZ141



Plug-in connector

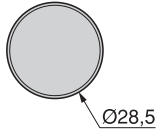
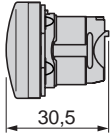
ZB5 AZ10●4, ZB5 AZ1414



Heads for pilot lights, with light source

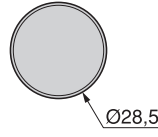
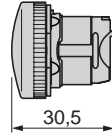
Integral LED

ZB5 AV0●3

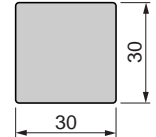
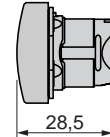


Incandescent, neon or LED

ZB5 AV0●, AV0●S



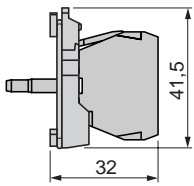
ZB5 CV0●3, CH3●3



Bodies for pilot lights, screw clamp terminal connections

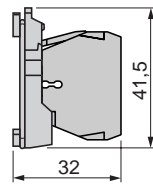
Integral LED

ZB5 AV●●



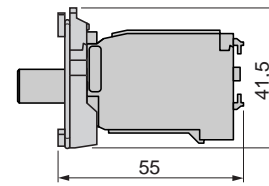
Direct supply for BA 9s bulb

ZB5 AV6



With integral transformer for BA 9s bulb

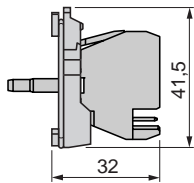
ZB5 AV●, AV●D●



Bodies for pilot lights, plug-in connector

Integral LED

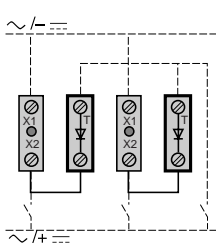
ZB5 AV●●4



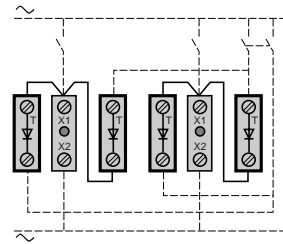
Blocks for "test light" function

Connections

ZBZ G156



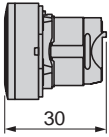
ZBZ M156



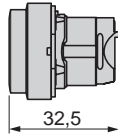
Heads for spring return illuminated pushbuttons, for light source types:

LED

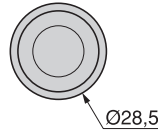
ZB5 AW3●3, AW3●3S,
ZB5 AA●8



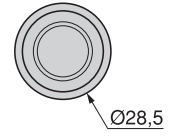
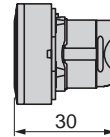
ZB5 AW1●3, ZB5 AW1●3S,
ZB5 AL●8



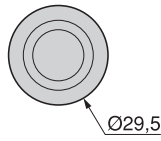
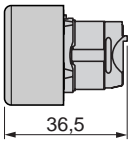
Common face view



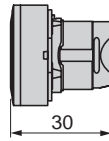
ZB5 AW9●3



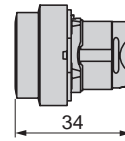
ZB5 AW5●3



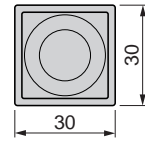
ZB5 CW3●3



ZB5 CW1●3

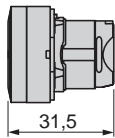


Common face view

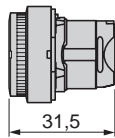


Bulb with BA 9s base fitting

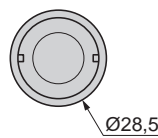
ZB5 AW3●, AW3●S



ZB5 AW1●, ZB5 AW1●S

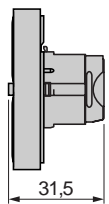


Common face view

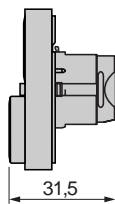


Heads for double-headed pushbuttons with pilot light

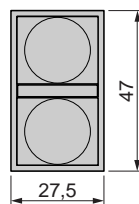
ZB5 AW81●●3,
ZB5 AW82●●3



ZB5 AW83●●3,
ZB5 AW84●●3

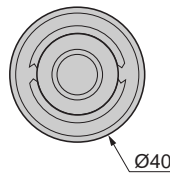
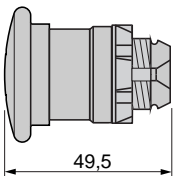


Common face view



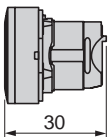
Heads for illuminated, latching, mushroom head pushbuttons

ZB5 AW7●3

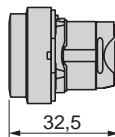


Heads for illuminated "push-push to release" pushbuttons

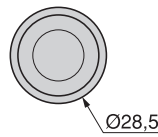
ZB5 AH0●3



ZB5 AH●3

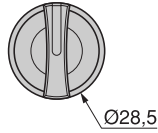
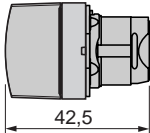


Common face view

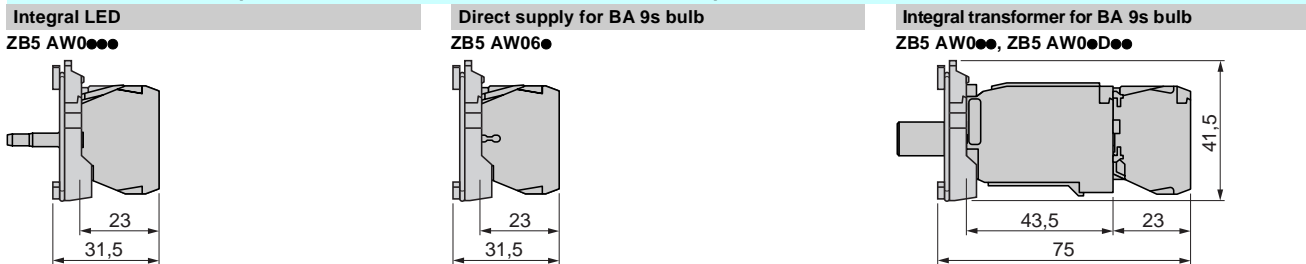


Heads for illuminated selector switches with standard handle

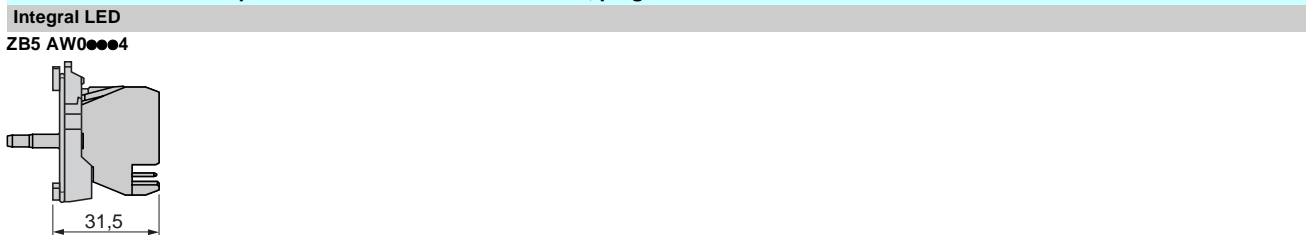
ZB5 AK1●●3



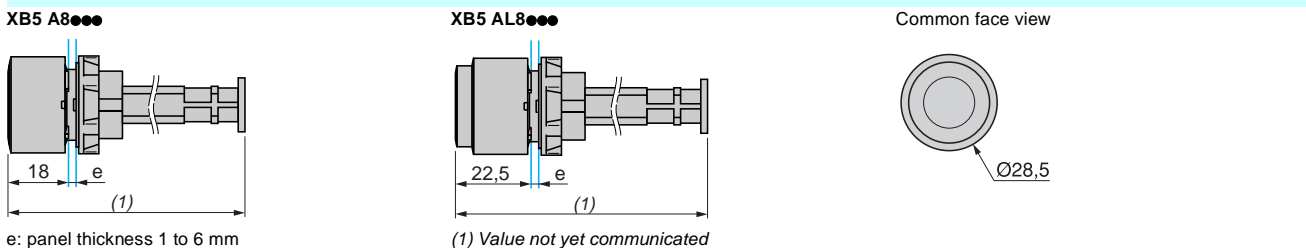
Bodies for illuminated pushbuttons and selector switches, screw clamp terminal connections



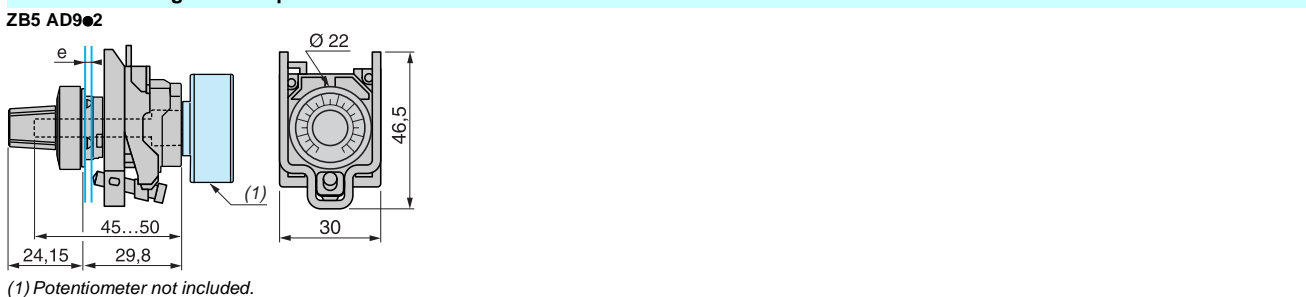
Bodies for illuminated pushbuttons and selector switches, plug-in connector



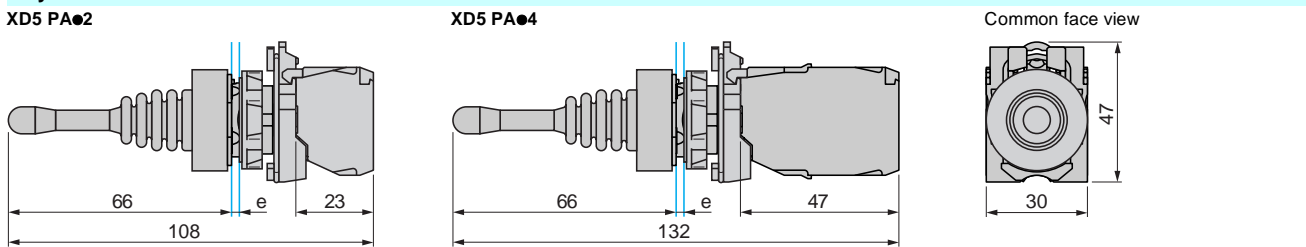
Manual overload reset buttons



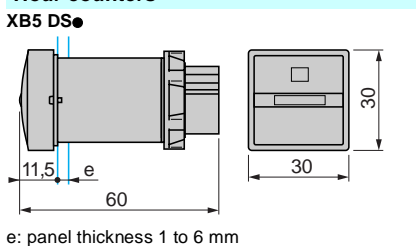
Head + mounting base for potentiometer



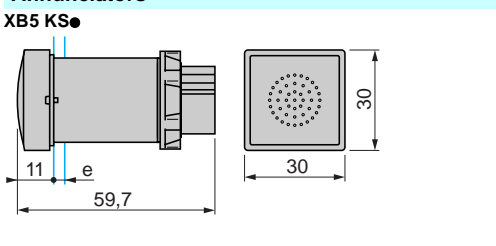
Joystick controllers



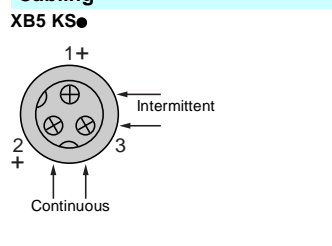
Hour counters



Annunciators



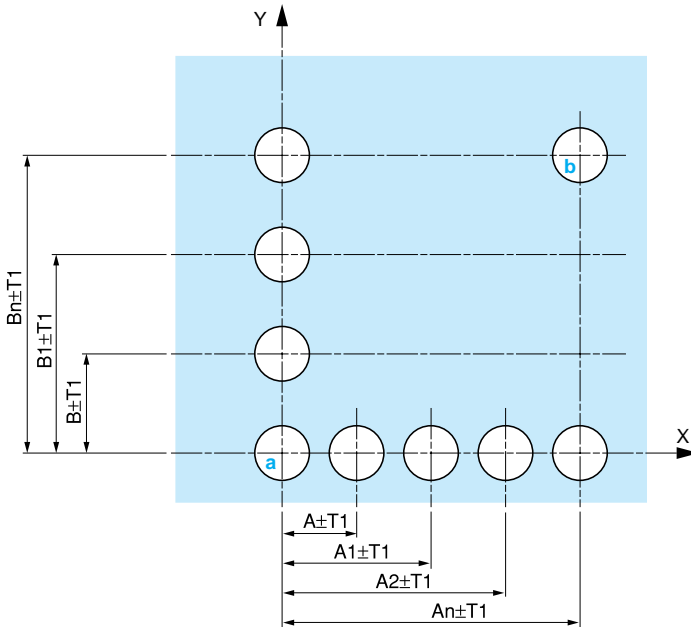
Cabling



Pushbuttons, switches and pilot lights for printed circuit board connection

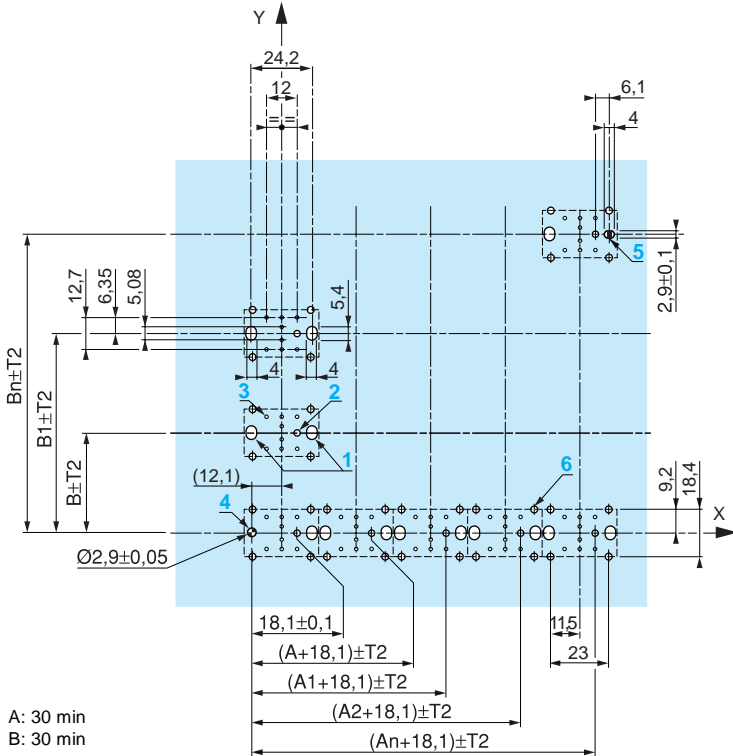
Panel cut-out (viewed from installer's side)

Dimensions in mm



Printed circuit board drillings (viewed from electrical block side)

Dimensions in mm



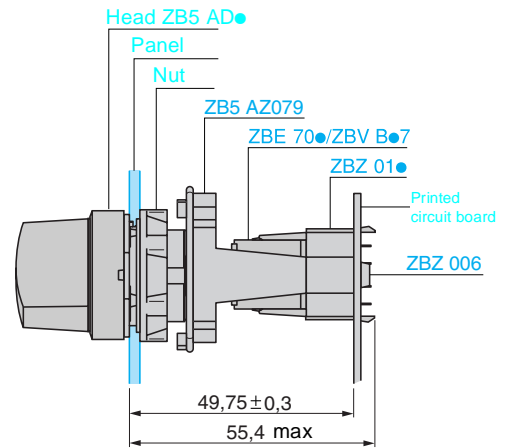
General tolerances of the panel and printed circuit board

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

■ Installation precautions:

- Minimum thickness of circuit board: 1.6 mm.
- Cut-out diameter: 22.4 mm ± 0.1 mm.
- Orientation of body/fixing collar ZB5 BZ079: ± 2° 30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB5 BZ079 fixing collar/pillar and its fixing screws:
 - every 90 mm horizontally (X), and 120 mm vertically (Y),
 - with each selector switch head (ZB5 AD●, ZB5 AJ●, ZB5 AG●).


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



■ Mounting of adapter (socket) ZBZ 01● :

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

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 holes for centring adapter ZBZ 01●.

Applications		Pilot lights	Pushbuttons, selector switches and pilot lights			
						
Description of the range		<ul style="list-style-type: none"> ■ LED pilot lights ■ Pushbuttons ■ Mushroom head Emergency Stop buttons ■ Selector switches and key switches ■ Illuminated pushbuttons ■ Pilot lights 				
Features	Products	Monolithic, compact, low consumption	Complete units or sub-assemblies (body + head)	Complete units or sub-assemblies (body + head)	Complete units or sub-assemblies (body + head)	Monolithic
	Bezel	Double insulated	Double insulated	Metal, chromium plated or black	Double insulated	Double insulated
	Shape of head	Circular	Circular, square or rectangular	Circular	Circular or square	Circular
Drilling or cut-out for fixing		Ø 8 and Ø 12	Ø 16	Ø 22	Ø 22	Ø 22 and Ø 25
Degree of protection		Conforming to IEC 60529 and NF C 20-010 IP 40 IP 65 with seal	IP 65	IP 66	IP 66	IP 54
Cabling		Tags for 2.8 x 0.5 mm connectors, or threaded connector	Faston connectors Solder pins for printed circuit boards	Screw clamp terminal connections Connector With adaptor for printed circuit board	Screw clamp terminal connections Connector With adaptor for printed circuit board	Screw clamp terminal connections
Mounting	Panel thickness	1...8 mm	1...6 mm	1...6 mm	1...6 mm	1...6 mm
	On Profil KT front panels	–	–	Yes	Yes	Yes, depending on model
Type references		XVL A	XB6	XB4	XB5	XB7 E
Pages		Consult our catalogue "Control and signalling components"		16 to 39	88 to 113	Consult our catalogue "Control and signalling components"



<ul style="list-style-type: none"> LED display (7 segment + decimal point) 	<ul style="list-style-type: none"> Pushbuttons Mushroom head Emergency Stop buttons Selector switches and key switches Illuminated pushbuttons Pilot lights 	<ul style="list-style-type: none"> 2 or 4 direction Stay put or spring return 	<ul style="list-style-type: none"> Switches Stepping switches Reversing and changeover switches Ammeter switches Voltmeter switches Reversing switches Star-delta and reversing star-delta switches Pole change switches 	<ul style="list-style-type: none"> 3 sizes of front panel for mounting 4, 8 or 12 Ø 22 mm control and signalling units With/without location for Emergency Stop pushbutton With/without printed circuit 		
Sub-assemblies (body + single-digit head)	Complete units or sub-assemblies (body + head)	Complete units or sub-assemblies (body + head with lever)	Complete units or sub-assemblies (body + front panel + head)	Aluminium front panels for mounting Ø 22 mm control and signalling units, double insulated and metal		
Double insulated	Chromium plated metal or double insulated	Chromium plated metal	Double insulated, black	Metal, chromium plated or black		
Circular	Hexagonal	Circular	Square	Double insulated		
Ø 22	Ø 30	Ø 22	Ø 16 or Ø 22: series K10 Ø 22 and multifixing: series K1/K2 4 holes, 48 or 68 centres: series K30...K150	–		
IP 65		IP 65	IP 66	IP 65		
IP 65		IP 65	IP 66	IP 65		
IP 65		IP 65	IP 66	IP 65		
IP 65: series K10 IP 40, IP 65 with seal: series K1/K2 IP 40: series K30...K150				IP 65		
Connector	Screw and captive cable clamp connections	Screw and captive cable clamp connections	Screw and captive cable clamp connections	–		
1...5 mm	1...6 mm		0.5...6 mm (depending on model)	–		
Yes	–	Yes	–	–		
ZA2 VA	9001 K, 9001 SK	XD4 PA	XD2 GA	XD5 PA	K10, K1, K2, K30, K50, K63, K115, K150	KT●

Consult our catalogue "Control and signalling components"

Product reference index

ZB4 BW333S	20	ZB5 AA8112	96	ZB5 AK1363	107	ZB5 AV033E	110	ZB5 AW0B63	118
ZB4 BW343	20	ZB5 AA8134	96	ZB5 AK1413	107	ZB5 AV033S	110	ZB5 AW0B65	118
ZB4 BW343S	20	ZB5 AA8212	97	ZB5 AK1433	107	ZB5 AV043	110	ZB5 AW0G11	118
ZB4 BW353	20	ZB5 AA8234	97	ZB5 AK1443	107	ZB5 AV043E	110	ZB5 AW0G12	118
ZB4 BW353S	20	ZB5 AA9112	96	ZB5 AK1453	107	ZB5 AV043S	110	ZB5 AW0G13	118
ZB4 BW363	20	ZB5 AA9134	96	ZB5 AK1463	107	ZB5 AV053	110	ZB5 AW0G15	118
ZB4 BW363S	20	ZB5 AA9212	97	ZB5 AK1513	107	ZB5 AV053E	110	ZB5 AW0G31	118
ZB4 BW4●3	24	ZB5 AA9234	97	ZB5 AK1533	107	ZB5 AV053S	110	ZB5 AW0G32	118
ZB4 BW5●3	20	ZB5 AC●	98	ZB5 AK1543	107	ZB5 AV063	110	ZB5 AW0G33	118
ZB4 BW643	27	ZB5 AC24	98	ZB5 AK1553	107	ZB5 AV063E	110	ZB5 AW0G35	118
ZB4 BW811723	22	ZB5 AC34	98	ZB5 AK1563	107	ZB5 AV063S	110	ZB5 AW0G41	118
ZB4 BW812743	22	ZB5 AC44	98	ZB5 AK1713	107	ZB5 AV156	123	ZB5 AW0G42	118
ZB4 BW813743	22	ZB5 AC54	98	ZB5 AK1733	107	ZB5 AV18B●	122	ZB5 AW0G43	118
ZB4 BW821723	23	ZB5 AC64	98	ZB5 AK1743	107	ZB5 AV18G●	122	ZB5 AW0G45	118
ZB4 BW822743	23	ZB5 AD●	104	ZB5 AK1753	107	ZB5 AV18M●	122	ZB5 AW0G51	118
ZB4 BW823743	23	ZB5 AD28	105	ZB5 AK1763	107	ZB5 AV3D●	123	ZB5 AW0G52	118
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