Product datasheet Characteristics

ZB4BJ4

black selector switch head Ø22 2-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 right to left	:
Operator profile	Black long handle	
Operator additional information	Non padlockable	
Operator position information	2 positions 90°	

Complementary

CAD overall width	29 mm	
CAD overall height	38 mm	<u>.</u> .
CAD overall depth	44 mm	ç
Product weight	0.045 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m	<u> </u>
Mechanical durability	1000000 cycles	0
Electrical composition code	C4 for <= 6 contacts using single and double blocks in front mounting C11 for <= 3 contacts using single blocks in front mounting C7 for <= 4 contacts using single blocks in front mounting C5 for <= 5 contacts using single blocks in front mounting C15 for 1 contacts using single blocks in front mounting C8 for <= 4 contacts using single and double blocks in front mounting C6 for <= 5 contacts using single and double blocks in front mounting C3 for <= 6 contacts using single blocks in front mounting	documentation is not intende
Main group	Selector switch	. <u>.</u>
Group of product	Long handle not padlockable	<u> </u>

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 IP69K IP67 conforming to IEC 60529
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 conforming to IEC 50102
Standards	EN/IEC 60947-5-4 CSA C22.2 No 14 EN/IEC 60947-5-5 JIS C 4520 UL 508 EN/IEC 60947-1 EN/IEC 60947-5-1
Product certifications	LROS (Lloyds register of shipping) DNV RINA CSA UL listed GL 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

Contractual warranty

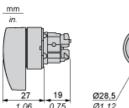
Warranty period	18 months
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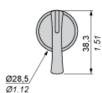


Product datasheet Dimensions Drawings

ZB4BJ4

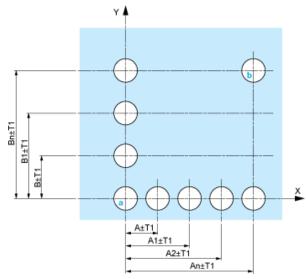
Dimensions





Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

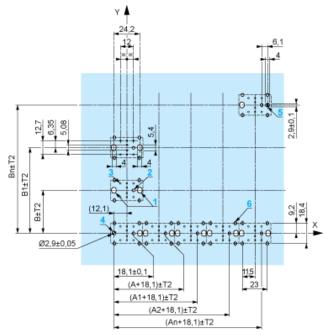


A: 30 mm min. / 1.18 in. min.

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

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

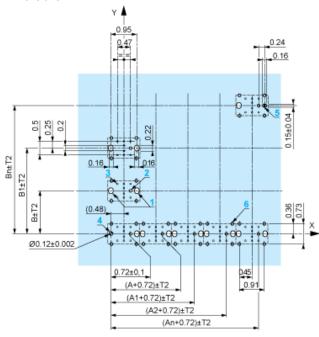
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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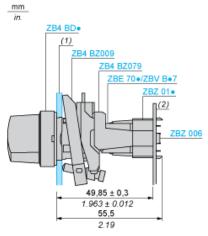
General Tolerances of the Panel and Printed Circuit Board

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•

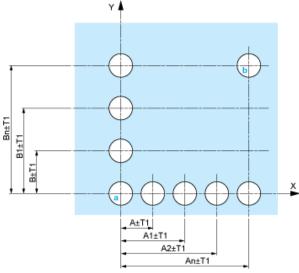
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ 01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm \pm 0.05 / 0.11 in. \pm 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning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

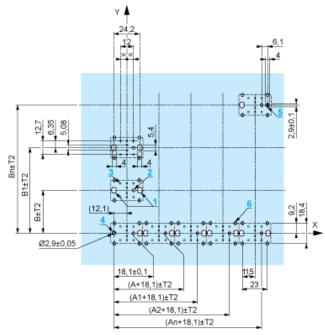
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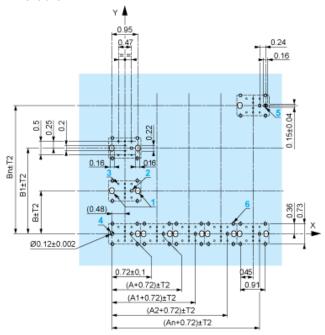
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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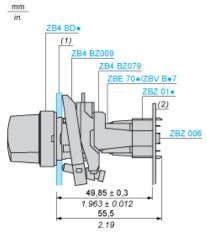
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- 1 2 elongated holes for ZBZ 006 screw access
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ZB4BJ4

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	



Push	Position	Тор			
Bottom			,		
Location		Left	Centre	Right	
State		1	1	1	
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ZB4BJ4

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Position 45°



Push	Position	Тор			
Bottom					
Location		Left	Centre	Right	
State		1	1	1	
Contacts	N/O		closed	closed	closed
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ZB4BJ4

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Schneider Electric

ZB4BJ4

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