

Environment			
Protective treatment standard version			"TH" treatment
Ambient air temperature around the device	Storage	°C	- 40...+ 70
	Operation	°C	- 25...+ 70: LED and neon bulb versions - 25...+ 55: incandescent bulb version
Electric shock protection	Conforming to IEC 61140		Class I
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switches and multiple-headed pushbuttons)
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
Resistance to high pressure washer		Pa	70 x 10 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	UL, CSA, GOST, CCC and C€		EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5, EN/IEC 60204-1 and EN/ISO 13850 (Emergency stop trigger action and mechanical latching pushbuttons, see page 1/68), IEC 60364-5-53 (Emergency switching off mechanical latching pushbuttons, see page 1/69) UL 508, CSA C22-2 n° 14, GB 14048.5
Product certifications	UL Listed, CSA		Standard single contacts with screw clamp and spring terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD4 PA/ZD4 PA: A600; R300 Special contact blocks: □ ZBE 201: A300; Q300 □ ZBE 202: A600; Q600 Single contacts for high power switching: □ ZBE 501 and ZBE 502: A300; P300
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300
	BV, RINA, LROS, DNV, GL, GOST, CCC		Standard single contacts and double contacts with screw clamp or spring terminals:
Terminal referencing	Conforming to EN 50005 and EN 50013		

Characteristics of contact or combined contact and signalling functions (see page 1/56)			
Mechanical characteristics			
Contact operation	N/C or N/O		Slow break
Positive operation	Conforming to EN/IEC 60947-5-1 appendix K		All functions incorporating a N/C contact have positive opening operation
Operating travel (to change the electrical state)	Pushbutton	mm	Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3
Operating force	Pushbutton	N	Changing N/C state: 3.5 Changing N/O state: 3.8
	Additional contact only (extra to change state)	N	Single N/C contact: 2 Single N/O contact: 2.3
		N	Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6
	Emergency stop or Emergency switching off with N/C + N/O	N	Standard push-pull: 45 Trigger action push-pull: 50
		N	Standard turn to release and key release: 40 Trigger action turn to release and key release, "trigger action": 44

Characteristics of contact or combined contact and signalling functions (continued) (see page 1/56)

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
		Multiple-headed		1
		Push-push to release		0.5
	Selector switch	Non illuminated		1
		Illuminated		0.5
	Toggle switch			0.5
	Emergency Stop or Emergency switching off pushbutton			0.3 with 3 contacts
	Joystick controller			1
	Standard contact block only			5
	Low power switching contact block only (dust protected)			0.5
Vibration resistance	Conforming to IEC 60068-2-6			Frequency: 2 to 500 Hz: 5 gn
Mechanical shock resistance	Conforming to IEC 60068-2-27			All functions except mushroom head pushbuttons, spring return: □ half sine wave acceleration 11 ms: 50 gn □ half sine wave acceleration 18 ms: 30 gn
				Mushroom head pushbutton, spring return: □ half sine wave acceleration 11 ms: 10 gn
Electrical characteristics				
Cabling capacity	Conforming to EN/IEC 60947-1		mm ²	Standard block with screw clamp or spring terminals: Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screws (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (maxi 1.2 N.m) Contact blocks for high power switching: Min: 1 x 0.5 without cable end Max: 2 x 2.5 with or without cable end
Contact material	Silver alloy (Ag / Ni)			Standard single and double blocks with screw clamp or spring terminals Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)			Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection
Short-circuit protection	Conforming to EN/IEC 60947-5-1		A	Standard single and double blocks with screw clamp or spring terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector: 4 (gG cartridge fuse conforming to IEC 60269-1) Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)
Rated thermal current	Conforming to EN/IEC 60947-5-1		A	Standard single and double blocks with screw clamp or spring terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6
Rated insulation voltage	Conforming to EN/IEC 60947-1		V	Standard single and double blocks with screw clamp or spring terminals: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston connectors: Standard blocks for printed circuit board connection Contact blocks for high-power switching: Ui = 250, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1		kV	Standard single and double blocks with screw clamp or spring terminals:Uimp = 6 Blocks for plug-in connector Standard blocks for printed circuit board connection Contact blocks for high-power switching aplications: Uimp = 4

Characteristics of contact or combined contact and signalling functions (continued) (see page 1/56)

Electrical characteristics (continued)

Rated operational characteristics

Conforming to EN/IEC 60947-5-1

a.c. supply:
utilisation category AC-15

Standard single and double blocks with screw clamp or spring terminals:
A600: $U_e = 600\text{ V}$ and $I_e = 1.2\text{ A}$ or
 $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$ or
 $U_e = 120\text{ V}$ and $I_e = 6\text{ A}$
Blocks for plug-in connector:
A300: $U_e = 120\text{ V}$ and $I_e = 6\text{ A}$ or
 $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$
Standard blocks for printed circuit board connection:
B300: $U_e = 120\text{ V}$ and $I_e = 3\text{ A}$ or
 $U_e = 240\text{ V}$ and $I_e = 1.5\text{ A}$
Special contact blocks:
□ ZBE 201: A300: $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$ or
 $U_e = 120\text{ V}$ and $I_e = 6\text{ A}$ (with insulation
voltage $U_i = 500\text{ V}$)
□ ZBE 202: A600: $U_e = 600\text{ V}$ and $I_e = 1.2\text{ A}$ or
 $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$ or $U_e = 120\text{ V}$ and $I_e = 6\text{ A}$
Contact blocks for high power switching:
□ ZBE 50: A300: $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$ or
 $U_e = 120\text{ V}$ and $I_e = 6\text{ A}$

d.c. supply:
utilisation category DC-13

Standard single and double blocks with screw clamp or spring terminals
Q600: $U_e = 600\text{ V}$ and $I_e = 0.1\text{ A}$ or
 $U_e = 250\text{ V}$ and $I_e = 0.27\text{ A}$ or
 $U_e = 125\text{ V}$ and $I_e = 0.55\text{ A}$
Joystick controllers XD4 PA/ZD4 PA:
R300: $U_e = 125\text{ V}$ and $I_e = 0.22\text{ A}$ or
 $U_e = 250\text{ V}$ and $I_e = 0.1\text{ A}$
Blocks for plug-in connector:
R300: $U_e = 125\text{ V}$ and $I_e = 0.22\text{ A}$ or
 $U_e = 250\text{ V}$ and $I_e = 0.1\text{ A}$
Standard blocks for printed circuit board connection:
R300: $U_e = 125\text{ V}$ and $I_e = 0.22\text{ A}$ or
 $U_e = 250\text{ V}$ and $I_e = 0.1\text{ A}$
Special contact blocks:
□ ZBE 201: Q300: $U_e = 125\text{ V}$ and $I_e = 0.55\text{ A}$ or
 $U_e = 250\text{ V}$ and $I_e = 0.27\text{ A}$
□ ZBE 202: Q600: $U_e = 600\text{ V}$ and $I_e = 0.1\text{ A}$ or
 $U_e = 250\text{ V}$ and $I_e = 0.27\text{ A}$ or
 $U_e = 125\text{ V}$ and $I_e = 0.55\text{ A}$
Contact block for high power switching:
□ ZBE 50: P300: $U_e = 125\text{ V}$ and $I_e = 1.1\text{ A}$ or
 $U_e = 250\text{ V}$ and $I_e = 0.55\text{ A}$

Characteristics of special contact blocks

Low power switching

VA
A
V

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

High power switching
Conforming to
EN/IEC 60947-5-1

100 000 operating cycles
Load factor: 0.5
Operating rate: 900 cycles/hour

VA
A
V

P max: 240
I max: 10
U: 24 ---

Electrical durability

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

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

V
A

Standard single blocks with screw clamp or spring terminals:

24	120	230
4	3	2

V
A

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

24	120	230
3	1.5	1

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

V
A

Standard single blocks with screw clamp or spring terminals:

24	110
0.5	0.2

V
A

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

24	110
0.4	0.15

Electrical reliability

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

In clean environment

Standard blocks

- at 17 V and 5 mA, with confidence level of 90 %:
 $\lambda_{90} = 10^{-8}$, defect contact voltage drop = 1.7 V
- at 5 V and 1 mA, with confidence level of 90 %:
 $\lambda_{90} = 10^{-7}$, defect contact voltage drop = 1 V
At 5 V and 1 mA, with confidence level of 90 %:
 $\lambda_{90} = 5 \cdot 10^{-8}$, defect contact voltage drop = 1 V

Special blocks with gold flashed contacts for low power switching

At 5 V and 1 mA, with confidence level of 90 %:
 $\lambda_{90} = 5 \cdot 10^{-8}$, defect contact voltage drop = 1 V

In dusty environment

Special blocks with gold flashed contacts and dust protection for low power switching only

At 5 V and 1 mA, $\lambda < 10^{-7}$

Characteristics of illuminated units (pilot lights)

Mechanical characteristics

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

Electrical characteristics

Cabling capacity	Conforming to EN/IEC 60947-1	mm ²	Screw clamp and spring terminals Min: 1 x 0.22 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end
Rated insulation voltage	Conforming to EN/IEC 60947-1	V	Direct supply pilot light blocks (BA 9s bulb): U _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 EN/IEC 60947-1	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 ~ and 10.2 to 13.8 ~ 24 V: 19.2 to 30 ~ and 21.6 to 26.4 ~ 24 to 120 V: 19.2 to 132 ~ and 21.6 to 132 ~ 110 to 120 V: 94 to 132 ~ 230/240 V: 195 to 264 ~
Current consumption	Applicable to all colours	mA	Blocks with ~ 12 V supply: 18 Blocks with ~ 24 V supply: 18 Blocks with ~ 120 V supply: 14 Blocks with ~ 240 V supply: 14
Service life	At rated voltage and at an ambient temperature of 25 °C	H	100 000
Surge withstand	Conforming to IEC 61000-4-5	kV	1
Resistance to fast transients	Conforming to IEC 61000-4-4	kV	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	V/m	10
Resistance to electrostatic discharges	Conforming to IEC 61000-2-6	kV	8: in free air, in insulating parts 6: on contact, on metal parts
Direct parallel connection across inductive load e.g.: contactor coil or solenoid	Maximum power of load	VA	For high power applications (≥ 30 VA), a ZBZ V● LED suppressor must be connected across the light block terminals (see page 1/83)
Electromagnetic emission	Conforming to IEC 55011		Class B

Specific characteristics

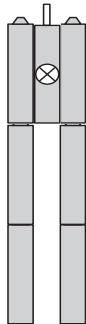
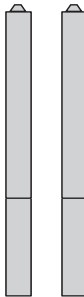
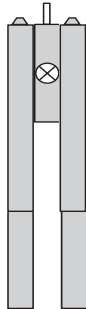
Body/fixing collar

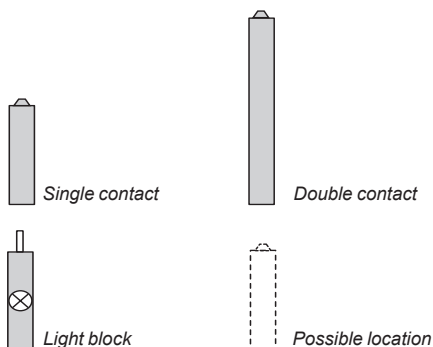
Tightening torque of fixing screw		N.m	0.8 (max 1.2)
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Hour counters and annunciators

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

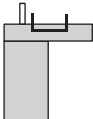
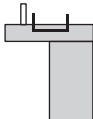
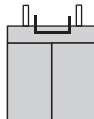
Maximum recommended configurations guaranteeing achievement of catalogue characteristics

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

Possible configurations for high power switching contacts ^{(1) (2)}

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

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

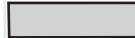
		
1 N/O	1 N/C	1 N/O + N/C 1 N/O + N/O 1 N/C + N/C

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

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

Emergency stop or Emergency switching off XB4BT●, ZB4BT●, XB4BS●, ZB4BS●		Selector switches ■ 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, 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	Top															
		Bottom															
	Location	L	C	R	L	C	R	L	C	R	L	C	R	L	C	R	
	State	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1
Contacts	N/O	☐	☐	☐	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	☒	☒	
	N/C	☒	☒	☒	☐	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐	☐	
L left, C centre, R right																	
☐ open, ☒ closed																	

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

1



XB4 BA31



ZB4 BA0



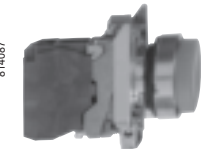
ZB4 BA4



ZB4 BA38



ZB4 BA34



XB4 BL42



ZB4 BL1

Pushbuttons with flush push ⁽¹⁾

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

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
						kg
		N/O	N/C			
Complete units						
	Flush	1	–	White	XB4 BA11 (ZB4 BZ101 + ZB4 BA1)	0.080
				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
		–	1	Red	XB4 BA42 (ZB4 BZ102 + ZB4 BA4)	0.080

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 projecting push ⁽¹⁾

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

Shape of head	Type of push	Type of contact		Colour of push	Reference	Weight
						kg
		N/O	N/C			
Complete units						
	Projecting	–	1	Red	XB4 BL42 (ZB4 BZ102 + ZB4 BL4)	0.081
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

Heads with black metal bezel

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

Example: **ZB4 BA0** becomes **ZB4 BA07**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

(2) Coloured cap to be ordered separately: see page 1/94.

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

(4) For legend ordering information, see page 1/101.



ZB4 BA36

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

Pushbuttons with silicone booted head for severe environments ⁽¹⁾

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

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

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

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

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

	Flush	Coloured boot ⁽⁴⁾	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
		Clear membrane ⁽⁴⁾ For insertion of protected legend within head ⁽³⁾	White	ZB4 BP183	0.026
			Green	ZB4 BP383	0.026
			Red	ZB4 BP483	0.026
			Yellow	ZB4 BP583	0.026
			Blue	ZB4 BP683	0.026

Heads with black metal bezel

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

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

⁽¹⁾ Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

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

⁽⁴⁾ Replacement of silicone protection element without dismantling head, see page 1/95.



ZB4 BP18



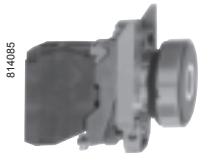
ZB4 BP2S



ZB4 BP183

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

1



XB4 BA4322



ZB4 BA331



ZB4 BA334



ZB4 BL432

Pushbuttons with flush or projecting push (1)

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

Shape of head	Type of push	Type of contact		Marking Text (colour)	Colour of push	Reference	Weight
							kg
		N/O	N/C				
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	1	"O" (white)	Red	XB4 BL4325 ▲ (ZB4 BZ105 + 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
				↑ (black) (2)	White	ZB4 BA334	0.029
				↓ (white) (2)	Black	ZB4 BA335	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

Heads with black metal bezel

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

- (1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.
(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

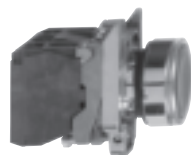
▲ Available: 1st quarter 2011.

Assembly of other products using:
body/contact assemblies: see page 1/82
combined sub-assemblies: see page 1/88
accessories: see page 1/94

Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated pushbuttons, spring return, with integral LED



XB4 BW33B5



XB4 BW34G5

Illuminated pushbuttons with flush push ⁽¹⁾							
Screw clamp terminal connections (Schneider Electric anti-retightening system)							
Shape of head	Description	Type of contact		Supply voltage	Colour of push	Reference	Weight
							
		N/O	N/C	V			kg
Complete units - With plain lens							
	Integral LED	1	1	~ 24 50/60 Hz	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
				~ 110...120 50/60 Hz	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 50/60 Hz	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 1/56.

Assembly of other products using:
combined sub-assemblies: see page 1/88
accessories: see page 1/94

1



ZB4 BW333



ZB4 BW563



ZB4 BW113

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 (IP 69K)	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⁾ (IP 69K)	White	ZB4 BA18	0.028
		Green	ZB4 BA38	0.028
		Red	ZB4 BA48	0.028
		Orange	ZB4 BA58	0.028
		Blue	ZB4 BA68	0.028

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

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

Illuminated pushbuttons with projecting push ⁽¹⁾

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

Heads with black metal bezel

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

Example: ZB4 BW313 becomes ZB4 BW3137.

Example 2: ZB4 BW313S becomes ZB4 BW313S7.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

(3) For legend ordering information, see page 1/96.

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

Assembly of other products using:
combined sub-assemblies: see page 1/88
accessories: see page 1/94

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 (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact		Supply voltage	Colour of push	Reference	Weight
							
		N/O	N/C	V			kg
Complete units - With plain lens							
	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
				~230 50 Hz ~220...240 60 Hz	White	XB4 BW3145 (ZB4 BW045 + ZB4 BW31)	0.170
					Green	XB4 BW3345 (ZB4 BW045 + ZB4 BW33)	0.170
					Red	XB4 BW3445 (ZB4 BW045 + ZB4 BW34)	0.170
					Orange	XB4 BW3545 (ZB4 BW045 + ZB4 BW35)	0.170

XB4 BW3545

Heads only ⁽²⁾ - With plain lens

	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

ZB4 BW33

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

	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

	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

ZB4 BW14

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

	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 from above.

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

⁽¹⁾ Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

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

User assembly of other units, using:
body-contact assemblies: see page 1/82
combined sub-assemblies: see page 1/88

1



XB4 BL73415



ZB4 BA7121



ZB4 BL7341



XB4 BW73731B5



ZB4 BW7A1721



ZB4 BW7A3741

Double-headed pushbuttons (1)**Screw clamp terminal connections (Schneider Electric anti-retightening system)**

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

Complete units

	2 pushes (1 flush black + 1 projecting red)	1	1	White "I" on green background White "0" on red background	XB4 BL73415	0.116
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Heads only

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

Double-headed pushbuttons + 1 white central pilot light block (1)**Screw clamp terminal connections (Schneider Electric anti-retightening system)**

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

Complete units

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

Heads only (5)

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

Heads with black metal bezelTo order, add the suffix 7 to the references selected above. Example: **ZB4 BA7120** becomes **ZB4 BA71207**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

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

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

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

User assembly of other units, using:
body-contact assemblies: see page 1/82
combined sub-assemblies: see page 1/88

Triple-headed pushbuttons (1) (2)

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

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

Complete units

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

Heads only

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

Specific accessories for multiple-headed pushbuttons

Description	Background colour	Marking	Sold in lots of	Reference	Weight
Caps only for clip-on mounting (5) on: - ZB4 BA79 double-headed pushbuttons - ZB4 BW7A9 double-headed pushbuttons + central pilot light block - ZB4 BA791 triple-headed pushbuttons	White	Unmarked	10	ZBA 71	0.010
		"I" black	10	ZBA 7131	0.010
		"→" black	10	ZBA 7134	0.010
		"+" black	10	ZBA 7138	0.010
	Black	Unmarked	10	ZBA 72	0.010
		"O" white	10	ZBA 7232	0.010
		"+" white	10	ZBA 7233	0.010
		"→" white	10	ZBA 7235	0.010
	Green	"I" white	10	ZBA 7237	0.010
		Unmarked	10	ZBA 73	0.010
		"I" white	10	ZBA 7331	0.010
		"+" white	10	ZBA 7333	0.010
	Red	"↑" white	10	ZBA 7335	0.010
		"II" white	10	ZBA 7336	0.010
	Yellow	Unmarked	10	ZBA 74	0.010
		"O" white	10	ZBA 7432	0.010
	Blue	Unmarked	10	ZBA 75	0.010
		Unmarked	10	ZBA 76	0.010

Clear silicone boots(6)	For 2 flush pushes	—	10	ZBA 708	0.055
	For 3 pushes	—	10	ZBA 709	0.055
	For 1 flush push + 1 projecting push	—	10	ZBA 710	0.055

Heads with black metal bezel

To order, add the suffix 7 to the references selected above.

Example: **ZB4 BA73132** becomes **ZB4 BA731327**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

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

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

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

(6) Can be replaced without dismantling the head.



XB4 BA731327



ZB4 BA73133



ZB4 BA71124



ZBA 7235



ZBA 7432



ZBA 709

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

1



XB4 BC21



ZB4 BC24



ZB4 BC2



ZB4 BR2



ZB4 BR216



ZB4 BW443

Mushroom head pushbuttons (1) (2)

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

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

Complete units

	Mushroom head	1	—	40	Black	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
	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

Protected
LED

Heads with black metal bezel

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

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

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

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

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

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

Control and signalling units Ø 22

Harmony® XB4, metal

Mushroom head pushbuttons, latching

1

Mushroom head pushbuttons (1) (2)

Shape of head	Type of reset	Push Ø (mm)	Colour	Reference	Weight kg
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
		60	Black	ZB4 BS62	0.090
	Key release (key n° 455) (2 keys included with head) (3)	30	Black	ZB4 BS72	0.066
		40	Black	ZB4 BS12 (4)	0.070
		60	Black	ZB4 BS22	0.090

Illuminated mushroom head pushbuttons (1) (2)

Integral LED

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

Heads with black metal bezel

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

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

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

(2) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

(4) Other key numbers:

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

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

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

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

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

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

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see pages 1/102 and 1/103

Control and signalling units Ø 22

Harmony® XB4, metal

Emergency stop devices

Conforming to EN/IEC 60204-1 and

EN/ISO 13850 and Machinery Directive 2006/42/EC

1

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

Emergency stop trigger action and mechanical latching pushbuttons ^{(1) (2)}

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

Shape of head	Type of reset	Type of contact		Push		Reference	Weight kg
				Ø (mm)	Colour		

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)  (3)	1	1	40	Red	XB4 BS9445 (ZB4 BZ105 + ZB4 BS944)	0.170

Heads only

Shape of head	Type of reset	Push		Reference	Weight kg
		Ø mm	Colour		
	Push-pull	30	Red	ZB4 BT844	0.078
		40	Red	ZB4 BT84	0.078
		60	Red	ZB4 BX84	0.098
	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 (5)  (3)	30	Red	ZB4 BS934	0.094
		40	Red	ZB4 BS944 (4)	0.098
		60	Red	ZB4 BS964	0.118

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

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

Heads with black metal bezel

To order, add a figure 7 to the references selected above.
Example: **ZB4 BT844** becomes **ZB4 BT8447**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

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

(4) Other key numbers:

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

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

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

(6) Not compatible with Ø 30 pushbutton.

Assembly of other products using:
body/contact assemblies: see page 1/82
combined sub-assemblies: see page 1/86
accessories: see pages 1/102 and 1/103

Control and signalling units Ø 22

Harmony® XB4, metal

Emergency switching off devices

Conforming to IEC 60364-5-53

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

Emergency switching off, mechanical latching pushbuttons ^{(1) (2)}

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

Shape of head	Type of reset	Type of contact		Push Ø mm	Colour	Reference	Weight kg
							
		N/O	N/C				
Complete units							
 XB4 BS542	Push-pull	—	1	40	Red	XB4 BT42 (ZB4 BZ102 + ZB4 BT4)	0.125
 ZB4 BT4	Turn to release	—	1	40	Red	XB4 BS542 (ZB4 BZ102 + ZB4 BS54)	0.118
 ZB4 BS64	Key release (key n° 455)  (3)	—	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
 ZB4 BS74	Key release (key n° 455) 2 keys included with head (5)  (3)			30	Red	ZB4 BS74	0.066
				40	Red	ZB4 BS14 (4)	0.070
				60	Red	ZB4 BS24	0.090

Illuminated Emergency switching off, mechanical latching pushbuttons ⁽¹⁾

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

Shape of head	Type of reset	Push Ø mm	Colour	Reference	Weight kg
Heads only (6)					
	Push-pull	40	Red	ZB4 BW643	0.051

Heads with black metal bezel

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

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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

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

(4) Other key numbers:

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

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

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

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

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

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

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

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

1

814154



ZB4 BH02

Pushbuttons with flush push (1)

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

Pushbuttons with projecting push (1)

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

523792



ZB4 BH6

Heads with black metal bezel

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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

(2) Caps to be ordered separately, see page 1/94.

Assembly of other products using:
combined sub-assemblies: see page 1/82
accessories: see page 1/94

Control and signalling units Ø 22

Harmony® XB4, metal

Illuminated pushbuttons, push-push, with integral LED



ZB4 BH033

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



ZB4 BH63

Heads with black metal bezel

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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

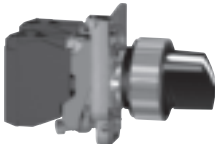
Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

Control and signalling units Ø 22

Harmony® XB4, metal
Selector switches with standard handle

1

106188



XB4 BD33

106195



ZB4 BD4

Selector switches with standard handle (1)

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

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

Complete units

	Standard handle, black	1	–	2-position 90°	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 ± 45°	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 90°	Stay put		ZB4 BD2	0.040
					Spring return from right to left		ZB4 BD4	0.045
				3-position ± 45°	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

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

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

Control and signalling units Ø 22

Harmony® XB4, metal

Selector switches with long handle: normal and padlockable

1

Selector switches with long handle ⁽¹⁾

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

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

Complete units

	Long handle, black	1	—	2-position 90°	Stay put	 XB4 BJ21 (ZB4 BZ101 + ZB4 BJ2)	0.096
		2	—	3-position ± 45°	Stay put	 XB4 BJ33 (ZB4 BZ103 + ZB4 BJ3)	0.096
					Spring return to centre	 XB4 BJ53 (ZB4 BZ103 + ZB4 BJ5)	0.096

Heads only

	Long handle, black			2-position 90°	Stay put	 ZB4 BJ2	0.040
					Spring return from right to left	 ZB4 BJ4	0.045
				3-position ± 45°	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 90°	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 ± 45°	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 from above.

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

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

(2) The symbol  indicates the padlocking positions.



ZB4 BJ21



ZB4 BJ3



ZB4 BJ291

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

Control and signalling units Ø 22

Harmony® XB4, metal

Key switches

Key n° 455, 421E, 458A, 520E, 3131A

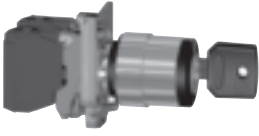
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Key switches (1) (2)

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

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

Complete units

		1	—	2-position 90°	Stay put		XB4 BG21 (ZB4 BZ101 + ZB4 BG2)	0.153
							XB4 BG41 (ZB4 BZ101 + ZB4 BG4)	0.153
					Spring return to left		XB4 BG61 (ZB4 BZ101 + ZB4 BG6)	0.153
							XB4 BG03 (ZB4 BZ103 + ZB4 BG0)	0.153
		2	—	3-position ± 45°	Stay put		XB4 BG33 (ZB4 BZ103 + ZB4 BG3)	0.153
								

Heads only

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

Heads with black metal bezel

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

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

(3) Other key numbers:

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

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

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

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

Control and signalling units Ø 22

Harmony® XB4, metal

Key switches with key TEC10

Selector switches with knurled knob - Toggle switches

Key switches with key TEC10

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

Selector switches with knurled knob (1)

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

Toggle switches (1)

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

Heads with black metal bezel

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

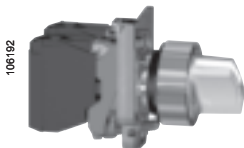
For the references with key TEC10, add the 7 before TEC10.
Example: ZB4 BG2TEC10 becomes ZB4 BG27TEC10.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

Assembly of other products using:
combined sub-assemblies: see page 1/82
accessories: see page 1/94

Control and signalling units Ø 22
Harmony® XB4, metal
Illuminated selector switches with standard handle,
with integral LED

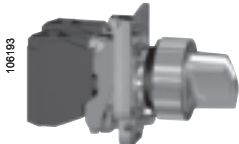
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XB4 BK123B5



Protected
LED



XB4 BK134B5

Illuminated selector switches with standard handle, with integral LED ⁽¹⁾								
Screw clamp terminal connections (Schneider Electric anti-retightening system)								
Shape of head	Type of operator	Type of contact		Positions Number Type	Supply voltage	Colour of handle	Reference	Weight
					V			kg
Complete units								
	Standard handle	1	1	2-position Stay put 90°	~ 24 (50/60 Hz)	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
					~ 110...120 (50/60 Hz)	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 (50/60 Hz)	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
	Standard handle	1	1	3-position Stay put ± 45°	~ 24 (50/60 Hz)	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
					~ 110...120 (50/60 Hz)	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 (50/60 Hz)	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 1/56.

Assembly of other products using:
combined sub-assemblies: see page 1/82
accessories: see page 1/94

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 90°	Stay put		White	ZB4 BK1213	0.036
					Green	ZB4 BK1233	0.036
					Red	ZB4 BK1243	0.036
					Orange	ZB4 BK1253	0.036
					Blue	ZB4 BK1263	0.036
			Spring return from right to left		White	ZB4 BK1413	0.037
					Green	ZB4 BK1433	0.037
					Red	ZB4 BK1443	0.037
					Orange	ZB4 BK1453	0.037
					Blue	ZB4 BK1463	0.037
 ZB4 BK1343		3-position ± 45°	Stay put		White	ZB4 BK1313	0.036
					Green	ZB4 BK1333	0.036
					Red	ZB4 BK1343	0.036
					Orange	ZB4 BK1353	0.036
					Blue	ZB4 BK1363	0.036
			Spring return to centre		White	ZB4 BK1513	0.036
					Green	ZB4 BK1533	0.036
					Red	ZB4 BK1543	0.036
					Orange	ZB4 BK1553	0.036
					Blue	ZB4 BK1563	0.036
		Spring return from right to centre			White	ZB4 BK1813	0.036
					Green	ZB4 BK1833	0.036
					Red	ZB4 BK1843	0.036
					Orange	ZB4 BK1853	0.036
					Blue	ZB4 BK1863	0.036
		Spring return from left to centre			White	ZB4 BK1713	0.036
					Green	ZB4 BK1733	0.036
					Red	ZB4 BK1743	0.036
					Orange	ZB4 BK1753	0.036
					Blue	ZB4 BK1763	0.036

Heads with black metal bezel

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

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 1/56.

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

Assembly of other products using:
body/light assemblies: see page 1/90
accessories: see pages 1/94 and 1/96

1

814114



XB4 BVB5

Pilot lights with integral LED

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

Shape of head	Supply voltage V	Colour	Reference	Weight kg
Complete units				
■ With plain lens				
 Protected LED	~ 24 (50/60 Hz)	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
	~ 110...120 (50/60 Hz)	White	XB4 BVG1 (ZB4 BVG1 + ZB4 BV013)	0.080
		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 (50/60 Hz)	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

814213



ZB4 BV063

523788



ZB4 BV043S

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

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

(3) For legend ordering information: see page 1/96.

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

Assembly of other products using:
body/light assemblies: see page 1/91
accessories: see pages 1/94 and 1/96

Control and signalling units Ø 22

Harmony® XB4, metal

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

1

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

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

Shape of head	Supply voltage V	Colour	Reference (1)	Weight kg
Complete units - With plain lens				
	~ 400 - 50 Hz (1)	White	XB4 BV5B1	0.172
		Green	XB4 BV5B3	0.172
		Red	XB4 BV5B4	0.172
		Orange	XB4 BV5B5	0.172
		Blue	XB4 BV5B6	0.172

080702



XB4 BV5B1

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

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

Shape of head	Supply voltage V	Colour	Reference	Weight kg
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

814114



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 ~ 220...240 - 60 Hz	White	XB4 BV41 (ZB4 BV4 + ZB4 BV01)	0.152
		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

814117



XB4 BV33

Heads only (2)

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

814213



ZB4 BV04

■ With grooved lens (3)				
	With BA 9s base fitting	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

523768



ZB4 BV06S

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

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

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

Assembly of other products using:
body/contact assemblies: see page 1/82
accessories: see page 1/94

Control and signalling units Ø 22

Harmony® XB4, metal

Specific functions

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

1



XB4 BA8●1

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 BA862	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)

85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 1/114)	~ 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●



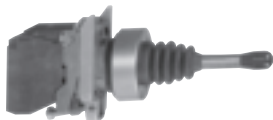
XB5 DT1S

Fuse carrier

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

(1) Potentiometer not included.

814342



XD4 PA12

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

Description	Operation	Spring return to zero position	Reference	Weight kg
Complete products				
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	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 versionsJoystick controllers and complete body/contact assemblies for joystick controllers with Faston connector terminals (6.35 or 2 x 2.8).
Please consult your customer care centre.

To combine with heads, see pages 1/58 to 1/80

1

814364



ZB4 BZ009

814265



ZBE 101

814287



ZBE 203

814133



ZB4 BZ101

814265



ZBE 201

814346



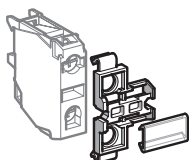
ZB4 BZ106

PF080706



ZBE 501

814262



ZBZ 001

Body/fixing collar

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

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

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

Contacts for specific applications

Application	Type of contact	Description			Sold in lots of	Unit reference	Weight kg
Low power switching	Single	Standard	1	–	5	ZBE 1016	0.012
			–	1	5	ZBE 1026	0.012
		Dusty environment (2) (IP5X, 50 µm dust)	1	–	5	ZBE 1016P	0.012
			–	1	5	ZBE 1026P	0.012
Staggered contacts	Single	Early make N/O	1	–	5	ZBE 201	0.011
		Late break N/C	–	1	5	ZBE 202	0.011
		Single with body/fixing collar	1	1	5	ZB4 BZ106	0.062
		Overlapping N/O+N/C					
		Staggered N/O+N/O					
High power switching	Single	Standard (3)	1	–	1	ZBE 501	0.020
			–	1	1	ZBE 502	0.020
			2	–	1	ZBE 503	0.032
			–	2	1	ZBE 504	0.032
			1	1	1	ZBE 505	0.032
			1	–	1	ZB2 BE101	0.020
Additional contact blocks for high power switching	Single	Standard (4)	–	1	1	ZB2 BE102	0.020

Clip-on legend holder, sheet of blank legends and labelling software

Description	Sold in lots of	Unit reference	Weight kg
Clip-on legend-holder for electrical blocks with screw clamp terminal connections (5). For identification of an XB4 B control or signalling unit	10	ZBZ 001	0.001
Sheet of 50 blank legends for legend holder ZBZ 001	10	ZBY 001	0.023
«SIS Label» labelling software for legend design (ZBY 001 legends) (for design of legends in English, French, German, Italian, Spanish)	1	XYB 2U	0.100

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 1/56.

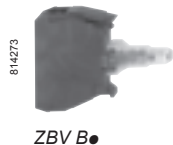
(2) It is not possible to fit an additional contact block on the back of these contact blocks.

(3) It is not possible to use these contacts with light blocks.

(4) To be fitted on the back of ZBE 500 contacts.

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

To combine with heads, see page 1/62



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

Flashing light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)					
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) Protected LED	~ 24 (50/60 Hz)	White	5	ZBV 18B1	0.017
		Green	5	ZBV 18B3	0.017
		Red	5	ZBV 18B4	0.017
		Orange	5	ZBV 18B5	0.017
		Blue	5	ZBV 18B6	0.017
	~ 110...120 (50/60 Hz)	White	5	ZBV 18G1	0.017
		Green	5	ZBV 18G3	0.017
		Red	5	ZBV 18G4	0.017
		Orange	5	ZBV 18G5	0.017
		Blue	5	ZBV 18G6	0.017
	~ 230...240 (50/60 Hz)	White	5	ZBV 18M1	0.017
		Green	5	ZBV 18M3	0.017
		Red	5	ZBV 18M4	0.017
		Orange	5	ZBV 18M5	0.017
		Blue	5	ZBV 18M6	0.017

Transformer blocks for 24 V light blocks (1)				
For use with	Supply voltage V	Description	Référence	Weight kg
Light blocks with integral LED	~ 400 V - 50 Hz	Transformer 400 V - 24 V ~	ZBV 5B (2)	0.090

Blocks for "test light" function				
Light blocks	~ 12 and 24 ~ 24...120	Single module, 1 connecting wire	ZBZ G156 (3)	0.010
Light blocks with integral LED	~ 48...230	Double module, with connecting wires	ZBZ M156 (4)	0.010

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

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

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

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

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

(4) Block for use ~ light blocks integral LED types ZBV G●, ZBV M●, see connection on page 1/114.



To combine with heads, see pages 1/58 to 1/80

1

814264



ZB4 BZ009

PF10777



ZBE 1015

PF10779



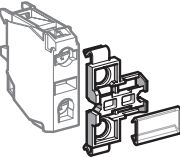
ZB4 BZ1015

PF080711



ZBV B35

814262



ZBZ 001

540548



XBY 2U

Body/fixing collar

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

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

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	4	ZBE 1015	0.011
		–	1	4	ZBE 1025	0.011
	Single with body/fixing collar	1	–	1	ZB4 BZ1015	0.053
		–	1	1	ZB4 BZ1025	0.053
		2	–	1	ZB4 BZ1035	0.062
		–	2	1	ZB4 BZ1045	0.062
		1	1	1	ZB4 BZ1055	0.062

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

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	~ 12 (50/60 Hz)	White	4	ZBV J15	0.016
		Green	4	ZBV J35	0.016
		Red	4	ZBV J45	0.016
		Orange	4	ZBV J55	0.016
		Blue	4	ZBV J65	0.016
	~ 24 (50/60 Hz)	White	4	ZBV B15	0.016
		Green	4	ZBV B35	0.016
		Red	4	ZBV B45	0.016
		Orange	4	ZBV B55	0.016
		Blue	4	ZBV B65	0.016
	~ 110...120 (50/60 Hz)	White	4	ZBV G15	0.016
		Green	4	ZBV G35	0.016
		Red	4	ZBV G45	0.016
		Orange	4	ZBV G55	0.016
		Blue	4	ZBV G65	0.016
	~ 230...240 (50/60 Hz)	White	4	ZBV M15	0.016
		Green	4	ZBV M35	0.016
		Red	4	ZBV M45	0.016
		Orange	4	ZBV M55	0.016
		Blue	4	ZBV M65	0.016
Integral LED + body/fixing collar	~ 110...120 (50/60 Hz)	Green	4	ZB4 BVG35	0.053
		Red	4	ZB4 BVG45	0.053

Sheet of 50 blank legends

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

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

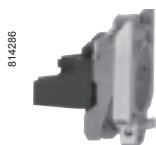
For legend design	Sold in lots of	Unit reference	Weight kg
for English, French, German, Italian, Spanish	10	XBY 2U	0.100

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

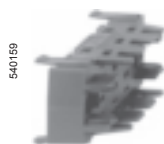
To combine with heads, see pages 1/58 to 1/80



ZB4 BZ009



ZB4 BZ079 + ZB4 BZ009



ZBZ 01•



ZBE 701



ZBE 702



ZBV B•7

Body/fixing collar and accessories specifically for printed circuit board mounting ⁽¹⁾

Accessories required when using adaptor (socket) ZBZ 010

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

Adapter (socket) ⁽¹⁾

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

Contact functions ⁽¹⁾

Contacts for standard applications

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

Contacts for specific applications

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

Light blocks ⁽¹⁾

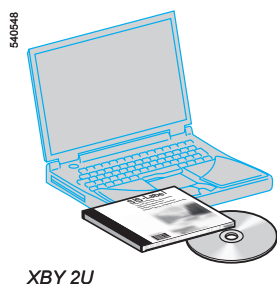
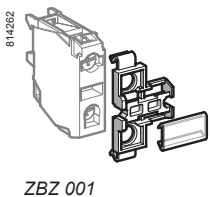
Description	Supply voltage V	Colour of LED	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	≈ 24 (50/60 Hz)	White	5	ZBV B17	0.004
		Green	5	ZBV B37	0.004
		Red	5	ZBV B47	0.004
		Orange	5	ZBV B57	0.004
		Blue	5	ZBV B67	0.004

Protected
LED

⁽¹⁾ For details of support drilling and of printed circuit board: see page 1/108.

To combine with heads, see pages 1/58 to 1/80

1

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

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

Contacts for specific applications

Application	Type of contact	Description			Sold in lots of	Unit reference	Weight kg	
Low power switching	Single	Standard						
			1	—	5	ZBE 10163 (2)	0.012	
		—	1	5	ZBE 10263 (2)	0.012		
		Dusty environments (3) (IP5X, 50 µm dust)	1	—	5	ZBE 1016P3 (2)	0.012	
			—	1	5	ZBE 1026P3 (2)	0.012	
Staggered contacts	Single	Early make		1	—	5	ZBE 2013 (2)	0.011
			N/O					
		Late break		—	1	5	ZBE 2023 (2)	0.011
			N/C					
High power switching	Single	Standard (4)	1	—	1	ZBE 5013	0,021	
			—	1	1	ZBE 5023	0,021	
			2	—	1	ZBE 5033	0,033	
			—	2	1	ZBE 5043	0,033	
			1	1	1	ZBE 5053	0,033	

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

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

Sheet of 50 blank legends

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

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

(2) To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9.
Example: ZBE 1013 becomes ZBE 1019.

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

(4) It is not possible to use these contacts with light blocks.

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

To combine with heads, see pages 1/58 to 1/80

814264



ZB4 BZ009

814278



ZBE 1014

814279



ZBE 1024

814135



ZB4 BZ1014

814136



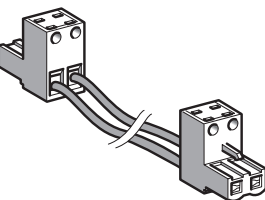
ZB4 BZ1024

814280



ZBV B•4

530719



APE 1C2250

Body/fixing collar

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

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

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

Light blocks**Plug-in connector**

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

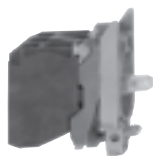
Protected
LED**Connecting cables and connector**

Description	Number of connectors	Wire c.s.a. mm²	Length mm	Sold in lots of	Unit reference	Weight kg
Cables with connectors 2-pin, 5.08 mm pitch	1	0.75	500	8	APE 1C2150	0.120
	2	0.75	500	8	APE 1C2250	0.180
Spring terminal connector 2-pin, 5.08 mm pitch	–	0.2 to 2.5	–	10	APE 1PRE21	0.003

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

To combine with:
heads, see pages 1/61 to 1/77
contacts, see page 1/82

1



ZB4 BW0...3

Complete body/contact assemblies and light blocks ⁽¹⁾

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

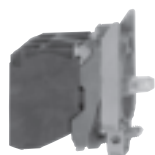
Light source	Supply voltage	Type of contact		Colour of light source	Reference	Weight
	V					kg
		N/O	N/C			
Direct supply						
Integral LED 	~ 24 (50/60 Hz)	1	–	White	ZB4 BW0B11	0.064
				Green	ZB4 BW0B31	0.064
				Red	ZB4 BW0B41	0.064
				Orange	ZB4 BW0B51	0.064
				Blue	ZB4 BW0B61	0.064
		–	1	White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

Other versions

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

(1) Can be fitted with additional contact blocks: see page 1/82.

To combine with:
heads, see pages 1/61 to 1/77
contacts, see page 1/82



ZB4 BW0...3

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

Other versions

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

(1) Can be fitted with additional contact blocks: see page 1/82.

To combine with:
heads, see page 1/78
contacts, see page 1/82

1

814207



ZB4 BV●●

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

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

(1) Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 1/86.

To combine with:
heads, see page 1/78
contacts, see page 1/82



ZB4 BVB156

Complete light bodies with 3-terminal "test" function

(fixing collar + light block with integral LED + pre-wired block for "test light" function)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

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

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

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

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

(1) For a ~ 120 or 230 V supply, use complete body ZB4 BVG1 or ZB4 BVM1 with block for "test light" function type ZBZ M156, see page 1/90 and 1/83.

To combine with:
heads, see page 1/63
contacts, see page 1/82

1

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

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

Other versions

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

(1) Can be fitted with additional contact blocks: see page 1/82.

(2) Bulb to be ordered separately: see page 1/104.

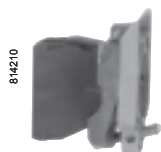
To combine with:
heads, see page 1/79
contacts, see page 1/82

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

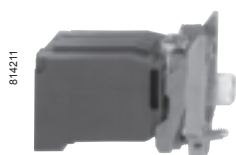
Description	Supply voltage V	Sold in lots of	Unit reference	Weight kg
Direct supply for BA 9s base fitting bulb, 2.4 W max., not included (1)	≤ 250	5	ZBV 6	0.016

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

Light source	Supply voltage V	Colour of light source	Reference	Weight kg
Direct supply				
BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	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 BV8	0.128
	~ 440...480 - 60 Hz	–	ZB4 BV9	0.131
BA 9s base fitting LED, included	~ 110...120 - 50/60 Hz	White	ZB4 BV3D1	0.134
		Green	ZB4 BV3D3	0.134
		Red	ZB4 BV3D4	0.134
		Orange	ZB4 BV3D5	0.134
		Blue	ZB4 BV3D6	0.134
	~ 230 - 50 Hz ~ 220...240 - 60 Hz	White	ZB4 BV4D1	0.134
		Green	ZB4 BV4D3	0.134
		Red	ZB4 BV4D4	0.134
		Orange	ZB4 BV4D5	0.134
		Blue	ZB4 BV4D6	0.134
	~ 400 - 50/60 Hz	White	ZB4 BV5D1	0.134
		Green	ZB4 BV5D3	0.134
		Red	ZB4 BV5D4	0.134
		Orange	ZB4 BV5D5	0.134
		Blue	ZB4 BV5D6	0.134



ZB4 BV6



ZB4 BV●



ZB4 BV156

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

BA 9s base fitting bulb, 2.4 W max, not included (1)	≤ 250	–	ZB4 BV156	0.062
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(1) Bulb to be ordered separately, see page 1/104.

Other versions

Complete bodies with Faston connector terminals (6.35 or 2 x 2.8), see page 1/86.

1



ZBA •



ZBL •



ZBA •33

Pushbutton caps - unmarked

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

Pushbutton caps - marked

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

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

(2) Double injection moulded marking.

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

814334



ZBP 0

Transparent boots for pushbuttons (1)

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

Coloured boots

Description	Colour	For use with	Sold in lots of	Unit reference	Weight kg
Coloured boots (can be replaced without dismantling the head)	White	ZB4 BP1S	10	ZBP 011	0.003
	Black	ZB4 BP2S	10	ZBP 012	0.003
	Green	ZB4 BP3S	10	ZBP 013	0.003
	Red	ZB4 BP4S	10	ZBP 014	0.003
	Yellow	ZB4 BP5S	10	ZBP 015	0.003
	Blue	ZB4 BP6S	10	ZBP 016	0.003
Clear membrane	Transparent	ZB4 BP●83	10	ZBP 017 ▲	0.003

Lens caps

For use with	Colour	Sold in lots of	Unit reference	Weight kg
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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 (3)	5	ZBV 0103S	0.010

Illuminated pushbuttons, with flush push	White	10	ZBW 9113	0.002
	Green	10	ZBW 9133	0.002
	Red	10	ZBW 9143	0.002
	Orange	10	ZBW 9153	0.002
	Blue	10	ZBW 9163	0.002

Illuminated pushbuttons, with projecting push	White	10	ZBW 9313	0.002
	Green	10	ZBW 9333	0.002
	Red	10	ZBW 9343	0.002
	Orange	10	ZBW 9353	0.002
	Blue	10	ZBW 9363	0.002

Lens caps for light sources with BA 9s base fitting

Pilot lights	White	10	ZBV 011	0.002
	Green	10	ZBV 013	0.002
	Red	10	ZBV 014	0.002
	Orange	10	ZBV 015	0.002
	Blue	10	ZBV 016	0.002
	Clear	10	ZBV 017	0.002

Pushbuttons, illuminated, with flush push	White	10	ZBW 911	0.002
	Green	10	ZBW 913	0.002
	Red	10	ZBW 914	0.002
	Orange	10	ZBW 915	0.002
	Blue	10	ZBW 916	0.002
	Clear	10	ZBW 917	0.002

Pushbuttons, illuminated, with projecting push	White	10	ZBW 931	0.002
	Green	10	ZBW 933	0.002
	Red	10	ZBW 934	0.002
	Orange	10	ZBW 935	0.002
	Blue	10	ZBW 936	0.002
	Clear	10	ZBW 937	0.002

(1) Boots for multiple-headed pushbuttons: see page 1/65.

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

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

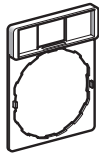
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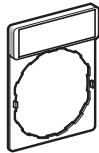
ZBZ 34



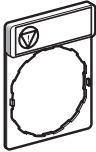
ZBY H101



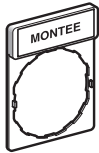
ZBZ 32



ZBY 101



ZBY 4140



ZBY 2107

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

Description	Legend Colour	Marking	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

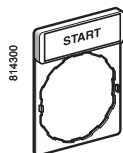
Standard (30 x 40 mm) legend holders for 8 x 27 mm legends ⁽¹⁾

Description	Legend Colour	Marking	Sold in lots of	Unit reference	Weight kg
Without legend	—	—	10	ZBZ 32	0.001
With blank legend (for engraving)	Black or red background	—	10	ZBY 2101	0.002
	White or yellow background	—	10	ZBY 4101	0.002
With 8 x 27 mm legend (with International marking)	Black or red background (2)	O (black background)	1	ZBY 2146	0.002
		O (red background)	1	ZBY 2931	0.002
		I	1	ZBY 2147	0.002
		II	1	ZBY 2148	0.002
		O-I	1	ZBY 2178	0.002
		I-II	1	ZBY 2179	0.002
		I-O-II	1	ZBY 2186	0.002
		AUTO	1	ZBY 2115	0.002
		STOP	1	ZBY 2304	0.002
		Yellow background	1	ZBY 4140 (3)	0.002
	Black or red background (2)	ARRET (red backgr.)	1	ZBY 2104	0.002
		ARRET (black backgr.)	1	ZBY 0104	0.002
		ARRET GENERAL	1	ZBY 2129	0.002
		ARRET REARMEMENT	1	ZBY 2133	0.002
		ARRET-MARCHE	1	ZBY 2166	0.002
		ARRIERE	1	ZBY 2106	0.002
		AUTO CYCLE-CYCLE	1	ZBY 2198	0.002
		AUTO CYCLE-MAIN	1	ZBY 2199	0.002
		AUTO-MAIN	1	ZBY 2164	0.002
		AUTO-O-MAIN	1	ZBY 2185	0.002
		AVANT	1	ZBY 2105	0.002
		AVANT-O-ARRIERE	1	ZBY 2184	0.002
		C-P-C-NORMAL	1	ZBY 2165	0.002
		CYCLE-MAIN	1	ZBY 2197	0.002
		DECLenchement	1	ZBY 2132	0.002
		DEFAUT (black backgr.)	1	ZBY 2134	0.002
		DEFAUT (red backgr.)	1	ZBY 2135	0.002
		DEPART CYCLE	1	ZBY 2195	0.002
		DESCENTE	1	ZBY 2108	0.002
		DROITE	1	ZBY 2109	0.002
		ENCLenchement	1	ZBY 2131	0.002
		EN SERVICE	1	ZBY 2111	0.002
		FERMETURE	1	ZBY 2114	0.002
		GAUCHE	1	ZBY 2110	0.002
		HORS SERVICE	1	ZBY 2112	0.002
		HORS-EN	1	ZBY 2167	0.002
		LENT	1	ZBY 2127	0.002
		MAIN	1	ZBY 2116	0.002
		MARCHE	1	ZBY 2103	0.002
		MONTEE	1	ZBY 2107	0.002
		OUVERTURE	1	ZBY 2113	0.002
		PHASE / PHASE	1	ZBY 2196	0.002
		REARMEMENT (red background)	1	ZBY 2123	0.002
		REARMEMENT (black background)	1	ZBY 0123	0.002
		SOUS TENSION	1	ZBY 2126	0.002
		VITE	1	ZBY 2128	0.002
	Red background	ARRET D'URGENCE	1	ZBY 2130 (3)	0.002

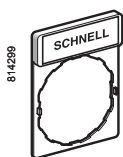
(1) For legends, see pages 1/98 to 1/100.

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

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



ZBY 2303



ZBY 2228

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

Description	Legend	Marking	Reference	Weight kg
With legend (with English language marking)	Black or red background (1)	AUTO-HAND	ZBY 2364	0.002
		AUTO-O-HAND	ZBY 2385	0.002
		CLOSE	ZBY 2314	0.002
		DOWN	ZBY 2308	0.002
		FAST	ZBY 2328	0.002
		FORWARD	ZBY 2305	0.002
		HAND	ZBY 2316	0.002
		HAND-OFF-AUTO	ZBY 2387	0.002
		INCH	ZBY 2321	0.002
		LEFT	ZBY 2310	0.002
		OFF	ZBY 2312	0.002
		OFF-ON	ZBY 2367	0.002
		ON	ZBY 2311	0.002
		OPEN	ZBY 2313	0.002
		POWER ON	ZBY 2326	0.002
		RESET (red background)	ZBY 2323	0.002
		RESET (black background)	ZBY 2322	0.002
		REVERSE	ZBY 2306	0.002
		RIGHT	ZBY 2309	0.002
		RUN	ZBY 2334	0.002
		SLOW	ZBY 2327	0.002
		START	ZBY 2303	0.002
		STOP-START	ZBY 2366	0.002
		UP	ZBY 2307	0.002
	Red background	EMERGENCY STOP	ZBY 2330 (2)	0.002
With legend (with German language marking)	Black or red background (1)	AB	ZBY 2208	0.002
		AUF	ZBY 2207	0.002
		AUS	ZBY 2204	0.002
		AUS-EIN	ZBY 2266	0.002
		AUS-IN BETRIEB	ZBY 2267	0.002
		AUS-RÜCKSTELLUNG	ZBY 2233	0.002
		AUSSCHALTEN	ZBY 2232	0.002
		AUTO-HAND	ZBY 2364	0.002
		AUTO-O-HAND	ZBY 2385	0.002
		AUTOZYKL-HAND	ZBY 2299	0.002
		AUTOZYKL- 1 ZYKL	ZBY 2298	0.002
		C-P-C-NORMAL	ZBY 2265	0.002
		EIN	ZBY 2203	0.002
		EINSCHALTEN	ZBY 2231	0.002
		HAND	ZBY 2316	0.002
		LANGSAM	ZBY 2227	0.002
		LINKS	ZBY 2210	0.002
		NOT-AUS (red background)	ZBY 2230	0.002
		ÖFFNEN	ZBY 2213	0.002
		RECHTS	ZBY 2209	0.002
		RÜCKSTELLUNG	ZBY 2223	0.002
		SCHLIESSEN	ZBY 2214	0.002
		SCHNELL	ZBY 2228	0.002
		SPANNUNG EIN	ZBY 2226	0.002
		STEUERUNG AUS	ZBY 2212	0.002
		STEUERUNG EIN	ZBY 2211	0.002
		STÖRUNG (black background)	ZBY 2234	0.002
		STÖRUNG (red background)	ZBY 2235	0.002
		VOR	ZBY 2205	0.002
		VOR-O-ZURÜCK	ZBY 2284	0.002
		ZURÜCK	ZBY 2206	0.002
		ZYKLUS-HAND	ZBY 2297	0.002
		ZYKLUSSTART	ZBY 2295	0.002
	Red background	NOT-HALT	ZBY 2229 (2)	0.002
	Yellow background	NOT-HALT	ZBY 22420001 (2)	0.002

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

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

1

8/4310



ZBY 02178

DF-540629



ZBY 0140

8/4311



ZBY 0104

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

Language	Colour of background	Marking	Reference	Weight kg
Without	White or yellow	–	ZBY 0102	0.001
International	Black or red (1)	O (black background)	ZBY 02146	0.001
		O (red background)	ZBY 02931	0.001
		I	ZBY 02147	0.001
		II	ZBY 02148	0.001
		O-I	ZBY 02178	0.001
		I-II	ZBY 02179	0.001
		I-O-II	ZBY 02186	0.001
		AUTO	ZBY 02115	0.001
		STOP	ZBY 02304	0.001
	Yellow		ZBY 0140 (2)	0.001
French	Black or red (1)	ARRET (red background)	ZBY 02104	0.001
		ARRET (black background)	ZBY 00104	0.001
		ARRET GENERAL	ZBY 02129	0.001
		ARRET REARMEMENT	ZBY 02133	0.001
		ARRET-MARCHE	ZBY 02166	0.001
		ARRIERE	ZBY 02106	0.001
		AUTO CYCLE-CYCLE	ZBY 02198	0.001
		AUTO CYCLE-MAIN	ZBY 02199	0.001
		AUTO-MAIN	ZBY 02164	0.001
		AUTO-O-MAIN	ZBY 02185	0.001
		AVANT	ZBY 02105	0.001
		AVANT-O-ARRIERE	ZBY 02184	0.001
		C-P-C-NORMAL	ZBY 02165	0.001
		CYCLE-MAIN	ZBY 02197	0.001
		DECLenchement	ZBY 02132	0.001
		DEFAULT (black background)	ZBY 02134	0.001
		DEFAULT (red background)	ZBY 02135	0.001
		DEPART CYCLE	ZBY 02195	0.001
		DESCENTE	ZBY 02108	0.001
		DROITE	ZBY 02109	0.001
		ENCLenchement	ZBY 02131	0.001
		EN SERVICE	ZBY 02111	0.001
		FERMETURE	ZBY 02114	0.001
		GAUCHE	ZBY 02110	0.001
		HORS SERVICE	ZBY 02112	0.001
		HORS-EN	ZBY 02167	0.001
		LENT	ZBY 02127	0.001
		MAIN	ZBY 02116	0.001
		MARCHE	ZBY 02103	0.001
		MONTEE	ZBY 02107	0.001
		OUVERTURE	ZBY 02113	0.001
		PHASE / PHASE	ZBY 02196	0.001
		REARMEMENT (red background)	ZBY 02123	0.001
		REARMEMENT (black background)	ZBY 00123	0.001
		SOUS TENSION	ZBY 02126	0.001
		VITE	ZBY 02128	0.001
	Red	ARRET D'URGENCE	ZBY 02130 (2)	0.001

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

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

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

Language	Colour of background	Marking	Reference	Weight kg
English	Black or red (1)	AUTO-HAND	ZBY 02364	0.001
		AUTO-O-HAND	ZBY 02385	0.001
		CLOSE	ZBY 02314	0.001
		DOWN	ZBY 02308	0.001
		FAST	ZBY 02328	0.001
		FORWARD	ZBY 02305	0.001
		HAND	ZBY 02316	0.001
		HAND-OFF-AUTO	ZBY 02387	0.001
		INCH	ZBY 02321	0.001
		LEFT	ZBY 02310	0.001
		OFF	ZBY 02312	0.001
		OFF-ON	ZBY 02367	0.001
		ON	ZBY 02311	0.001
		OPEN	ZBY 02313	0.001
		POWER ON	ZBY 02326	0.001
		RESET (red background)	ZBY 02323	0.001
		RESET (black background)	ZBY 02322	0.001
		REVERSE	ZBY 02306	0.001
		RIGHT	ZBY 02309	0.001
		RUN	ZBY 02334	0.001
		SLOW	ZBY 02327	0.001
		START	ZBY 02303	0.001
		STOP-START	ZBY 02366	0.001
		UP	ZBY 02307	0.001
	Red	EMERGENCY STOP	ZBY 02330 (2)	0.001
German	Black or red (1)	AB	ZBY 02208	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
		ÖFFNEN	ZBY 02213	0.001
		RECHTS	ZBY 02209	0.001
		RÜCKSTELLUNG	ZBY 02223	0.001
		SCHLIESSEN	ZBY 02214	0.001
		SCHNELL	ZBY 02228	0.001
		SPANNUNG EIN	ZBY 02226	0.001
		STEUERUNG AUS	ZBY 02212	0.001
		STEUERUNG EIN	ZBY 02211	0.001
		STÖRUNG (black background)	ZBY 02234	0.001
		STÖRUNG (red background)	ZBY 02235	0.001
		VOR	ZBY 02205	0.001
		VOR-O-ZURÜCK	ZBY 02284	0.001
		ZURÜCK	ZBY 02206	0.001
		ZYKLUS-HAND	ZBY 02297	0.001
		ZYKLUSSTART	ZBY 02295	0.001
	Red	NOT-HALT	ZBY 02229 (2)	0.001
	Yellow	NOT-HALT	ZBY 022420001 (2)	0.001

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

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

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

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

814313



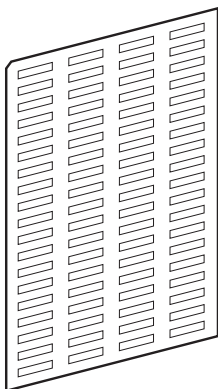
ZBY 02303

814314



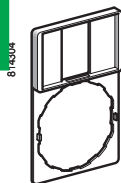
ZBY 02228

814309

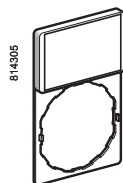


ZBY 4100

1



ZBZ 33



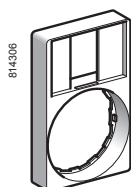
ZBY 610●

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

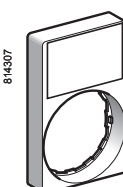
Description	Colour of background	Sold in lots of	Unit reference	Weight kg
Without legend	–	10	ZBZ 33	0.001
With blank legend	Black or red	10	ZBY 6101	0.002
	White or yellow	10	ZBY 6102	0.002
	Yellow	10	ZBY 6140 (1)	0.002

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

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



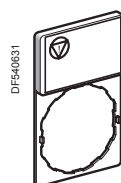
ZBZ 35



ZBY 6H10●

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

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



ZBY 6140

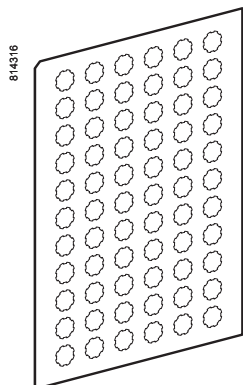
Sheets of peel-off legends 18 x 27 mm (with backing board and protective transparent cover)

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

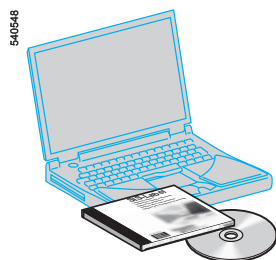
(1) For complying with EN/ISO 13850 standard. paragraph 4.4.6.. Emergency Stop function logo has been added.

Legends for XB4 B pushbuttons, illuminated pushbuttons and pilot lights

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



ZBY 1101



XBY 2U

“SIS Label” labelling software

Application	For use with	Reference	Weight kg
Legend design for English, French, German, Italian, Spanish	ZBY 1101, ZBY 001, ZBY 0101, ZBY 0102, ZBY 5101, ZBY 5102, ZBY 4100 and ZBY 5100	XBY 2U	0.100

Circular, yellow legends for mushroom head pushbuttons

Used for “Emergency stop” function (1)

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

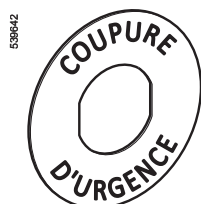
Used for “Emergency switching off” function

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

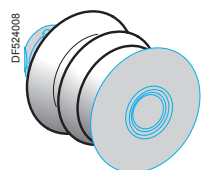
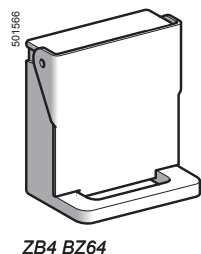
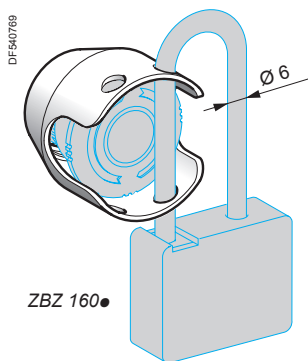
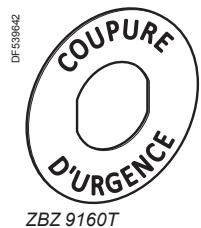
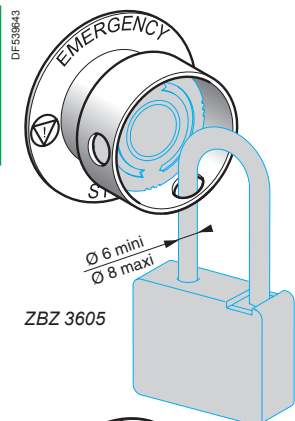
(1) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo (E) has been added.



ZBY 9130



ZBY 9160



Accessories for mushroom head pushbuttons

Description	For use with	Colour	Reference	Weight kg
Padlocking kit (1) (2) (padlockable)	Emergency stop (3) and Emergency switching off function (4), only with the following Ø 40 trigger action pushbuttons: XB4 BS844●, XB4 BS9445, ZB4 BS844, ZB4 BS944.	Yellow	ZBZ 3605	0.045

Description	Marking	Colour	Reference	Weight kg
Ø 60 mm legend for padlocking device ZBZ 3605 For Emergency stop function (3)	Without	Yellow	ZBY 9140T	0.004
	ARRET D'URGENCE	Yellow	ZBY 9130T	0.004
	EMERGENCY STOP	Yellow	ZBY 9330T	0.004
	NOT-HALT	Yellow	ZBY 9230T	0.004

Ø 60 mm legend for padlocking device ZBZ 3605 For Emergency switching off function (4)	Without	Yellow	ZBY 9101T	0.004
	COUPURE D'URGENCE	Yellow	ZBY 9160T	0.004
	EMERGENCY SWITCHING OFF	Yellow	ZBY 9360T	0.004
	NOT-AUS	Yellow	ZBY 9260T	0.004

Metal guards Padlockable (2)	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
		Blue	ZBZ 1606	0.046

Other accessories

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

Padlockable flaps	Pushbuttons	Black	ZB4 BZ62	0.076
		Red	ZB4 BZ64	0.076
		Yellow	ZB4 BZ65	0.076
		Blue	ZB4 BZ66	0.076

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

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

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

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

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

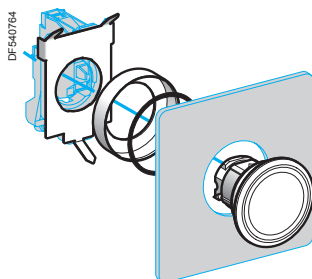
(5) Only when mounted on control stations. Use special legends **ZBY 9●●●T**.



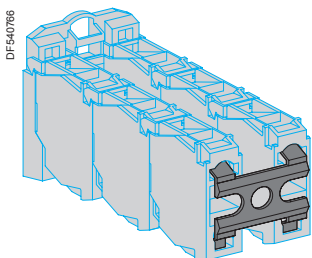
ZB5 SZ3



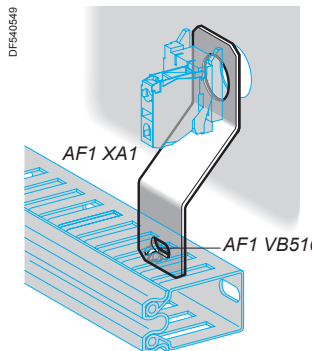
ZB4 BZ007



ZB4 BZ011



ZBZ 007



Other accessories (continued)

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Metal circular blanking plug	Ø 22 control and signalling units	Chromium plated	10	ZB4 SZ3	0.023
		Black	10	ZB4 SZ37	0.023
Plastic circular blanking plug (with fixing nut)	Ø 22 control and signalling units	Black	10	ZB5 SZ3	0.009
Liquid spray protective washer to be fitted under the head	Ø 22 control and signalling units	Chromium plated	50	ZB4 BZ007	0.010
		Black	50	ZB4 BZ0077	0.010
Flush mounting kit	Pushbutton ZB4 B● with head mounted flush with bezel	Chromium plated	1	ZB4 BZ011	0.007
		Black	1	ZB4 BZ0117	0.007
Adapter (Ø 30 to Ø 22 reducer)	All pushbuttons	Chromium plated	1	ZB4 BZ012	—
Plastic clips	2 or 3 levels of contact blocks ZBE 10● in high vibration environment	—	10	ZBZ 007	—
Dummy contact block	Contact blocks ZBE 10● and transformer blocks ZBV 5B	—	5	ZBE 000	—
Set of tabs for Faston connection	Contact blocks ZBE 10● and light blocks ZBV ●	—	10	ZBE 003	—
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 XB4B pushbuttons, switches and pilot lights		1	DX1 AP52	0.160
Boot for contact block ZBE 10● and ZBE 10● 3 (1)	For protection against dusty environment		1	ZBZ 60 ▲	0.098

(1) Restriction for use: refer to the product instruction sheet on www.schneider-electric.com.

Control and signalling units Ø 22

Harmony® XB4 metal

Accessories for illuminated pushbuttons: bulbs

1



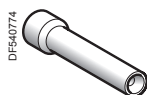
DL1 CJO●●●



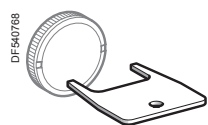
DL1 CE●●●



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
		Blue	1	DL1 CD0066	0.002
Incandescent bulbs	6 V - 1.2 W	—	10	DL1 CB006	0.002
	24 V - 2 W	—	10	DL1 CE024	0.002
	120...130 V 2.4 W	—	10	DL1 CE130	0.002
Neon bulbs	120...130 V	—	10	DL1 CF110	0.002
	230...240 V	—	10	DL1 CF220	0.002
Bulb extractor	—	—	1	XBF X13	0.005
Lens cap tightening tool	Illuminated pushbuttons, with flush push	—	1	ZBZ 8	0.009



ZBG 455



ZBD LU1



ZBG 455P



ZBG P



ZBD D2

Replacement keys

Description	Key number	Reference	Weight kg
For latching mushroom head pushbuttons and selector 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
	Specific key (1)	ZBG K	0.014

For booted selector switches

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

Accessory for key switches (2)

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

Boot for standard handle

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

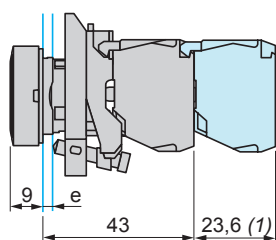
(1) Key number to be added when ordering.

(2) Not compatible with products with key TEC10.

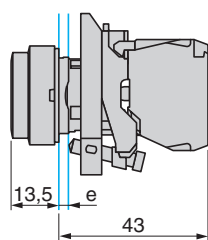
1

Pushbuttons, spring return

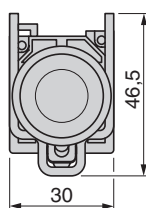
XB4 BA●●



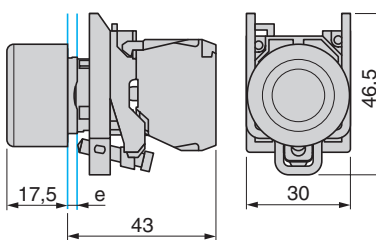
XB4 BL●●



Common face view



XB4 BP●●



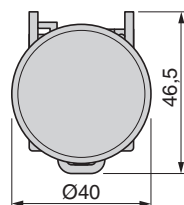
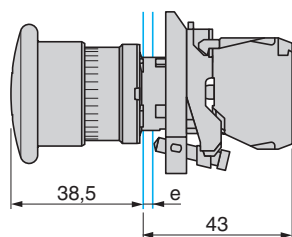
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Mushroom head pushbuttons, spring return

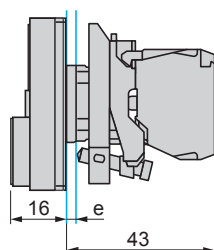
XB4 BC21



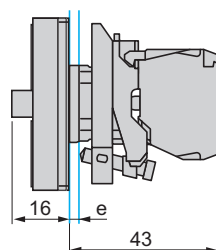
e: clamping thickness: 1 to 6 mm

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

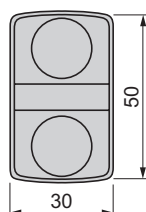
XB4 BL73415, XB4 BW73731●5



XB4 BA731327, XB4 BA711237



Common face view

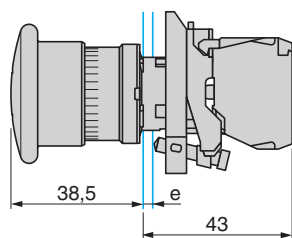


e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head pushbuttons, trigger action and mechanical latching

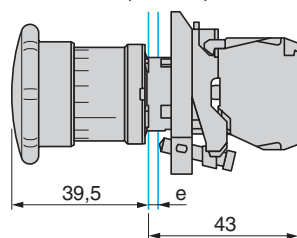
Push-pull

XB4 BT845



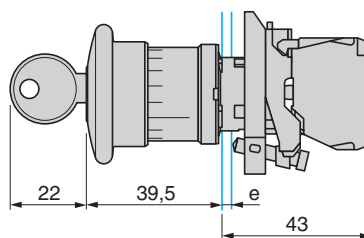
Turn to release

XB4 BS84441, BS8444, BS8445

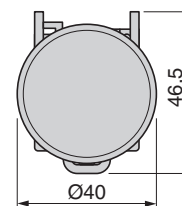


Key release

XB4 BS9445



Common face view



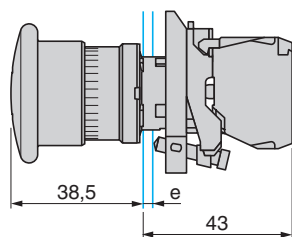
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Emergency switching off mushroom head pushbuttons, mechanical latching

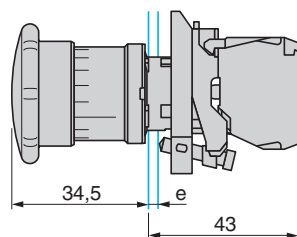
Push-pull

XB4 BT42



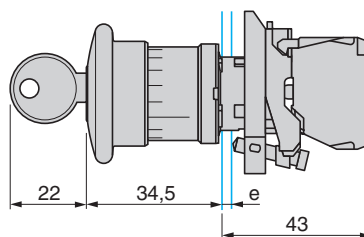
Turn to release

XB4BS542

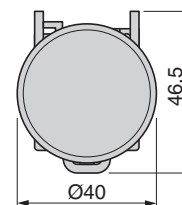


Key release

XB4 BS142



Common face view



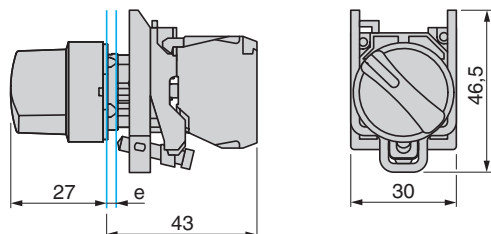
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Selector switches

Standard handle operator

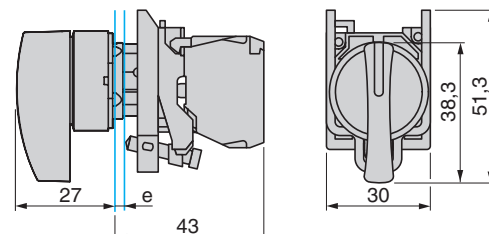
XB4 BD●●



e: clamping thickness: 1 to 6 mm

Long handle operator

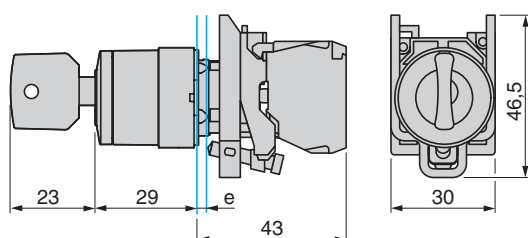
XB4 BJ●●



e: clamping thickness: 1 to 6 mm

Key switches

XB4 BG●●



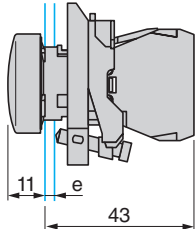
e: clamping thickness: 1 to 6 mm

1

Pilot lights

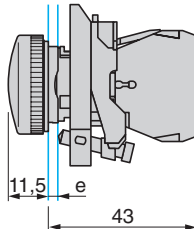
Integral LED

XB4 BVB●, BVG●, BVM●



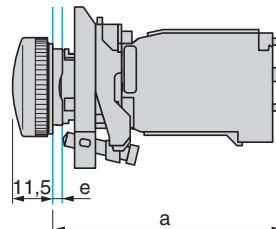
Direct supply

XB4 BV6●

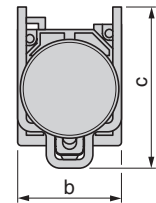


Via integral transformer

XB4 BV3●, BV4●



Common face view



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

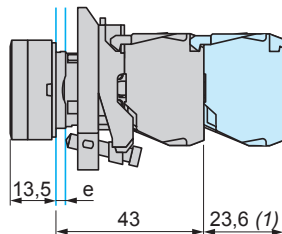
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Illuminated pushbuttons, spring return

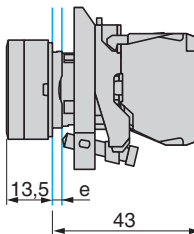
Integral LED

XB4 BWB3●●5



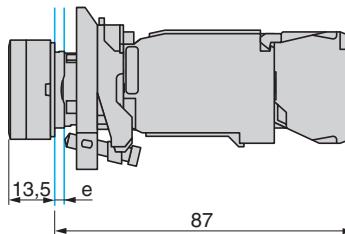
Direct supply

XB4 BW3●65

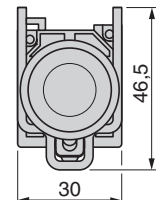


Via integral transformer

XB4 BW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

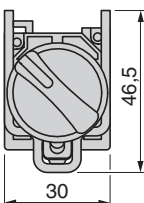
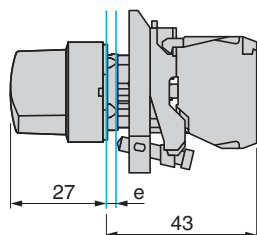
e: clamping thickness: 1 to 6 mm

(1) Additional row of contacts or double contact

Illuminated selector switches

Integral LED

XB4 BK12●●5

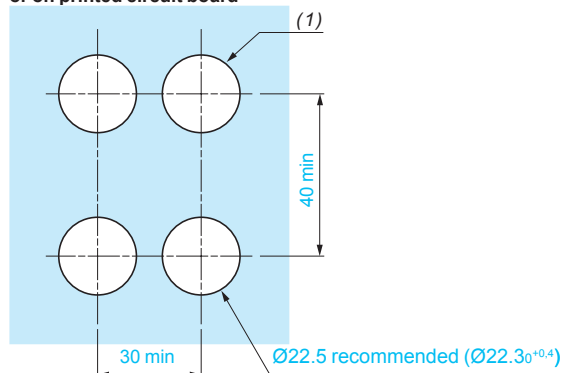


e: clamping thickness: 1 to 6 mm

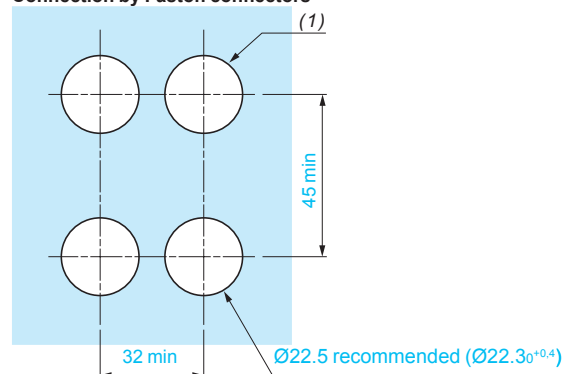
e: clamping thickness: 1 to 6 mm

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

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

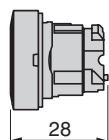


Connection by Faston connectors

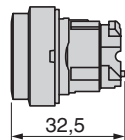


(1) Diameter on finished panel or support.

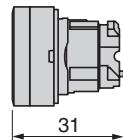
Heads for spring return pushbuttons

ZB4 BA●, ZB4
BA●●ZB4 BA●8


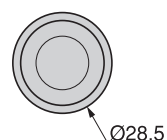
ZB4 BL●, ZB4 BL●●



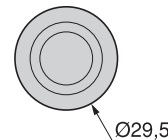
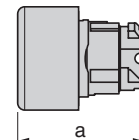
ZB4 BA●4, ZB4 BA●6



Common face view



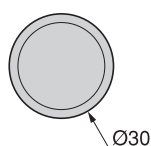
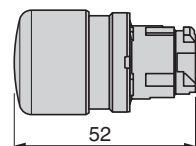
ZB4 BP●, ZB4 BP●S, ZB4 BP●83, ZB4 BP●



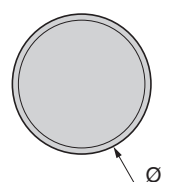
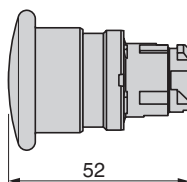
ZB4	a
BP●	36.5
BP●S	33
BP●83	32
BP●	35

Mushroom heads for spring return pushbuttons

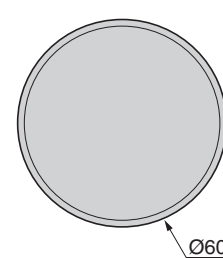
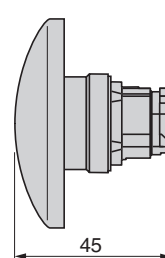
ZB4 BC●4



ZB4 BC●, ZB4 BR●

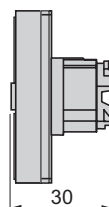


ZB4 BR●16

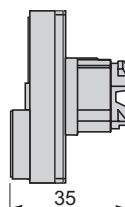


ZB4	Ø
BC●	40
BR●	60

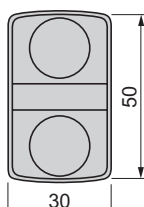
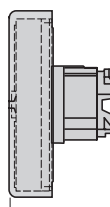
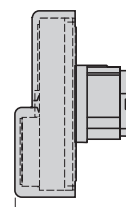
Heads for double-headed, spring return pushbuttons

ZB4 BA712●,
ZB4 BA734●,
ZB4 BA79


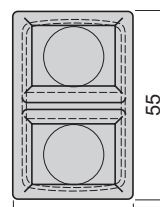
ZB4 BL734●



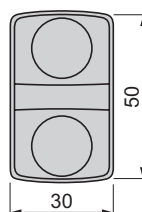
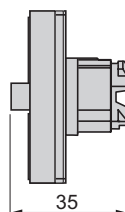
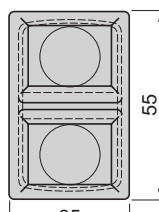
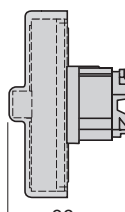
Common face view


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

ZB4 BL734●
+ boot ZBA710


Common face view

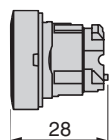


Heads for triple-headed, spring return pushbuttons

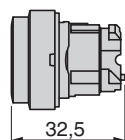
ZB4 BA7313●, ZB4 BA711●●,
ZB4 BA72124, ZB4 BA791

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


Heads for "push-push to release" pushbuttons

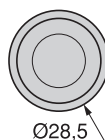
ZB4 BH0●



ZB4 BH●



Common face view

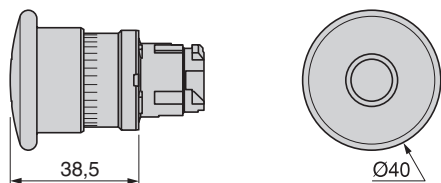


1

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

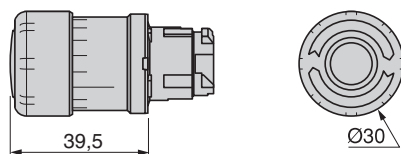
"Push-pull"

ZB4 BT84

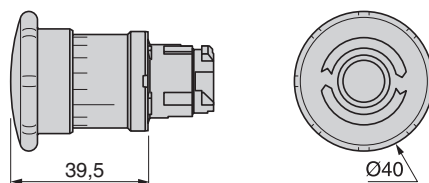


Turn to release

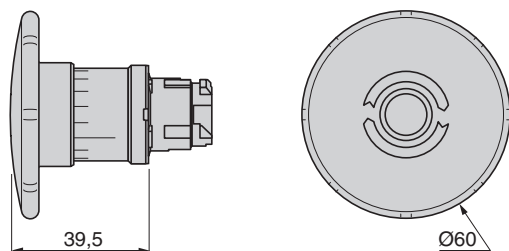
ZB4 BS834



ZB4 BS844

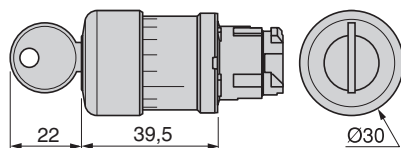


ZB4 BS864

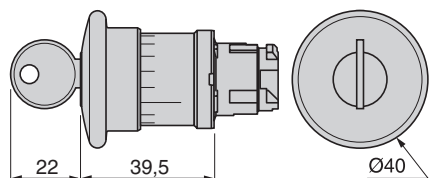


Key release

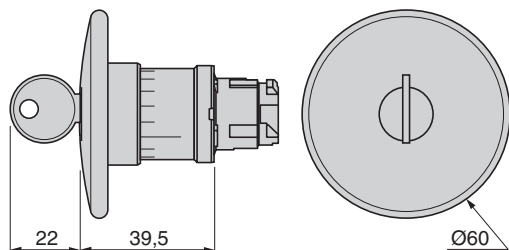
ZB4 BS934



ZB4 BS944



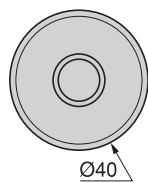
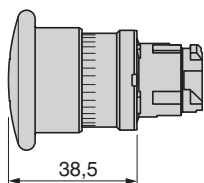
ZB4 BS964



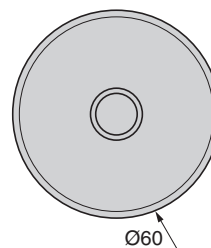
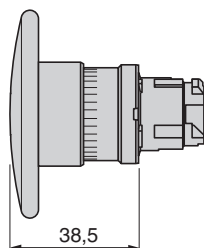
Mushroom heads for Emergency switching off, mechanical latching pushbuttons

Push-pull

ZB4 BT4

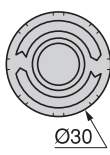
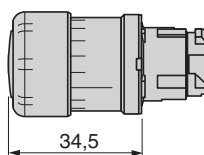


ZB4 BX4

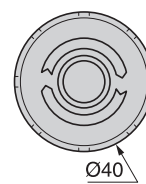
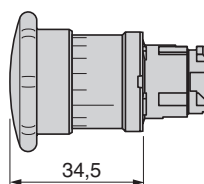


Turn to release

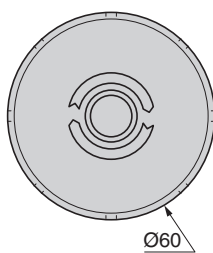
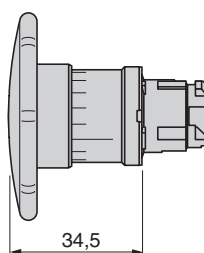
ZB4 BS44



ZB4 BS54

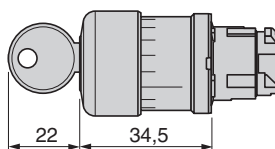


ZB4 BS64

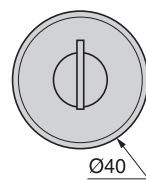
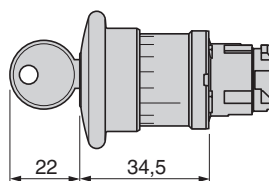


Key release

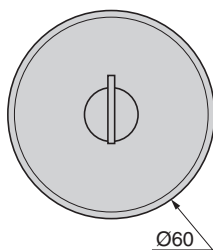
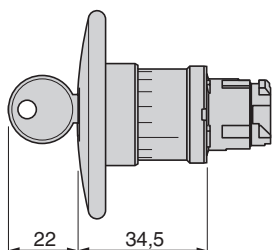
ZB4 BS74



ZB4 BS14



ZB4 BS24

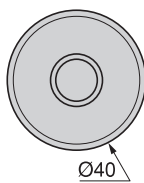
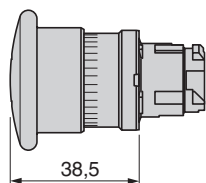


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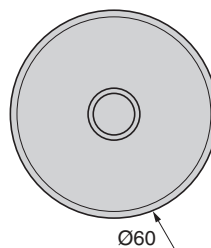
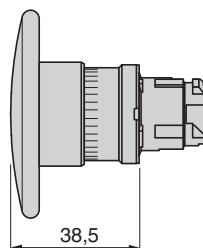
Mushroom heads for latching pushbuttons (1)

Push-pull

ZB4 BT2

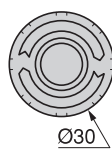
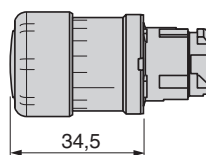


ZB4 BX2

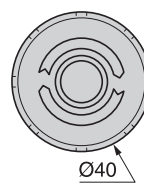
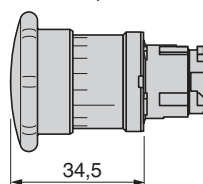


Turn to release

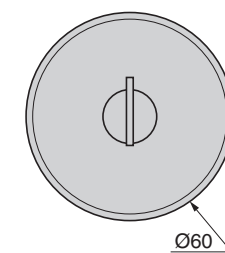
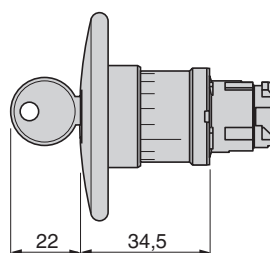
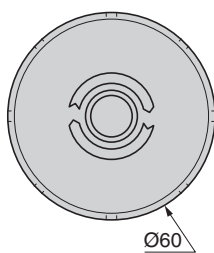
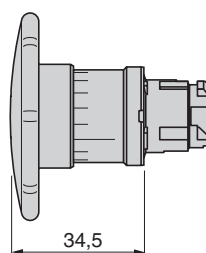
ZB4 BS42



ZB4 BS52, ZB4 BS55

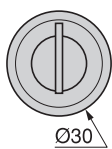
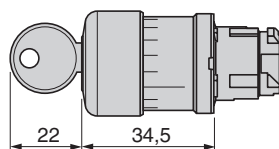


ZB4 BS62

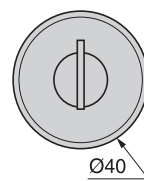
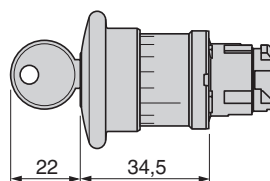


Key release

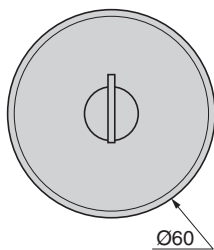
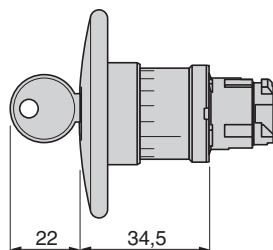
ZB4 BS72



ZB4 BS12



ZB4 BS22

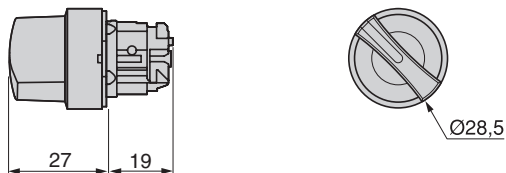


(1) Red mushroom heads for Emergency stop and Emergency switching off, latching pushbuttons: see pages 1/110 and 1/111.

Heads for selector switches

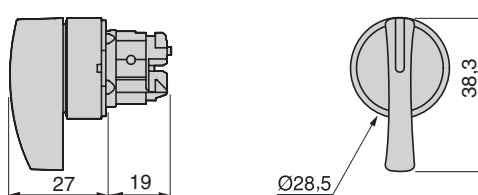
Standard handle operator

ZB4 BD●, ZB4 BD0●M



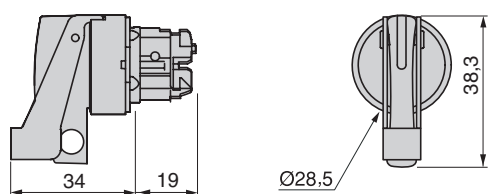
Long handle operator

ZB4 BJ●, ZB4 BD0●M



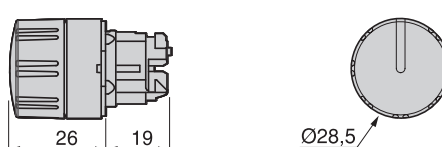
Padlockable long handle operator (6.35 mm shank max.)

ZB4 BJ●9●



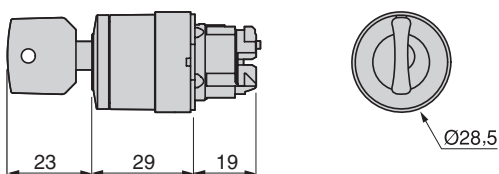
Black knurled knob

ZB4 BD●9



Key switches

ZB4 BG●, ZB4 BG0●, ZB4 BG0●M



Heads for toggle switches

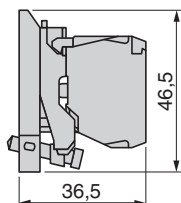
ZB4 BD●8



Bodies for pushbuttons and switches

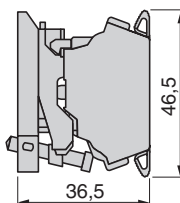
Screw clamp terminal connections

ZB4 BZ10●, ZB4 BZ141



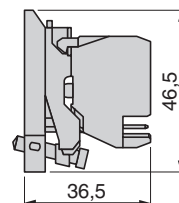
Spring terminal connections

ZB4 BZ10●5



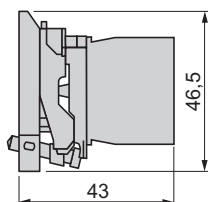
Plug-in connector

ZB4 BZ10●4, ZB4 BZ1414



High power switching with screw clamp terminal connections

ZBE 50● block + ZB4 BZ009 body

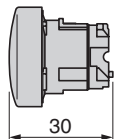


1

Heads for pilot lights, with light source

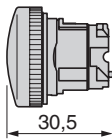
Integral LED

ZB4 BV0●3, ZB4 BV0●3S

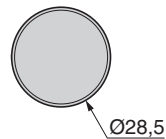


Incandescent, neon or LED

ZB4 BV0●, ZB4 BV0●S



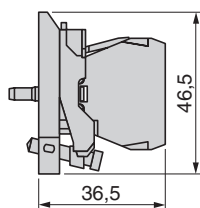
Common face view



Bodies for pilot lights, screw clamp terminal connections

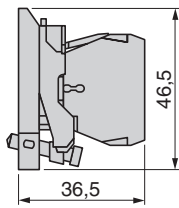
Integral LED

ZB4 BV●●



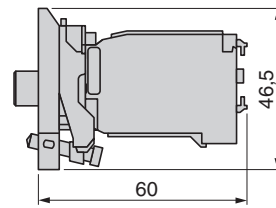
Direct supply, for BA 9s bulb

ZB4 BV6



Via integral transformer, for BA 9s bulb

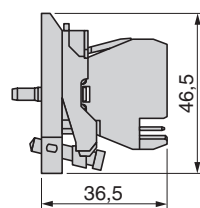
ZB4 BV●, ZB4 BV●D●



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

Integral LED

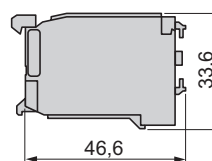
ZBV ●●4 light block + ZB4 BZ009 body/fixing collar



Transformer blocks

For 24 V light blocks with integral LED

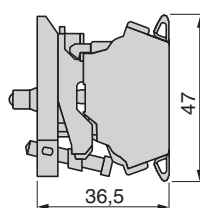
ZBV 5B, ZBV 8B, ZBV 9B



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

Integral LED

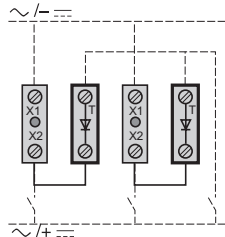
ZBV ●●5 light block + ZB4 BZ009 body/fixing collar



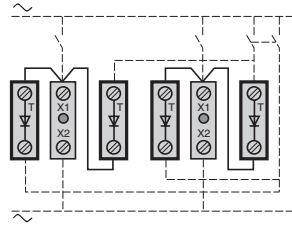
Connections

Blocks for "test light" function

ZBZ G156



ZBZ M156



Heads for spring return illuminated pushbuttons, for light source types

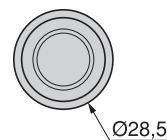
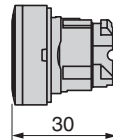
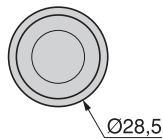
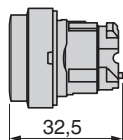
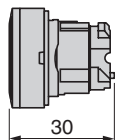
LED

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

ZB4 BW1●3, ZB4 BL●8

Common face view

ZB4 BW9●3

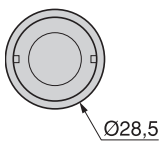
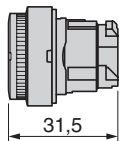
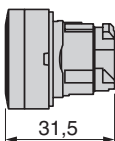


Incandescent or neon

ZB4 BW3●3, ZB4 BW3●S

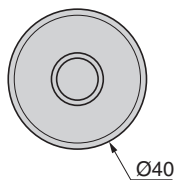
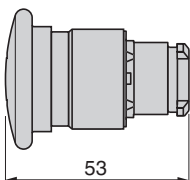
ZB4 BW1●

Common face view



Heads for Ø 40 mm mushroom head illuminated pushbuttons with LED

ZB4 BW4●3, ZB4 BW6●3

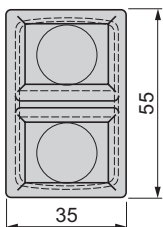
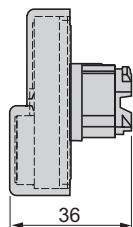
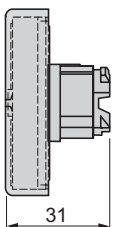


Heads for double-headed pushbuttons + pilot light

ZB4 BW7A374●,
ZB4 BW7A17●●,
ZB4 BW7A9

ZB4 BW7L374●

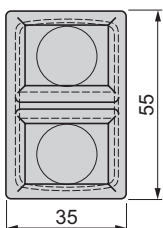
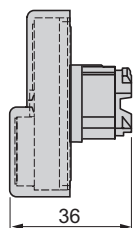
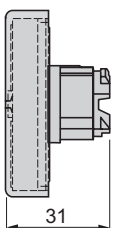
Common face view



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

ZB4 BW7L374●
+ boot ZBA 710

Common face view

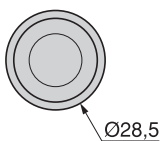
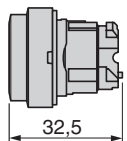
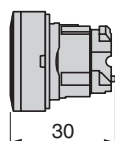


Heads for illuminated “push-push to release” pushbuttons

ZB4 BH0●3

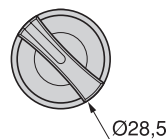
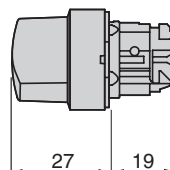
ZB4 BH●3

Common face view



Heads for illuminated selector switches with standard handle

ZB4 BK1●●●3

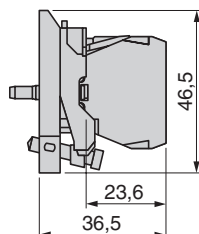


Bodies for illuminated pushbuttons and switches

Screw clamp terminal connections

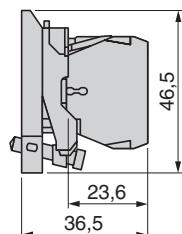
Integral LED

ZB4 BW0...



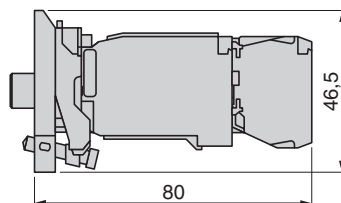
Direct supply, BA 9s bulb

ZB4 BW06...



Via integral transformer, BA 9s bulb

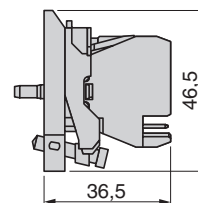
ZB4 BW0... , BW0...D...



Plug-in connector

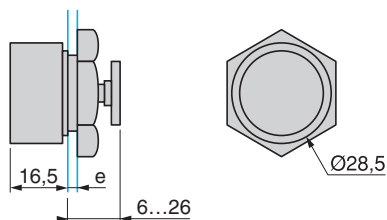
Integral LED

ZB4 BW0...4

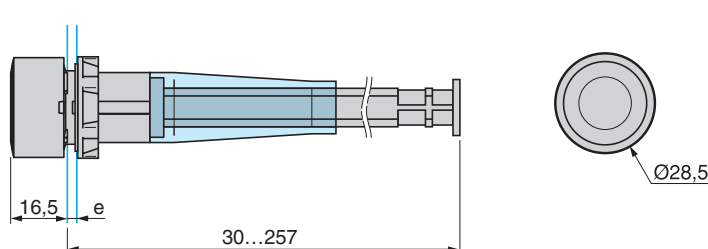


Manual overload reset buttons

XB4 BA8...



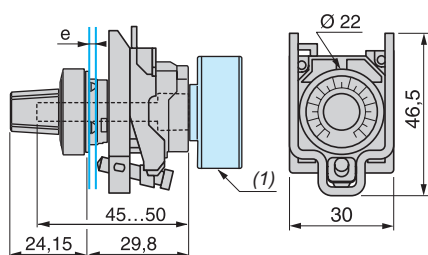
XB4 BA9...



e: panel thickness 1 to 6 mm

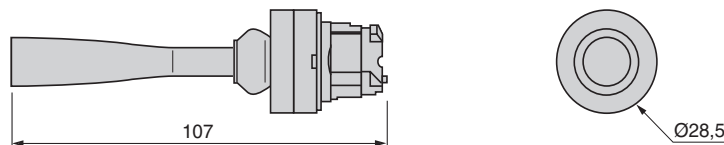
Heads + mounting base for potentiometer

ZB4 BD9...2



Wobblestick head

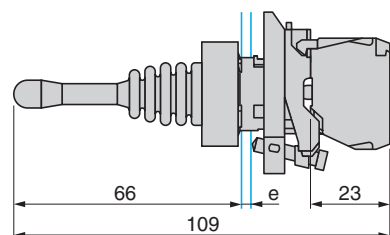
ZB4 BB...



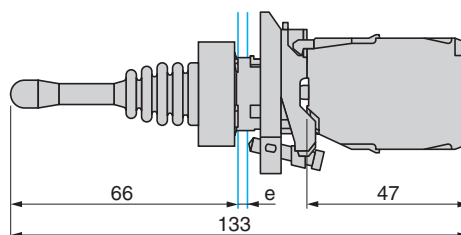
(1) Potentiometer not included.

Joystick controllers

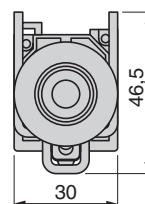
XD4 PA...2



XD4 PA...4



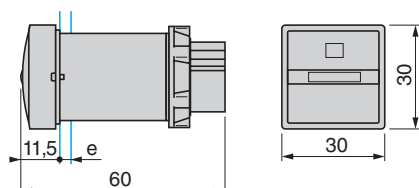
Common face view



e: panel thickness 1 to 6 mm

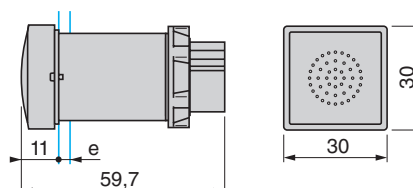
Hour counters

XB5 DS...



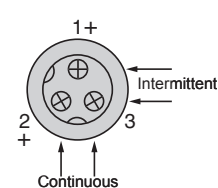
Annunciators

XB5 KS...



Cabling

XB5 KS...



e: panel thickness 1 to 6 mm