



Main

Range of product	Harmony XB5
Product or component type	Head
Product destination	Emergency stop push-button
Device short name	ZB5
Bezel material	Plastic
Head type	Standard
Mounting diameter	0.87 in (22 mm)
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Trigger action and mechanical latching
Reset	Push-pull
Operator profile	Red mushroom Ø 30 mm unmarked

Complementary

CAD overall width	1.18 in (30 mm)
CAD overall height	1.18 in (30 mm)
CAD overall depth	2.2 in (56 mm)
Product weight	0.11 lb(US) (0.05 kg)
Mechanical durability	300000 cycles
Station name	XALD 1...5 cut-outs XALK 1...5 cut-outs
Electrical composition code	C15 1 contacts using single blocks in front mounting C15 1 contacts using single blocks in front mounting C11 for 3 contacts using single blocks in front mounting SF1 for 3 contacts using single blocks in front mounting C7 for 4 contacts using single blocks in front mounting C8 for 4 contacts using single and double blocks in front mounting C10 for 4 contacts using single and double blocks in front mounting SR1 for 3 contacts using single blocks in rear mounting

Environment

protective treatment	TH
ambient air temperature for storage	-40...158 °F (-40...70 °C)
ambient air temperature for operation	-40...158 °F (-40...70 °C)
overvoltage category	Class II conforming to IEC 60536
IP degree of protection	IP67 IP66 conforming to IEC 60529 IP69K IP69
NEMA degree of protection	NEMA 13 NEMA 4X
resistance to high pressure washer	1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m
IK degree of protection	IK03 conforming to IEC 50102
standards	EN/IEC 60204-1 EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 EN/ISO 13850 IEC 60364-5-53 JIS C 4520 UL 508

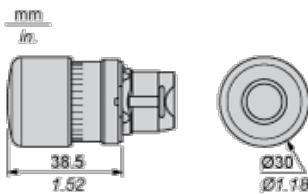
The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed
vibration resistance	5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6
shock resistance	30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27

Offer Sustainability

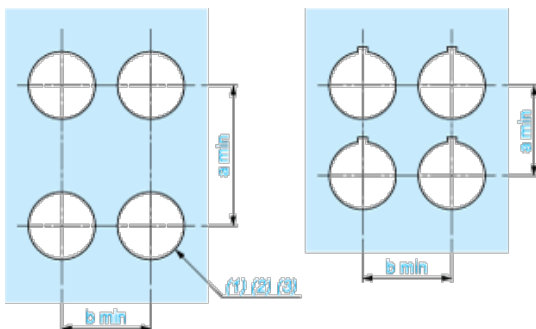
Green Premium product	Green Premium product
Compliant - since 0627 - Schneider Electric declaration of conformity	Compliant - since 0627 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Nickel compounds, which is known to the State of California to cause cancer, and	Nickel compounds, which is known to the State of California to cause cancer, and
Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

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 $^{+0.4}_0$) / Ø0.89 in. recommended (Ø0.88 in. $^{+0.016}_0$)

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

Technical drawing of a hole in a plate. The drawing shows a circular hole with a diameter of $\varnothing 10 \pm 0.05$ mm. The hole is located in a plate with a thickness of 10 ± 0.1 mm. The distance from the hole's center to the top edge is 20 ± 0.1 mm. The distance from the hole's center to the right edge is 10 ± 0.1 mm. The distance from the hole's center to the bottom edge is 10 ± 0.1 mm. The distance from the hole's center to the left edge is 10 ± 0.1 mm. The drawing also shows a dimension of 32 ± 0.2 mm for the total width of the plate. The drawing is labeled with (1), (2), and (3) at the bottom.

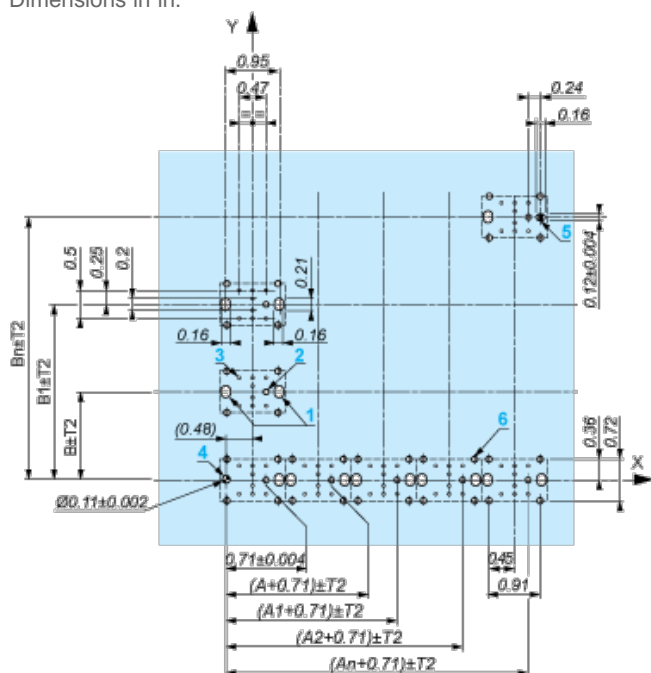
- ## Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

The diagram shows a rectangular plate with a grid of circular holes. The plate is light blue and has a coordinate system (X, Y) at the top center. There are three rows of holes. The top row has two holes, the middle row has three, and the bottom row has five. The holes are labeled 'a' and 'b'. Dimension lines indicate distances between holes and from the edges. The vertical dimensions are labeled $B_0 \pm T_1$, $B_1 \pm T_1$, and $B_2 \pm T_1$. The horizontal dimensions are labeled $A \pm T_1$, $A_1 \pm T_1$, $A_2 \pm T_1$, and $A_n \pm T_1$.

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

Technical drawing of a square plate with a grid of holes. The plate has a side length of 24.2. A central horizontal strip of holes is defined by dimensions 18.1 ± 0.1, (A1 + 18.1) ± T2, (A2 + 18.1) ± T2, and (An + 18.1) ± T2. The strip is 11.5 wide and 23 high. The holes are Ø2.9 ± 0.05. The plate has a 6.1 thick edge and a 4 thick corner. The drawing includes a coordinate system with X and Y axes.

Dimensions in in.

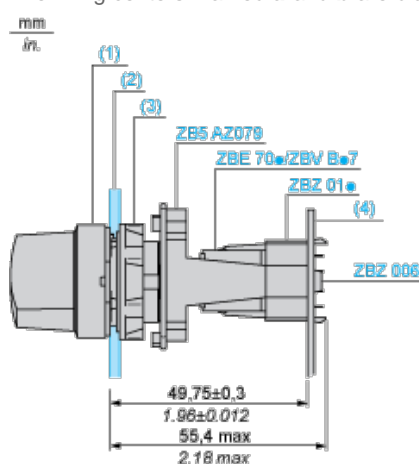


B: 1.57 in. min.

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: $T_1 + T_2 = 0.3 \text{ mm max.}$

- l Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- l Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- l Orientation of body/fixing collar ZB5AZ009: ± 2°30' (excluding cut-outs marked **a** and **b**).
- l Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- l Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
 - l every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - l 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

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$ for centring adapter ZBZ01•

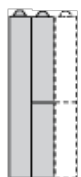
- | 3 8 × Ø 1.2 mm / 0.05 in. holes
- | 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked **a**)
- | 5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**)
- | 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

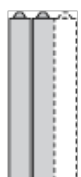
Electrical Composition Corresponding to Code C7



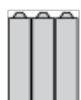
Electrical Compositions Corresponding to Code C8



Electrical Compositions Corresponding to Code C10

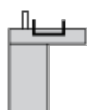


Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

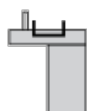


Electrical Composition Corresponding to Code C15

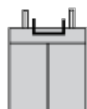
1 N/O



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

