Product datasheet Characteristics

ZB4BG67

selector switch head Ø22 2-position spring return Ronis 455





(!) Discontinued

Main

TTT GITT		Ç
Range of product	Harmony XB4	
Product or component type	Head for key selector switch	
Device short name	ZB4	
Bezel material	Black 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	
Type of operator	Spring return	
Operator position information	2 positions 90°	
Type of keylock	Ronis 455	- 6
Key withdrawal position	Left	
		*

Complementary

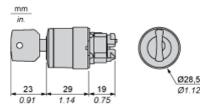
o o mpromornary		
CAD overall width	29 mm	<u>च</u> <u>द</u>
CAD overall height	29 mm	d Fi
CAD overall depth	72 mm	v.
Net weight	0.098 kg	<u>~</u> <u>~</u> <u>0</u>
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m	
Mechanical durability	1000000 cycles	
Electrical composition code	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 C6 for <5 contacts using single and double 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	ner. This documentation is

	C15 for \$1 contacts using single blocks in front mounting	
Device presentation	Basic element	
Environment		
Protective treatment	TH	
Ambient air temperature for storage	-4070 °C	
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	
Standards	UL 508 GB 14048.5 EN/IEC 60947-5-1 EN/IEC 60947-5-5 CSA C22.2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-4	
Product certifications	GL UL listed LROS (Lloyds register of shipping) CSA RINA BV DNV	
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		
Package 1 Weight	0.069 kg	
Package 1 Height	0.880 dm	
Package 1 width	0.340 dm	
Package 1 Length	0.540 dm	
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	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
Contractual warranty		
Contractual warranty	10 months	
Warranty	18 months	

Product datasheet Dimensions Drawings

ZB4BG67

Dimensions



ZB4BG67

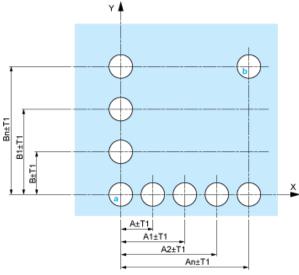
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

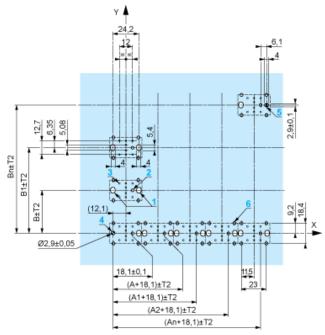
Panel Cut-outs (Viewed from Installer's Side)



- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

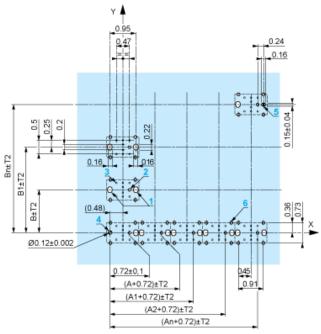
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

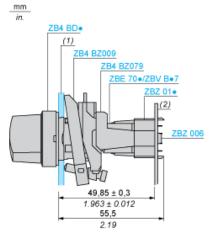
General Tolerances of the Panel and Printed Circuit Board

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•.

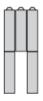
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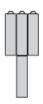
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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



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



ZB4BG67

Legend

Single contact



Double contact



Light block



Possible location



ZB4BG67

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				
			Left	Centre	Right
	State		1	1	1
Contacts	N/O		closed	closed	closed
	N/C		open	open	open

ZB4BG67 is replaced by the following product range:











Harmony XB4

Ø 22 mm modular metal pushbuttons, switches, and pilot lights

The modular range of Ø 22 mm metal control and signaling units combines simplicity of installation, efficiency, modern design, flexibility, and robustness, high level of customization to meet most industrial applications

Reason for Substitution: End of life | Substitution date: 20 November 2020