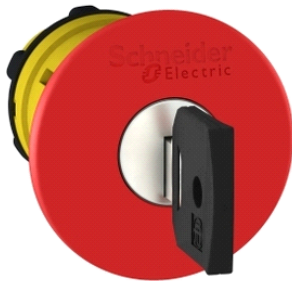


ZB5AS944K

red Ø40 Emergency stop, switching off head Ø22
trigger and latching key release



Main

Range of product	Harmony XB5
Product or component type	Head
Product destination	Emergency stop push-button
Device short name	ZB5
Bezel material	Dark grey plastic
Head type	Standard
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Trigger action and mechanical latching
Reset	Key release
Operator profile	Red mushroom Ø 40 mm unmarked
Type of keylock	Special key
Key withdrawal position	Center

Complementary

CAD overall width	40 mm
CAD overall height	40 mm
CAD overall depth	79 mm
Product weight	0.071 kg
Mechanical durability	300000 cycles
Station name	XALD 1 cut-out XALK 1 cut-out
Electrical composition code	C15 for 1 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 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...70 °C
ambient air temperature for operation	-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	7000000 Pa at 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

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.

EN/ISO 13850
IEC 60364-5-53
JIS C 4520
UL 508
GB 14048.5
CSA C22.2 No 14

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) 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

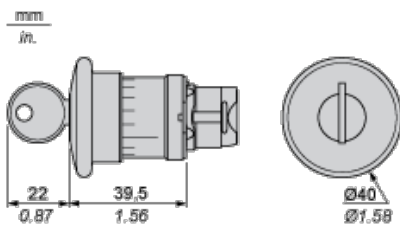
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

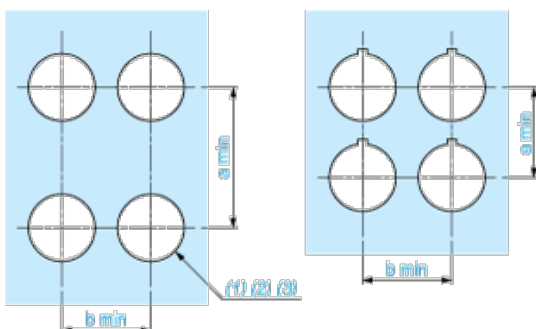
Warranty period	18 months 18 months
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Dimensions



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) 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 $\varnothing 10$ and a depth of 10. The hole is located in a plate with a thickness of 10. The drawing includes various dimensions and tolerances:

- Overall width: 32 ± 0.2
- Distance from left edge to hole center: 0.135 ± 0.005
- Distance from hole center to right edge: 0.135 ± 0.005
- Distance from hole center to bottom edge: 24.17 ± 0.4
- Distance from hole center to top edge: 0.95 ± 0.05
- Distance from hole center to bottom edge (alternative): 0.95 ± 0.05
- Distance from hole center to bottom edge (alternative): 0.95 ± 0.05

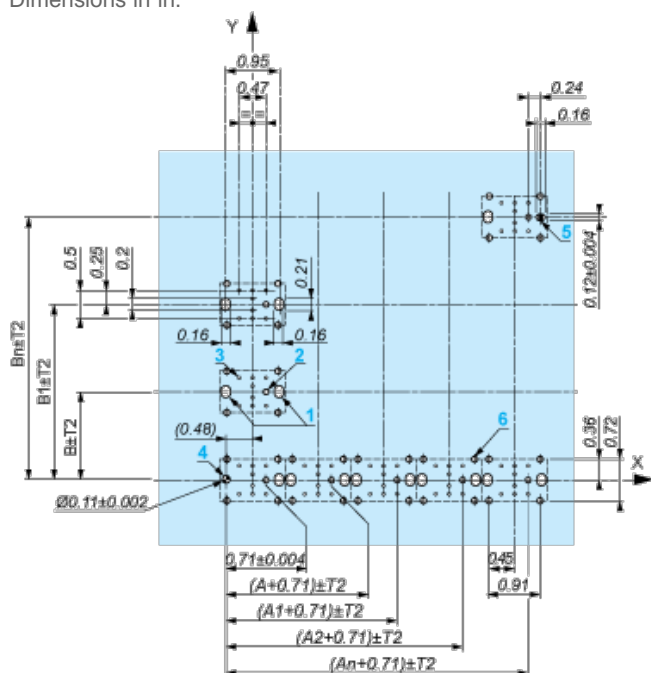
The drawing also includes a scale bar indicating 0, 10, and 20 mm.

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

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

[illegible]

Dimensions in in.

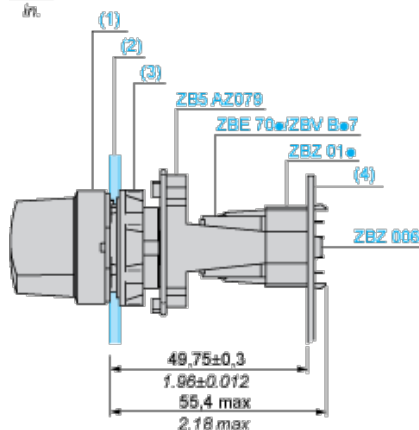


B: 1.57 in. min.

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

- l Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- l Cut-out diameter: 22.4 mm \pm 0.1 / 0.88 in. \pm 0.004
- l Orientation of body/fixing collar ZB5AZ009: \pm 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•).

$\frac{10000}{100}$
 100



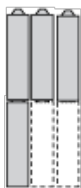
- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

- 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•

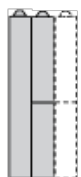
- | 3 8 × Ø 1.2 mm / 0.05 in. holes
- | 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked **a**)
- | 5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**)
- | 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

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

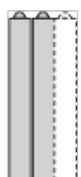
Electrical Composition Corresponding to Code C7



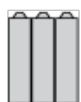
Electrical Compositions Corresponding to Code C8



Electrical Compositions Corresponding to Code C10

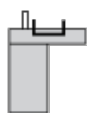


Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

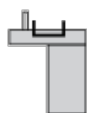


Electrical Composition Corresponding to Code C15

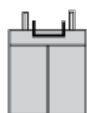
1 N/O



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

