ZB4BG2 KEY SWITCH 2 fix position



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Harmony XB4
Head for key selector switch
ZB4
Chromium plated metal
22 mm
Standard
1
Round
Black key switch
2 positions 90°
Ronis 455
Left

Complementary

Device presentation	Basic element	:
	C3 for 6 contacts using single blocks in front mounting	
	C6 for 5 contacts using single and double blocks in front mounting	
	C5 for 5 contacts using single blocks in front mounting	
	C4 for 6 contacts using single and double blocks in front mounting	
	C8 for 4 contacts using single and double blocks in front mounting	
	C7 for 4 contacts using single blocks in front mounting	
	C11 for 3 contacts using single blocks in front mounting	
Electrical composition code	C15 for 1 contacts using single blocks in front mounting	
Mechanical durability	1000000 cycles	
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m	
Product weight	0.098 kg	
CAD overall depth	72 mm	
CAD overall height	29 mm	
CAD overall width	29 mm	
0.45		

Environment

Protective treatment	TH	<u>е</u> :
Ambient air temperature for storage	-4070 °C	_ clain_

Ambient air temperature for operation	-4070 °C
Overvoltage category	Class I conforming to IEC 60536
IP degree of protection	IP69 IP67 IP66 conforming to IEC 60529 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 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 UL 508 GB 14048.5 CSA C22.2 No 14
Product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed
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

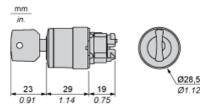
Contractual warranty

Warranty period	18 months

Product data sheet Dimensions Drawings

ZB4BG2

Dimensions



ZB4BG2

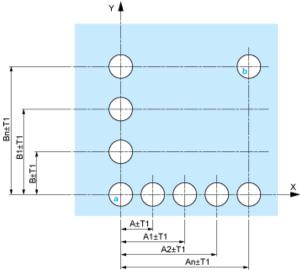
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
(2)	(5)

- Diameter on finished panel or support
- 40 mm min. / 1.57 in. min.
- 30 mm min. / 1.18 in. min.
- (1) (2) (3) (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0$ $^{+0.4}$ / 0.88 in. $_0$ $^{+0.016})$
- (5) (6) 45 mm min. / 1.78 in. min.
- 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

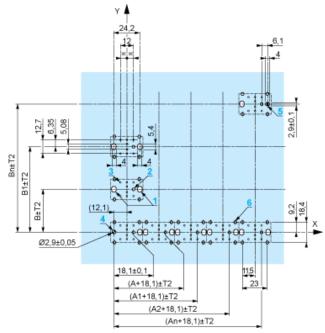


A: 30 mm min. / 1.18 in. min.

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

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

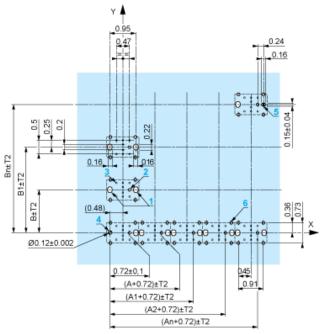
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min. B: 1.57 in. min.

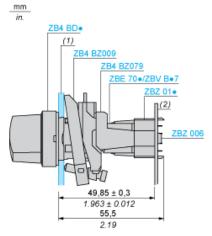
General Tolerances of the Panel and Printed Circuit Board

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 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:
 - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o 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.



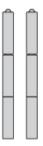
- (1) Panel
- (2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm \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 \pm 0.05 / 0.11 in. \pm 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 ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

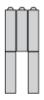
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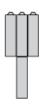
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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



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



ZB4BG2

п	Δ	a	۵	n	_

Single contact



Double contact



Light block



Possible location



ZB4BG2

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



Push	Position	Тор			
		Bottom	Δ	Δ	Δ
	Location		Left	Centre	Right
	State		0	0	0
Contacts	N/O		open	open	open
	N/C		closed	closed	closed

Position 45°



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