Specifications



Head for key selector switch, Harmony XB4, metal, black, 22mm, key 455, 2 positions, spring return right to left

ZB4BG6

Main					
Range of product	Harmony XB4				
Product or component type	Head for key selector switch				
Device short name	ZB4				
Bezel material	Chromium plated metal				
Mounting diameter	22 mm				
Head type	Standard				
Sale per indivisible quantity	1				
Shape of signaling unit head	Round				
Return	Right to left				
Operator profile	Black key switch				
Operator position information	2 positions 90°				
Type of keylock	Key 455				
Key withdrawal position	Left				
Complementary					
CAD overall width	29 mm				
CAD overall height	29 mm				
CAD overall depth	72 mm				
Net weight	0.098 kg				
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m				
Mechanical durability	1000000 cycles				
Electrical composition code	C3 for <6 contacts using single blocks in front mounting C4 for <6 contacts using single and double blocks in front mounting C5 for <5 contacts using single blocks in front mounting				

C7 for <4 contacts using single blocks in front mounting C8 for <4 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting C15 for <1 contacts using single blocks in front mounting

**Device presentation** 

Basic element

#### Environment

**Protective treatment** 



mbient air temperature for -4070 °C torage						
Ambient air temperature for operation	-4070 °C					
Overvoltage category	Class I conforming to IEC 60536					
IP degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K					
NEMA degree of protection	NEMA 13 NEMA 4X					
IK degree of protection	IK06 with keyhole cover ZBGP conforming to IEC 50102					
Standards	EN/IEC 60947-1 EN/IEC 60947-5-5 EN/IEC 60947-5-4 UL 508 CSA C22.2 No 14 GB 14048.5 EN/IEC 60947-5-1					
Product certifications	LROS (Lloyds register of shipping) UL listed DNV GL CSA BV					
Vibration resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6					
Shock resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27					

### **Packing Units**

0	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.600 cm
Package 1 Width	5.400 cm
Package 1 Length	9.100 cm
Package 1 Weight	103.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	8.800 cm
Package 2 Width	26.000 cm
Package 2 Length	3.300 cm
Package 2 Weight	520.000 g
Unit Type of Package 3	S03
Number of Units in Package 3	100
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	10.861 kg

### Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	

Mercury free	Yes			
China RoHS Regulation	China RoHS declaration			
RoHS exemption information	Yes			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End of Life Information			

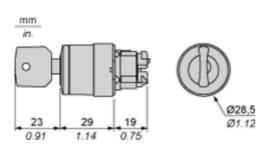
#### **Contractual warranty**

Warranty

18 months

**Dimensions Drawings** 

### Dimensions



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Mounting and Clearance

#### 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				
(2) 40 mm min. / 1.57 in. min.				
(3) 30 mm min. / 1.18 in. min.				
(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm 0 <sup>+0.4</sup> / 0.88 in. 0 <sup>+0.016</sup> )				
(5) 45 mm min. / 1.78 in. min.				
(6) 32 mm min. / 1.26 in. min.				

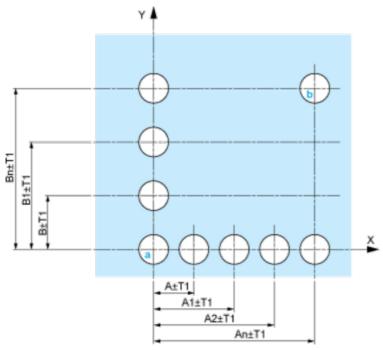


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Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

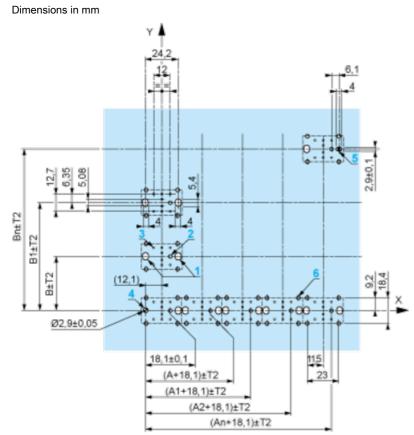
#### Panel Cut-outs (Viewed from Installer's Side)



A: 30 mm min. / 1.18 in. min.

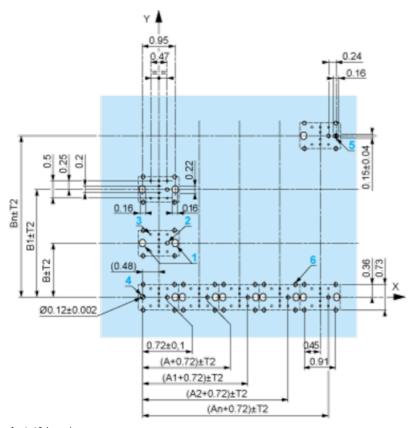
**B:** 40 mm min. / 1.57 in. min.

### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)



**A:** 30 mm min. **B:** 40 mm min.

Dimensions in in.





B: 1.57 in. min.

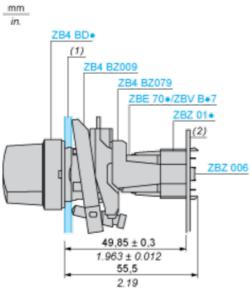
#### General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

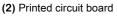
#### **Installation Precautions**

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB4 BZ009: ± 2<sup>°</sup>30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ 006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
  - $\circ~$  every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - with each selector switch head (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

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



(1) Panel



#### Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.

ZB4BG6

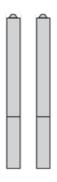
Technical Description





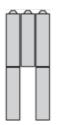
ZB4BG6

Technical Description



ZB4BG6

Technical Description





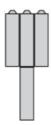
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Technical Description



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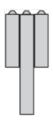
Technical Description





ZB4BG6

Technical Description



ZB4BG6

Technical Description

Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1





ZB4BG6

Technical Description

### Electrical Composition Corresponding to Code C15

1 N/O

1 N/C



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



ZB4BG6

Technical Description

#### Legend

Single contact



#### Double contact



#### Light block



#### Possible location

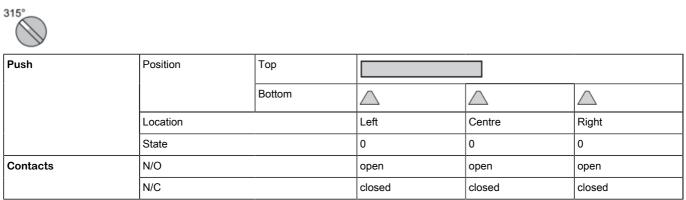


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Technical Description

#### Sequence of Contacts Fitted to 2-position Selector Switch Body

#### Position 315°



#### Position 45°

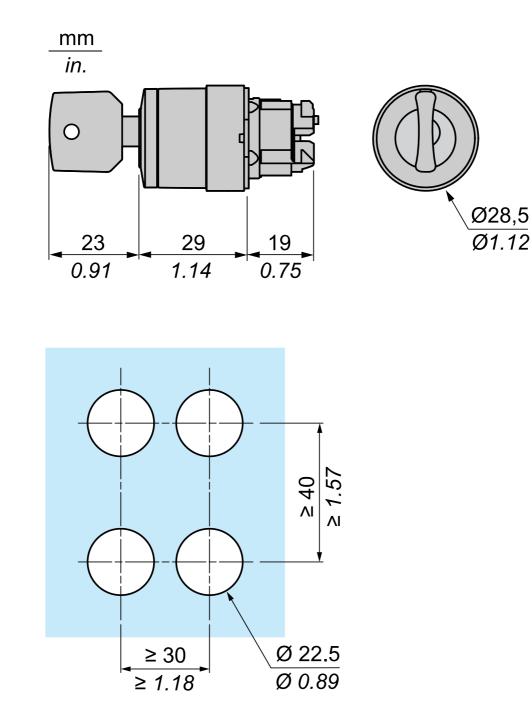


Push	Position	Тор			
		Bottom			
	Location		Left	Centre	Right
	State		1	1	1
Contacts	N/O		closed	closed	closed
	N/C		open	open	open

ZB4BG6

**Technical Illustration** 

#### Dimensions



Recommended replacement(s)

Life Is On Schneider