ZB5AH63C1

blue projecting illum pushbutton head for integral LED cp white



Main Range of product Harmony XB5 Product or component Head for illuminated push-button Product compatibility Integral LED Device short name ZB5 Bezel material Plastic colour plated white Mounting diameter 0.87 in (22 mm) Standard Head type Sale per indivisible quantity Shape of signaling unit Round head Type of operator push-push Operator profile Blue projecting, unmarked

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CAD overall width	1.14 in (29 mm)		
CAD overall height	1.14 in (29 mm)		
CAD overall depth	1.30 in (33 mm)		
Net Weight	0.04 lb(US) (0.017 kg)		
Mechanical durability	5000000 cycles		
Station name	XALD 15 cut-outs XALK 25 cut-outs		
Electrical composition code	M5 2 single front mounting integral LED M6 2 single front mounting integral LED and transformer M10 2 single front mounting integral LED MF1 2 single front mounting integral LED MR1 2 single rear mounting integral LED		
Device presentation	Basic element		

Environment

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Protective treatment	TH		
Ambient air temperature for storage	-40158 °F (-4070 °C)		
Ambient air temperature for operation	-13158 °F (-2570 °C)		
Electrical shock protection class	Class II IEC 60536		
IP degree of protection	IP66 IEC 60529		
NEMA degree of protection	NEMA 13 NEMA 4X		
Resistance to high pressure washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m		
IK degree of protection	IK05 IEC 50102		
Standards	CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-5-5 EN/IEC 60947-5-4 EN/IEC 60947-1 JIS C8201-5-1 UL 508 JIS C8201-1		

Product certifications	LROS (Lloyds register of shipping)		
	BV		
	CSA		
	RINA		
	GL		
	UL Listed DNV		
Vibration resistance	5 gn 2500 Hz)IEC 60068-2-6		
Shock resistance	30 gn 18 ms) half sine wave acceleration IEC 60068-2-27		
	50 gn 11 ms) half sine wave acceleration IEC 60068-2-27		
Ordering and shipping details			
Package weight(Lbs)	0.60 oz (17.000 g)		
Packing Units			
Package 1 Height	1.65 in (4.200 cm)		
Package 1 width	1.30 in (3.300 cm)		
Package 1 Length	2.05 in (5.200 cm)		
0" 0 4 1 11"			
Offer Sustainability			
REACh free of SVHC	Yes		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
Toxic heavy metal free	Yes		
Mercury free	Yes		
RoHS exemption information	₽		

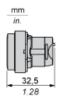
China RoHS Declaration

China RoHS Regulation

Product data sheet Dimensions Drawings

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Dimensions

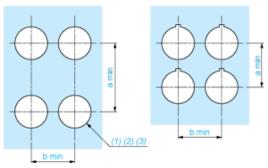




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Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

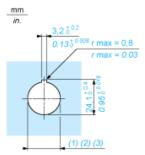
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- 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

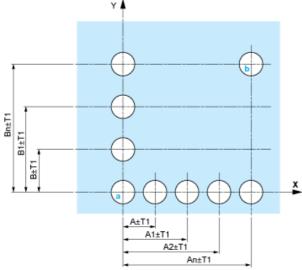
Detail of Lug Recess



- (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

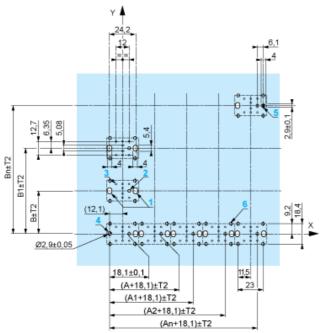
Panel Cut-outs (Viewed from Installer's Side)



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

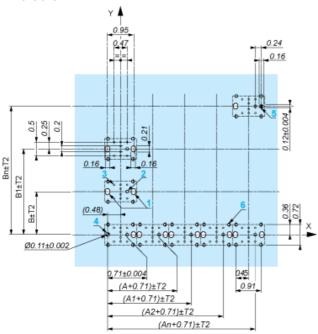
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

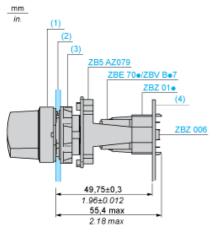
General Tolerances of the Panel and Printed Circuit Board

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).
 - 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•.

Product data sheet Technical Description

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



Electrical Composition Corresponding to Codes M6 and P2



Legend

Single contact



Double contact



Light block



Possible location

