Product data sheet Characteristics

ZB5CL5

yellow square projecting pushbutton head Ø22 spring return unmarked



Main

Main			
Range of product	Harmony XB5		
Product or component type	Head for non-illuminated push-button		
Device short name	ZB5		
Bezel material	Dark grey plastic		
Mounting diameter	22 mm		
Head type	Standard		
Sale per indivisible quantity	1		
Shape of signaling unit head	Square		
Type of operator	Spring return		
Operator profile	Yellow projecting unmarked		
Complementary CAD overall width	30 mm		
	30 mm		
CAD overall height	30 mm		
CAD overall depth	33 mm		
Product weight	0.021 kg		
Mechanical durability	5000000 cycles		
Station name	XALD 15 cut-outs XALK 25 cut-outs		
Electrical composition code	C15 for 1 contacts using single blocks in front mounting C11 for 3 contacts using single blocks in front mounting SF1 for 3 contacts using single blocks in front mounting C1 for 9 contacts using single blocks in front mounting C2 for 9 contacts using single and double blocks in front mounting SR1 for 3 contacts using single blocks in rear mounting		

Environment

	SR1 for 3 contacts using single blocks in rear mounting	nded as
Environment		s not inte
Protective treatment	TH	tion
Ambient air temperature for storage	-4070 °C	nenta
Ambient air temperature for operation	-2570 °C	docur
Overvoltage category	Class II conforming to IEC 60536	This c
IP degree of protection	IP66 conforming to IEC 60529	mer:
NEMA degree of protection	NEMA 13	Disclair

	NEMA 4X			
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m			
IK degree of protection	IK03 conforming to IEC 50102			
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 JIS C 4520 UL 508 CSA C22.2 No 14			
Product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed			
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			
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6			

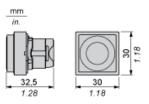
18 months

Contractual warranty

Warranty period

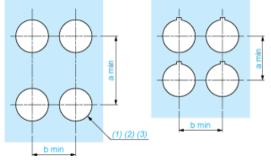
Product data sheet Dimensions Drawings

Dimensions



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

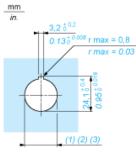
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- (1) (2) (3) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. Ø22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$)

Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

Detail of Lug Recess

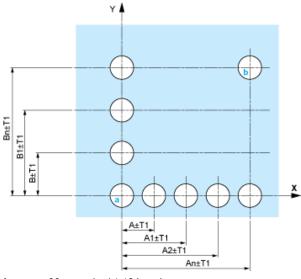


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Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

ZB5CL5

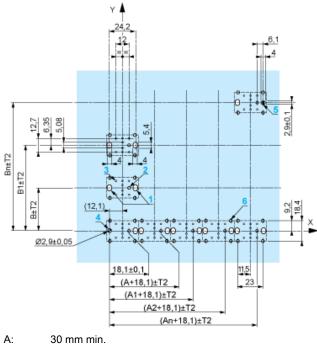




- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

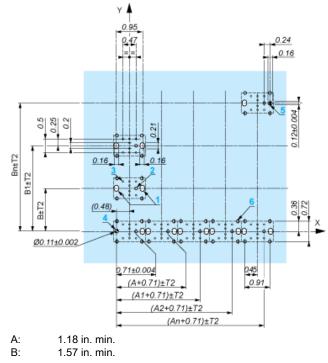
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



B: 40 mm min.

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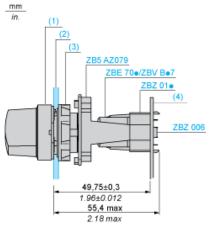
General Tolerances of the Panel and Printed Circuit Board

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 ZB5AZ009: ± 2°30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
 - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



- Head ZB5AD•
- (1) (2) (2) Panel
- Nut
- (4) Printed circuit board

Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- + 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01+
- 3 8 × 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 ZBZ01•

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

Technical Description

Electrical Composition Corresponding to Code C1



Technical Description

Electrical Composition Corresponding to Code C2



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



Product data sheet Technical Description

Electrical Composition Corresponding to Code C15







1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



Product data sheet

Technical Description

Legend

Single contact

Double contact



Light block



Possible location



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