Product datasheet Characteristics

ZB4BJ5

black selector switch head Ø22 3-position spring return



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	:
Sale per indivisible quantity	1	:
Shape of signaling unit head	Round	
Type of operator	Spring return to centre	:
Operator profile	Black long handle	
Operator additional information	Non padlockable	
Operator position information	3 positions +/- 45°	:

Complementary

CAD overall width	29 mm	
CAD overall height	38 mm	<u>.</u>
CAD overall depth	44 mm	
Product weight	0.04 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m	<u>\$</u>
Mechanical durability	1000000 cycles	
Electrical composition code	C11 for <= 3 contacts using single blocks in front mounting C3 for <= 6 contacts using single blocks in front mounting C6 for <= 5 contacts using single and double blocks in front mounting C8 for <= 4 contacts using single and double 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	
Main group	Selector switch	
Group of product	Long handle not padlockable	
Cap/Operator or lens colour	Black	

Compatibility code	ZB4
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	IP69 IP67 conforming to IEC 60529 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 conforming to IEC 50102
Standards	CSA C22.2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-4 UL 508 JIS C 4520 EN/IEC 60947-5-1 EN/IEC 60947-5-5
Product certifications	RINA UL listed DNV GL BV CSA LROS (Lloyds register of shipping)
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27

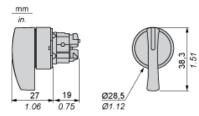
18 months

Warranty period

Product datasheet Dimensions Drawings

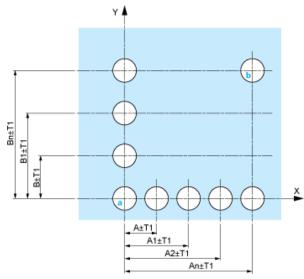
ZB4BJ5

Dimensions



Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

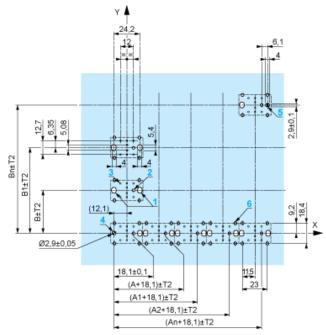


A: 30 mm min. / 1.18 in. min.

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

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

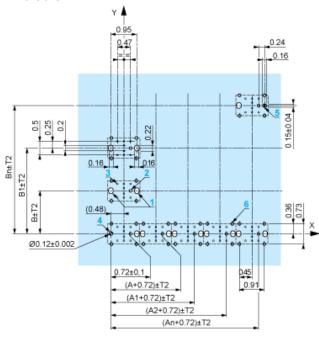
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

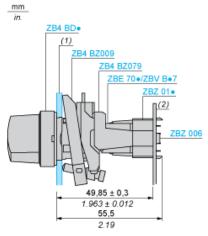
General Tolerances of the Panel and Printed Circuit Board

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•

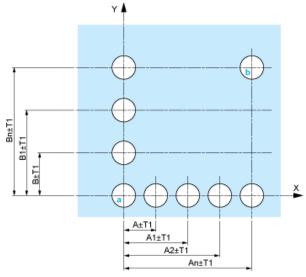
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ 01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm \pm 0.05 / 0.11 in. \pm 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning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



Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

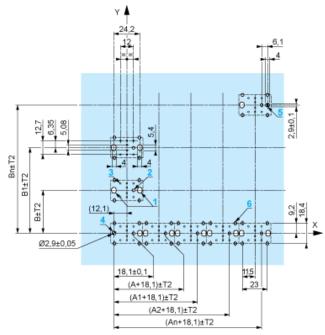
Panel Cut-outs (Viewed from Installer's Side)



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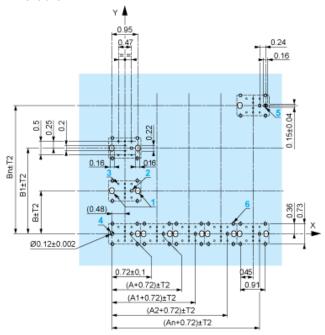
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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Dimensions in in.



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

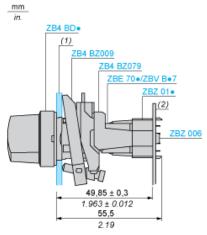
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Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
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- 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)
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ZB4BJ5

Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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



Push	Position	Тор			
Bottom			•		
Location		Left	Centre	Right	
State		0	1	1	
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N/C	•	closed	closed	closed	

Position 45°



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

ZB4BJ5

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9							
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Bottom							
Location		Left	Centre	Right			
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