Product data sheet Characteristics

ZB4BP6

blue projecting pushbutton head Ø22 spring return unmarked



Main

Main		
Range of product	Harmony XB4	
Product or component type	Head for non-illuminated push-button	
Device short name	ZB4	
Product compatibility	Not compatible with legend holder	
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	
	Disconsideration and add	
Operator profile	Blue projecting unmarked	
Operator profile Operator additional information	Clear boot	
<u> </u>		
Operator additional information Complementary CAD overall width	Clear boot	
Operator additional information Complementary CAD overall width CAD overall height	Clear boot 30 mm	
Operator additional information Complementary	Clear boot 30 mm 30 mm	
Operator additional information Complementary CAD overall width CAD overall height CAD overall depth	Clear boot 30 mm 30 mm 35 mm	
Operator additional information Complementary CAD overall width CAD overall height CAD overall depth Mechanical durability	Clear boot 30 mm 30 mm 35 mm 10000000 cycles C1 for <= 9 contacts using single blocks in front mounting C2 for <= 9 contacts using single and double blocks in front mounting C11 for <= 3 contacts using single blocks in front mounting	
Operator additional information Complementary CAD overall width CAD overall height CAD overall depth Mechanical durability Electrical composition code	Clear boot 30 mm 30 mm 35 mm 10000000 cycles C1 for <= 9 contacts using single blocks in front mounting C2 for <= 9 contacts using single and double blocks in front mounting C11 for <= 3 contacts using single blocks in front mounting	
Operator additional information Complementary CAD overall width CAD overall height CAD overall depth Mechanical durability Electrical composition code Environment Protective treatment	Clear boot 30 mm 30 mm 10000000 cycles C1 for <= 9 contacts using single blocks in front mounting C2 for <= 9 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	
Operator additional information Complementary CAD overall width CAD overall height CAD overall depth Mechanical durability Electrical composition code Environment Protective treatment Ambient air temperature for storage	Clear boot 30 mm 30 mm 35 mm 10000000 cycles C1 for <= 9 contacts using single blocks in front mounting C2 for <= 9 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 TH	
Operator additional information Complementary CAD overall width CAD overall height CAD overall depth Mechanical durability Electrical composition code	Clear boot 30 mm 30 mm 35 mm 10000000 cycles C1 for <= 9 contacts using single blocks in front mounting C2 for <= 9 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 TH -4070 °C	

Complementary

CAD overall width	30 mm	
CAD overall height	30 mm	
CAD overall depth	35 mm	
Mechanical durability	10000000 cycles	
Electrical composition code	C1 for <= 9 contacts using single blocks in front mounting C2 for <= 9 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	

Environment

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TH	— tetre
-4070 °C	— Lingo
-4070 °C	— sid
Class I conforming to IEC 60536	
IP67	- sclair
	-4070 °C -4070 °C Class I conforming to IEC 60536

IP66 conforming to IEC 60529

NEMA degree of protection	NEMA 13 NEMA 4X	
IK degree of protection	IK06 conforming to IEC 50102	
Standards	UL 508 EN/IEC 60947-5-1 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-4 JIS C 4520 EN/IEC 60947-5-5	
Product certifications	DNV BV RINA LROS (Lloyds register of shipping) 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 6006 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 6006		

Contractual warranty

Warranty period	18 months	

Product data sheet Dimensions Drawings

ZB4BP6

Dimensions

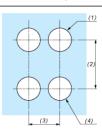


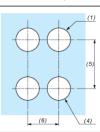


	a in mm	a in in.
ZB4BP••	36.5	1.44
ZB4BP•S	33	1.30
ZB4BP•83	32	1.26
ZB4BP•	35	1.38

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 to Dimediac day of Faston Connectors

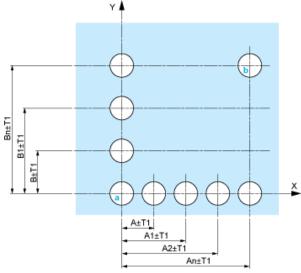




- Diameter on finished panel or support
- (2) (3) 40 mm min. / 1.57 in. min.
- 30 mm min. / 1.18 in. min.
- Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0$ $^{+0.4}$ / 0.88 in. $_0$ $^{+0.016}$) (4)
- 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

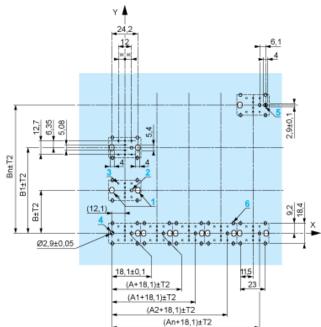
Panel Cut-outs (Viewed from Installer's Side)



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

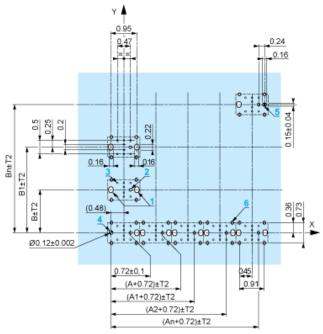
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

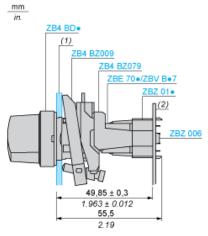
General Tolerances of the Panel and Printed Circuit Board

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

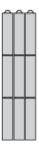
Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm \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•.

ZB4BP6

Electrical Composition Corresponding to Code C1



ZB4BP6

Electrical Composition Corresponding to Code C2



ZB4BP6

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



ZB4BP6

Legend

Single contact



Double contact



Light block



Possible location

