

Product data sheet Characteristics

ZB5AH0683

blue flush illuminated pushbutton head Ø22 push-push for integral LED

EAN Code: 3389110068436



Main	
Range of product	Harmony XB5
Product or component type	Head for illuminated push-button
Product compatibility	Integral LED
Device short name	ZB5
Bezel material	Plastic
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	push-push
Operator profile	Blue flush, unmarked
Operator additional information	For insertion of legend

Complementary

M6 for <2 contacts using single blocks in front mounting with integral LED transformer M10 for <2 contacts using single blocks in front mounting with integral LEI MF1 for <2 contacts using single blocks in front mounting with integral LEI	CAD overall width	29 mm
Mechanical durability 5000000 cycles XALD 15 cut-outs XALK 25 cut-outs Electrical composition code M5 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 transformer M10 for <2 contacts using single blocks in front mounting with integral LEI MF1 for <2 contacts using single blocks in front mounting with integral LEI MR1 for <2 contacts using single blocks in rear mounting with integral LEI MR1 for <2 contacts using single blocks in rear mounting with integral LEI	CAD overall height	29 mm
Station name XALD 15 cut-outs XALK 25 cut-outs Electrical composition code M5 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 transformer M10 for <2 contacts using single blocks in front mounting with integral LEI MF1 for <2 contacts using single blocks in front mounting with integral LEI MR1 for <2 contacts using single blocks in rear mounting with integral LEI	CAD overall depth	30 mm
Electrical composition code M5 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 transformer M10 for <2 contacts using single blocks in front mounting with integral LEI MF1 for <2 contacts using single blocks in front mounting with integral LEI MR1 for <2 contacts using single blocks in rear mounting with integral LEI	Mechanical durability	5000000 cycles
M6 for <2 contacts using single blocks in front mounting with integral LED transformer M10 for <2 contacts using single blocks in front mounting with integral LEI MF1 for <2 contacts using single blocks in front mounting with integral LEI MR1 for <2 contacts using single blocks in rear mounting with integral LEI	Station name	
Device presentation Basic element	Electrical composition code	M5 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 M10 for <2 contacts using single blocks in front mounting with integral LED MF1 for <2 contacts using single blocks in front mounting with integral LED MR1 for <2 contacts using single blocks in rear mounting with integral LED
	Device presentation	Basic element

Environment

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

CSA[RETURN]BV[RETURN]LROS (Lloyds register of ship- ping)[RETURN]DNV[RETURN]UL listed[RETURN]GL
5 gn (f= 2500 Hz) conforming to IEC 60068-2-6
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

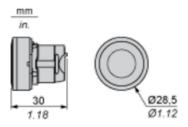
18 months

Warranty

Product data sheet Dimensions Drawings

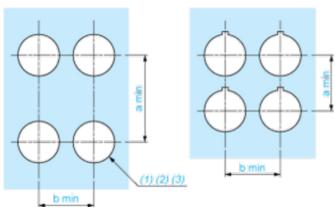
ZB5AH0683

Dimensions



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

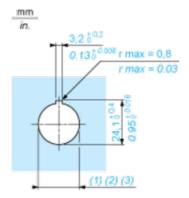
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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

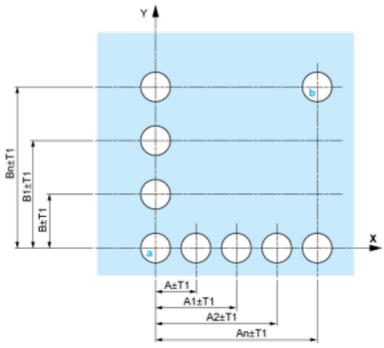
Detail of Lug Recess



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) 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)

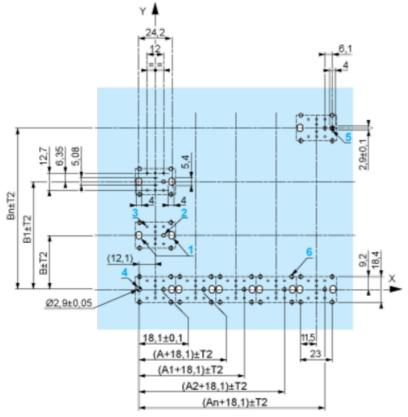


A: 30 mm min. / 1.18 in. min.

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

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

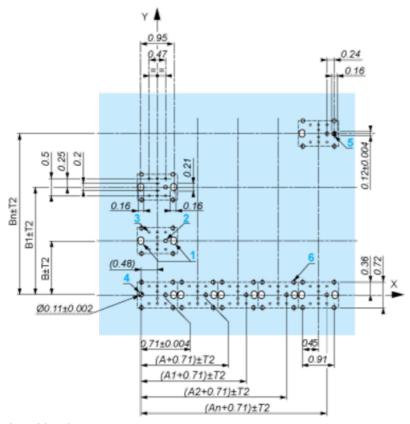
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

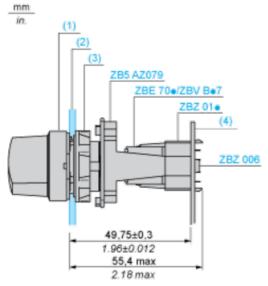
General Tolerances of the Panel and Printed Circuit Board

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:
 - $\circ \quad$ 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

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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01 \cdot .

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