



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	Round
Type of operator	spring return
Operator profile	Red projecting, O (white)

Complementary

CAD overall width	29 mm
CAD overall height	29 mm
CAD overall depth	33 mm
Net weight	0.019 kg
Mechanical durability	10000000 cycles
Station name	XALD 1...5 cut-outs XALK 2...5 cut-outs
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 SF1 for <3 contacts using single blocks in front mounting SR1 for <3 contacts using single blocks in rear mounting
Device presentation	Basic element

Environment

Protective treatment	TH
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-40...70 °C
Overvoltage category	Class II conforming to IEC 60536
IP degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K
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	IK03 conforming to IEC 50102
Standards	CSA C22.2 No 14 UL 508 EN/IEC 60947-5-1 JIS C8201-5-1 EN/IEC 60947-1 EN/IEC 60947-5-4 JIS C8201-1
Product certifications	BV LROS (Lloyds register of shipping) RINA DNV CSA GL 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= 2...500 Hz) conforming to IEC 60068-2-6

Packing Units

Package 1 Weight	0.018 kg
Package 1 Height	0.450 dm
Package 1 width	0.340 dm
Package 1 Length	0.540 dm

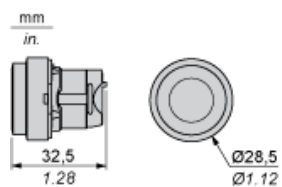
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

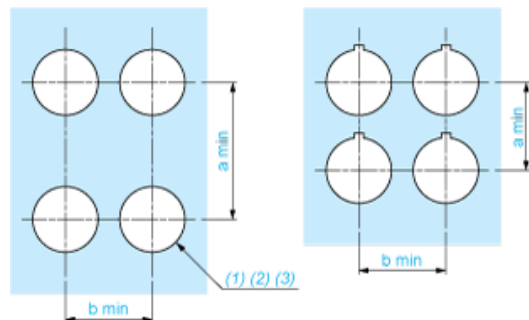
Warranty	18 months
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Dimensions



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

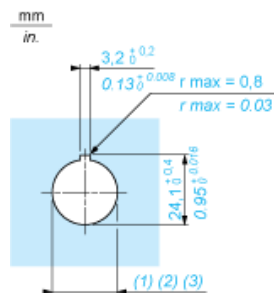
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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) $\varnothing 22.5$ mm recommended ($\varnothing 22.3 \text{ }_0^{+0.4}$) / $\varnothing 0.89$ in. recommended ($\varnothing 0.88 \text{ in. }_0^{+0.016}$)

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

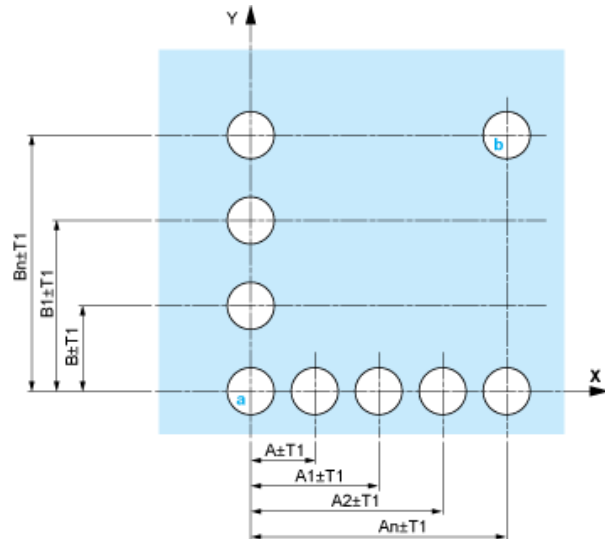
Detail of Lug Recess



- (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) $\varnothing 22.5$ mm recommended ($\varnothing 22.3 \text{ }_0^{+0.4}$) / $\varnothing 0.89$ in. recommended ($\varnothing 0.88 \text{ in. }_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

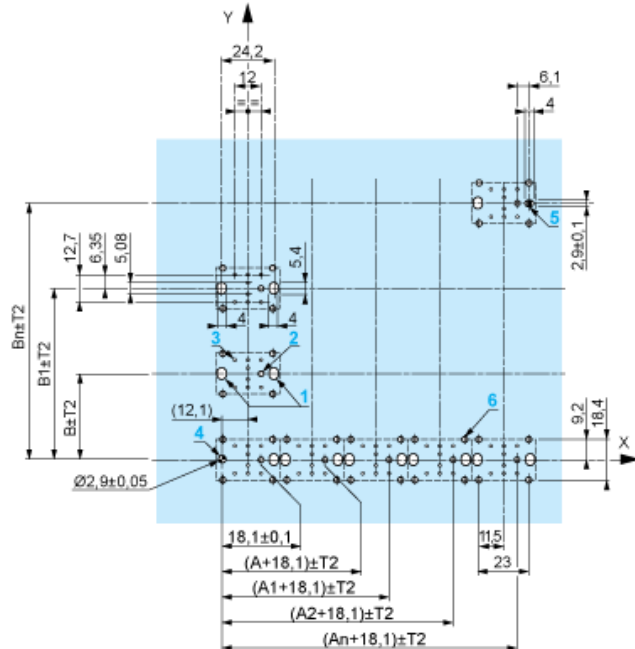
Panel Cut-outs (Viewed from Installer's Side)



- 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.

Technical drawing of a 10-hole plate (Figure 10.10). The drawing shows a rectangular plate with a central horizontal slot and a vertical slot. The plate is divided into four quadrants by dashed lines representing the center of gravity (CG) and the center of mass (CM). The dimensions are as follows:

- Overall width: 0.95
- Overall height: 0.5
- Distance from top edge to first hole center: 0.25
- Distance from first hole center to second hole center: 0.2
- Distance from second hole center to third hole center: 0.21
- Distance from third hole center to fourth hole center: 0.16
- Distance from fourth hole center to fifth hole center: 0.16
- Distance from fifth hole center to sixth hole center: 0.16
- Distance from sixth hole center to seventh hole center: 0.16
- Distance from seventh hole center to eighth hole center: 0.16
- Distance from eighth hole center to ninth hole center: 0.16
- Distance from ninth hole center to tenth hole center: 0.16
- Distance from tenth hole center to bottom edge: 0.21
- Distance from left edge to first hole center: 0.47
- Distance from first hole center to second hole center: 0.16
- Distance from second hole center to third hole center: 0.16
- Distance from third hole center to fourth hole center: 0.16
- Distance from fourth hole center to fifth hole center: 0.16
- Distance from fifth hole center to sixth hole center: 0.16
- Distance from sixth hole center to seventh hole center: 0.16
- Distance from seventh hole center to eighth hole center: 0.16
- Distance from eighth hole center to ninth hole center: 0.16
- Distance from ninth hole center to tenth hole center: 0.16
- Distance from tenth hole center to right edge: 0.16
- Distance from top edge to first hole center: 0.25
- Distance from first hole center to second hole center: 0.2
- Distance from second hole center to third hole center: 0.21
- Distance from third hole center to fourth hole center: 0.16
- Distance from fourth hole center to fifth hole center: 0.16
- Distance from fifth hole center to sixth hole center: 0.16
- Distance from sixth hole center to seventh hole center: 0.16
- Distance from seventh hole center to eighth hole center: 0.16
- Distance from eighth hole center to ninth hole center: 0.16
- Distance from ninth hole center to tenth hole center: 0.16
- Distance from tenth hole center to bottom edge: 0.21
- Distance from left edge to first hole center: 0.47
- Distance from first hole center to second hole center: 0.16
- Distance from second hole center to third hole center: 0.16
- Distance from third hole center to fourth hole center: 0.16
- Distance from fourth hole center to fifth hole center: 0.16
- Distance from fifth hole center to sixth hole center: 0.16
- Distance from sixth hole center to seventh hole center: 0.16
- Distance from seventh hole center to eighth hole center: 0.16
- Distance from eighth hole center to ninth hole center: 0.16
- Distance from ninth hole center to tenth hole center: 0.16
- Distance from tenth hole center to right edge: 0.16

B: 1.57 in. min.

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: $T1 + T2 = 0.3 \text{ mm max.}$

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm $\pm$ 0.1 / 0.88 in. $\pm$ 0.004
- Orientation of body/fixing collar ZB5AZ009: $\pm 2^{\circ}30'$ (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•).

Technical drawing of the ZBZ 006 assembly. The drawing shows a side view of the assembly with various components labeled. The dimensions are as follows:

- Overall length: 49.75 ± 0.3
- Distance from the front flange to the start of the main body: 1.96 ± 0.012
- Distance from the front flange to the end of the main body: 55.4 max
- Distance from the front flange to the end of the assembly: 2.18 max

Component labels and callouts:

- (1) Blue line indicating the front flange.
- (2) Blue line indicating the start of the main body.
- (3) Blue line indicating the end of the main body.
- ZB5 AZ079: Label for the main body component.
- ZBE 70●/ZBV B●7: Label for the main body component.
- ZBZ 01●: Label for the front flange component.
- (4) Blue line indicating the end of the assembly.
- ZBZ 006: Label for the entire assembly.

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Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole $\varnothing$ 2.4 mm $\pm$ 0.05 / 0.09 in. $\pm$ 0.002 for centring adapter ZBZ01•
- 3 8 $\times$ $\varnothing$ 1.2 mm / 0.05 in. holes
- 4 1 hole $\varnothing$ 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 $\varnothing$ 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

Dimensions An + 18.1 relate to the $\varnothing$ 2.4 mm $\pm$ 0.05 / 0.09 in. $\pm$ 0.002 holes for centring adapter ZBZ01•.

Electrical Composition Corresponding to Code C1



Electrical Composition Corresponding to Code C2

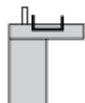


Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

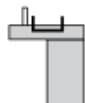


Electrical Composition Corresponding to Code C15

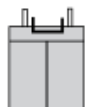
1 N/O



1 N/C



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



Legend

Single contact



Double contact



Light block



Possible location

