ZB4BJ7

Head for selector switch, Harmony XB4, metal, black, 22mm, long handle, 3 positions, spring return left to center





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	Left to centre spring return
Operator profile	Black long handle
Operator additional information	Non padlockable
Operator position information	3 positions +/- 45°

Complementary

Device presentation	Basic element			
	C11 for <3 contacts using single 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			
	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			
Electrical composition code	C3 for <6 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			
Net weight	0.04 kg			
CAD overall depth	44 mm			
CAD overall height	38 mm			
CAD overall width	29 mm			

Environment

Protective treatment	TH			
Ambient air temperature for storage	rage -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			
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Standards	JIS C8201-5-1			
	IEC 60947-5-4			
	IEC 60947-5-5 UL 508			
	IEC 60947-1			
	CSA C22.2 No 14 IEC 60947-5-1			
	JIS C8201-1			
Product certifications	UL listed[RETURN]CSA[RETURN]LROS (Lloyds register of shipping) [RETURN]DNV[RETURN]GL[RETURN]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				
Unit Type of Package 1	PCE			
Number of Units in Package 1	1			
Package 1 Height	5.000 cm			
Package 1 Width	3.500 cm			
Package 1 Length	5.000 cm			
Package 1 Weight	45.000 g			
Unit Type of Package 2	S03			
Number of Units in Package 2	250			
Package 2 Height	30.000 cm			
Package 2 Width	30.000 cm			
Package 2 Length	40.000 cm			
Package 2 Weight	11.769 kg			
Unit Type of Package 3	P06			
Number of Units in Package 3	2000			
Package 3 Height	75.000 cm			
Package 3 Width	60.000 cm			
Package 3 Length	80.000 cm			
Package 3 Weight	102.152 kg			
Offer Sustainability Sustainable offer status	Care and December and december			
	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)			
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			
California proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defor other reproductive harm. For more information go to www.P65Warnings.c			

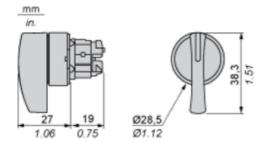
Contractual warranty

Warranty 18 months	
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Product data sheet Dimensions Drawings

ZB4BJ7

Dimensions



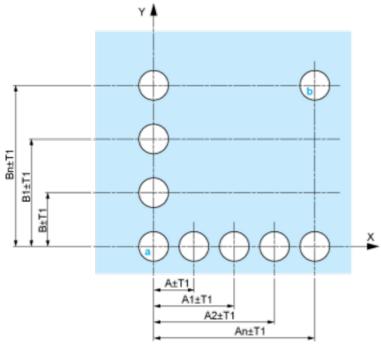
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board (1) (2) (3) (4)

- (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)

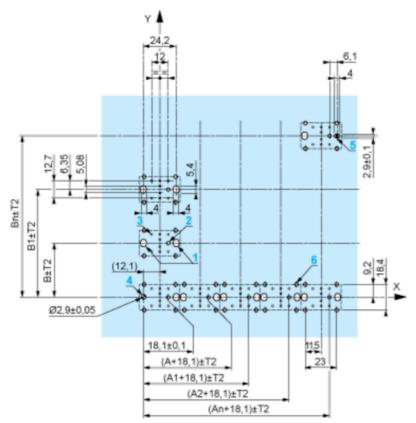


A: 30 mm min. / 1.18 in. min.

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

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

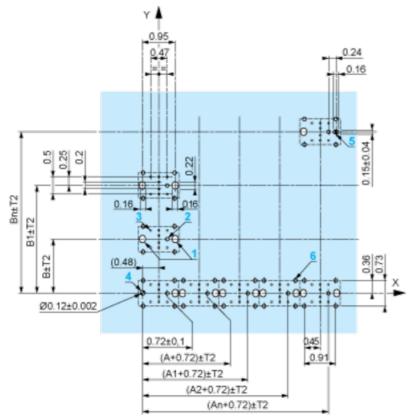
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

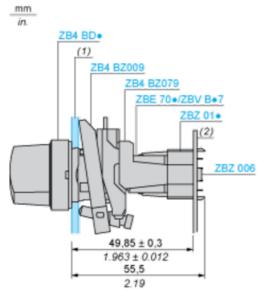
General Tolerances of the Panel and Printed Circuit Board

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•
- 38 × 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•.

Electrical Composition Corresponding to Code C3
Electrical Composition Corresponding to Code C4
Electrical Composition Corresponding to Code C5
Electrical Composition Corresponding to Code C6
,

Electrical Composition Corresponding to Code C7

Electrical Composition Corresponding to Code C8
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1
Legend
Single contact
Double contact
Double contact
Light block
Possible location

Position 315°





Push	Position	Тор			
Bottom			\triangle		
Location		Left	Centre	Right	
State		1	1	0	
Contacts	N/O		closed	closed	open
N/C		open	open	closed	

Position 0°



Push	Position	Тор			
Bottom					
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		Left	Centre	Right	
State		0	1	1	
Contacts	N/O		open	closed	closed
N/C		closed	open	open	