

black selector switch head Ø22 2-position stay put

Local distributor code: 237091125 ZB4BJ2

EAN Code: 3389110889024

Main

Range of product	Harmony XB4			
Product or component type	Head for 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			
Type of operator	stay put			
Operator profile	Black long handle			
Operator position information	2 positions 90°			

Complementary

CAD overall width	29 mm				
CAD overall height	38 mm				
CAD overall depth	44 mm				
Net weight	0.04 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 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 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	IP67 conforming to IEC 60529 IP69 IP69K			
NEMA degree of protection	NEMA 13 NEMA 4X			
IK degree of protection	IK06 conforming to IEC 50102			
Standards	UL 508 EN/IEC 60947-1 EN/IEC 60947-5-5 CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-5-4 JIS C8201-5-1 JIS C8201-1			
Product certifications	LROS (Lloyds register of shipping) DNV BV CSA GL 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			
Packing Units Unit Type of Package 1	PCE			
Number of Units in Package 1	1			
Package 1 Height	3.600 cm			
Package 1 Width	5.200 cm			
Package 1 Length	5.500 cm			
Package 1 Weight	45.000 g			
Unit Type of Package 2	BB1			
Number of Units in Package 2	5			
Package 2 Height	3.300 cm			
Package 2 Width	5.200 cm			
Package 2 Length	26.500 cm			
Package 2 Weight	226.000 g			
Unit Type of Package 3	S03			
Number of Units in Package 3	250			
Package 3 Height	30.000 cm			
Package 3 Width	30.000 cm			
Package 3 Length	40.000 cm			
Package 3 Weight	11.812 kg			
Offer Sustainability Sustainable offer status	Green Premium product			
REACh Regulation	REACh Declaration			
REACh free of SVHC	Yes			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
2	EU RoHS Declaration			

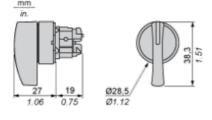
Toxic heavy metal free	Yes			
Mercury free	Yes			
China RoHS Regulation	China RoHS declaration			
RoHS exemption information	Yes			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End of Life Information			
Contractual warranty				

Warranty 18 months

ZB4BJ2

Dimensions Drawings

Dimensions



ZB4BJ2

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

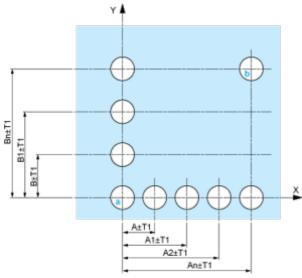
Connection by Faston Connectors

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 $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)
- (5) 45 mm min. / 1.78 in. min.
- (6) 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)

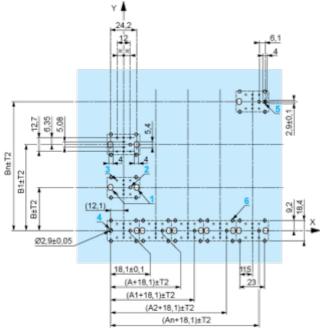


A: 30 mm min. / 1.18 in. min.

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

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

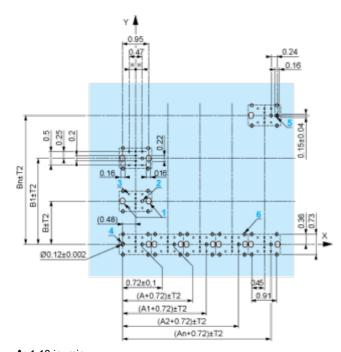
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

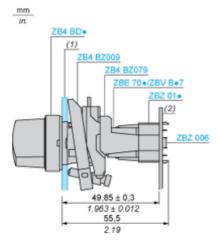
General Tolerances of the Panel and Printed Circuit Board

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

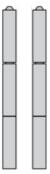
Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 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)
- $\bullet~$ 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01 $\bullet~$

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•.

ZB4BJ2

Technical Description



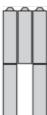
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Technical Description



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Technical Description



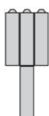
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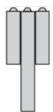
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Technical Description

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



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



Technical Description

Lea	end
-09	0

Single contact



Double contact



Light block



Possible location



ZB4BJ2

Technical Description

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



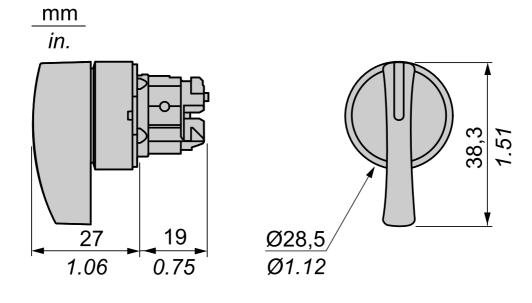
Push	Position Top				
		Bottom	\triangle	\triangle	\triangle
	Location State		Left	Centre	Right
			0	0	0
Contacts			open	open	open
			closed	closed	closed

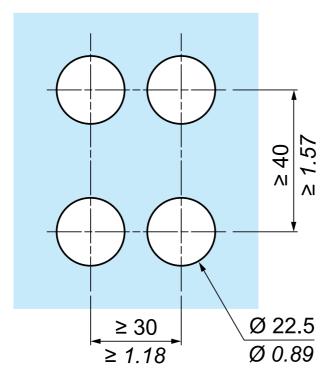
Position 45°



Push	Position Top					
	Bottom					
			Left	Centre	Right	
	State		1	1	1	
Contacts			closed	closed	closed	
			open	open	open	

Dimensions





Recommended replacement(s)