ZB5AA58

yellow flush pushbutton head Ø22 spring return unmarked



Main Range of product Harmony XALF Harmony XB5 Head for illuminated pushbutton Product or component type Device short name ZB5 Product compatibility Integral LED Bezel material Plastic Mounting diameter 22 mm Sale per indivisible quantity Shape of signaling unit Round head

Orange flush unmarked

For insertion of legend

Spring return

Complementary

1	
CAD overall width	29 mm
CAD overall height	29 mm
CAD overall depth	30 mm
Product weight	0.018 kg
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m
Mechanical durability	5000000 cycles
Station name	XALK 25 cut-outs XALD 15 cut-outs
Electrical composition code	MR1 for <= 2 contacts using single blocks in rear mounting with integral LED MF1 for <= 2 contacts using single blocks in front mounting with integral LED SR2 for <= 2 contacts using single blocks in rear mounting SF2 for <= 2 contacts using single blocks in front mounting M10 for <= 2 contacts using single blocks in front mounting with integral LED M6 for <= 2 contacts using single blocks in front mounting with integral LED and transformer M2 for <= 6 contacts using single and double blocks in front mounting with integral LED M1 for <= 6 contacts using single blocks in front mounting with integral LED C14 for <= 2 contacts using single blocks in front mounting C4 for <= 6 contacts using single and double blocks in front mounting C3 for <= 6 contacts using single blocks in front mounting

Type of operator

Operator profile

formation

Operator additional in-

Environment

Protective treatment	TC			
Ambient air temperature for storage	-4070 °C			
Ambient air temperature for operation	-2570 °C			
Class of protection against electric shock	Class II conforming to IEC 60536			
IP degree of protection	IP66 conforming to IEC 60529			
NEMA degree of protection	NEMA 4X			
	NEMA 13			
IK degree of protection	IK05 conforming to EN 50102			

Standards	EN/IEC 60947-1		
	EN/IEC 60947-5-1 EN/IEC 60947-5-4		
	JIS C 4520		
	UL 508		
	GB 14048.5		
	CSA C22.2 No 14		
Product certifications	BV		
	CSA		
	DNV		
	GL		
	LROS (Lloyds register of shipping)		
	RINA		
	UL listed		
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		
	00000-2-21		

Product data sheet Dimensions Drawings

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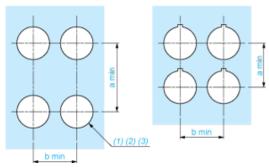
Dimensions





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
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \emptyset 22.5 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

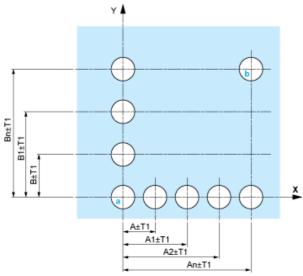
Detail of Lug Recess



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- Ø22.5 mm recommended (Ø22.3 $_0$ ^{+0.4}) / Ø0.89 in. recommended (Ø0.88 in. $_0$ ^{+0.016})

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

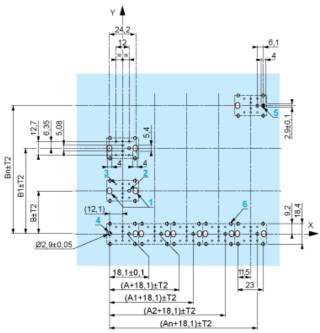
Panel Cut-outs (Viewed from Installer's Side)



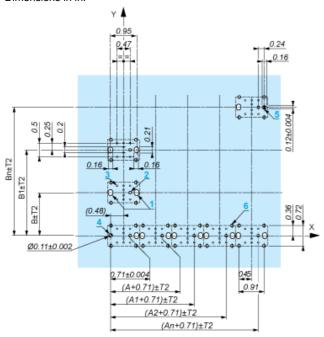
A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

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.

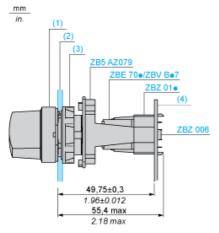
General Tolerances of the Panel and Printed Circuit Board

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 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:
 - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o 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.



- (1) Head ZB5AD•
- (2) Panel
- (2) 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 \pm 0.05 / 0.09 in. \pm 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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01 \bullet .

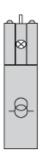


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Electrical Composition Corresponding to Code C3
Electrical Composition Corresponding to Code C4
Electrical Composition Corresponding to Codes C14, SF2 and SR2
Floatrice Corposition Corposed in the Codes M4 and M7
Electrical Composition Corresponding to Codes M1 and M7
Electrical Composition Corresponding to Codes M2 and M8



Electrical Composition Corresponding to Codes M6 and P2



Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



Legend

Single contact



Double contact



Light block



Possible location

