



Main

Commercial Status	Commercialised
Range of product	Harmony XB5
Product or component type	Head for non-illuminated pushbutton
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	Spring return
Operator profile	Green projecting unmarked
Operator additional information	Clear boot
Additional information	Not compatible with legend holder

Complementary

CAD overall width	30 mm
CAD overall height	30 mm
CAD overall depth	35 mm
Product weight	0.014 kg
Mechanical durability	5000000 cycles
Station name	XALK 2...5 cut-outs XALD 1...5 cut-outs
Electrical composition code	SR1 for ≤ 3 contacts using single blocks in rear mounting SF1 for ≤ 3 contacts using single blocks in front mounting C15 for 1 contacts using single blocks in front mounting C11 for ≤ 3 contacts using single blocks in front mounting C2 for ≤ 9 contacts using single and double blocks in front mounting C1 for ≤ 9 contacts using single blocks in front mounting

Environment

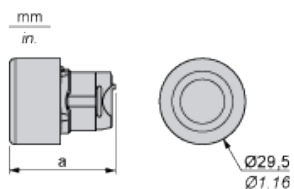
Protective treatment	TH
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...70 °C
Class of protection against electric shock	Class II conforming to IEC 60536
IP degree of protection	IP69K conforming to IEC 60529
NEMA degree of protection	NEMA 4X NEMA 13
Resistance 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	50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27 30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27
Vibration resistance	5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6

Contractual warranty

Period	18 months
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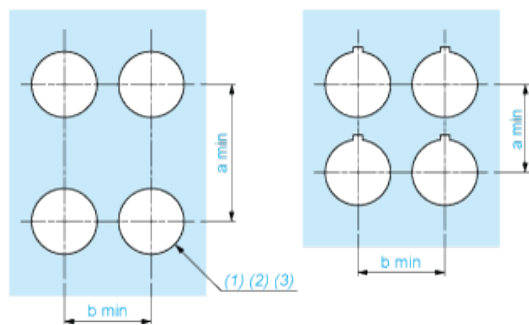
Dimensions



	a in mm	a in in.
ZB5AP••	36.5	1.44
ZB5AP•S	33	1.30
ZB5AP•83	32	1.26
ZB5AP•	35	1.38

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

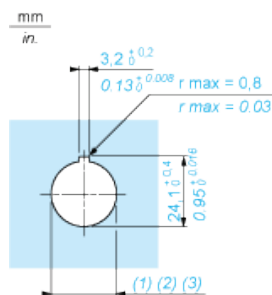
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

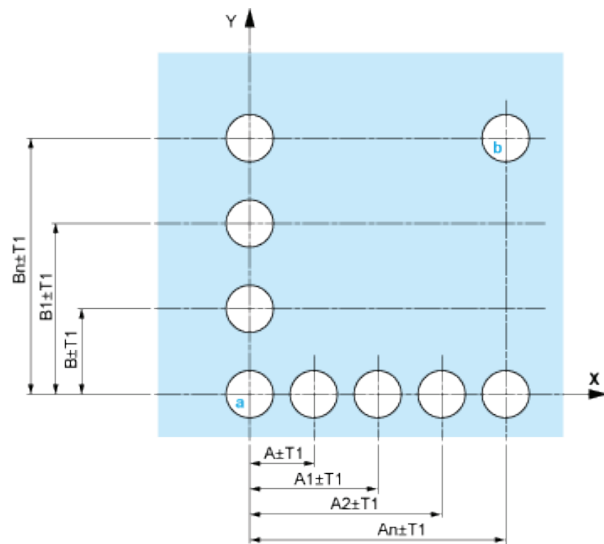
Detail of Lug Recess



- (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

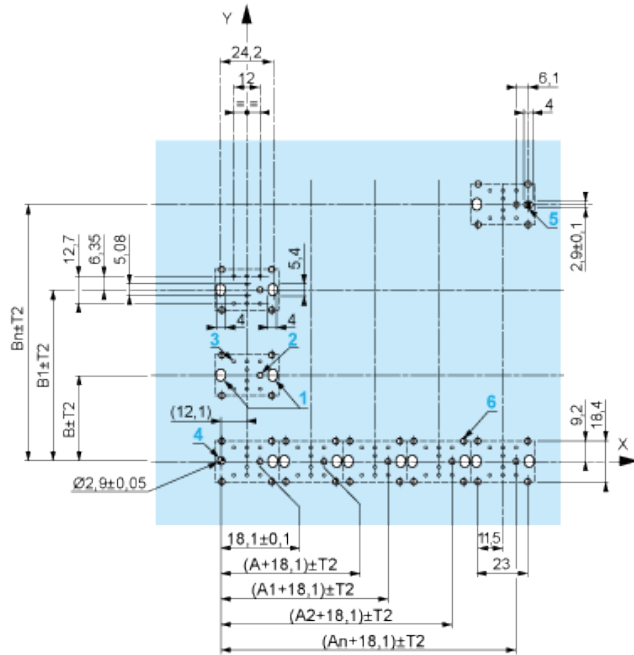
Panel Cut-outs (Viewed from Installer's Side)



- 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 rectangular plate with a grid of holes. The drawing shows a blue rectangular area representing the plate. A grid of holes is shown, with dimensions for hole diameters, hole positions, and plate dimensions. The drawing includes a coordinate system with X and Y axes. Dimensions are given in millimeters. The drawing is labeled 'Fig. 1' and 'Fig. 2'.

Key dimensions and labels:

- Plate width: $B \pm T/2$
- Plate height: $B \pm T/2$
- Hole diameter: $\varnothing 11 \pm 0.002$
- Hole positions (X and Y coordinates): $(A \pm 0.71) \pm T/2$, $(A1 \pm 0.71) \pm T/2$, $(A2 \pm 0.71) \pm T/2$, $(An \pm 0.71) \pm T/2$
- Hole diameter: $\varnothing 0.71 \pm 0.004$
- Hole positions (X and Y coordinates): (0.48) , (0.21) , (0.16) , (0.12 ± 0.004)
- Hole diameter: $\varnothing 0.24$
- Hole positions (X and Y coordinates): (0.16) , (0.25) , (0.2) , (0.47) , (0.95)
- Hole diameter: $\varnothing 0.16$
- Hole positions (X and Y coordinates): (0.36) , (0.72) , (0.45) , (0.91)

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

Electrical Composition Corresponding to Code C1



Electrical Composition Corresponding to Code C2

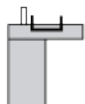


Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

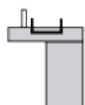


Electrical Composition Corresponding to Code C15

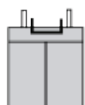
1 N/O



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

