ZB5AT4

red Ø40 Emergency stop pushbutton head Ø22 trigger and latching push-pull



Main	
Range of product	Harmony XB5
Product or component type	Head for emergency switching off pushbutton
Device short name	ZB5
Bezel material	Plastic
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round

Mechanical latching

Red mushroom Ø 40 mm unmarked

Push-pull

Complementary

CAD overall width	40 mm		
CAD overall height	40 mm		
CAD overall depth	56 mm		
Product weight	0.049 kg		
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m		
Mechanical durability	300000 cycles		

Type of operator

Operator profile

Reset

Environment

Protective treatment	TH				
Ambient air temperature for storage	-4070 °C				
Ambient air temperature for operation	-2570 °C				
Class of protection against electric shock	Class II conforming to IEC 60536				
IP degree of protection	IP66 conforming to IEC 60529				
NEMA degree of protection	NEMA 13 NEMA 4X				
IK degree of protection	IK03 conforming to IEC 50102				
Standards	CSA C22-2 No 14 EN/IEC 60947-5-5 JIS C 4520 UL 508 EN/IEC 60947-1 EN/IEC 60947-5-1 IEC 60364-5-53 EN/IEC 60947-5-4				
Product certifications	GL UL listed DNV (Det Norske Veritas) BV RINA LROS (Lloyds register of shipping) CSA				
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6				
Shock resistance	30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27 50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27				

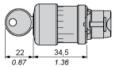
The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products 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 subsoliaries shall be responsible or liable for misuse of the information contained herein.

Dimensions of Mushroom Heads for Latching Pushbuttons and Emergency Switching Off, Mechanical Latching **Pushbuttons**

Key Release

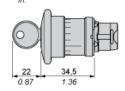
ZB5 AS72, ZB5 AS74





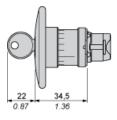


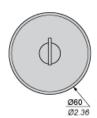
ZB5 AS12, ZB5 AS14





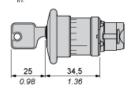
ZB5 AS22, ZB5 AS24





ZB5 AS14D

mm

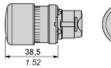




Push-Pull

ZB5 AT24, ZB5 AT44







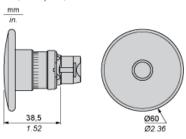
ZB5 AT2, ZB5 AT4





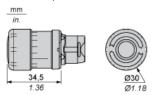


ZB5 AX2, ZB5 AX4

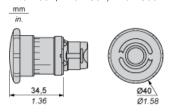


Turn to Release

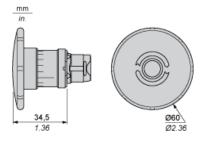
ZB5 AS42, ZB5 AS44



ZB5 AS52, ZB5 AS54, ZB5 AS55

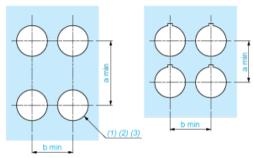


ZB5 AS62, ZB5 AS64



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

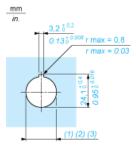
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 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

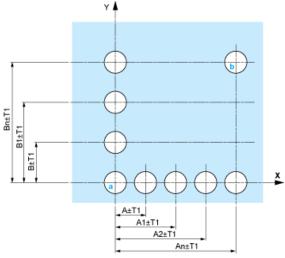
Detail of Lug Recess



- Diameter on finished panel or support (1)
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

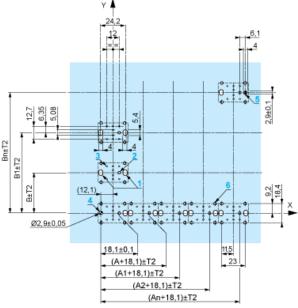
Panel Cut-outs (Viewed from Installer's Side)



A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

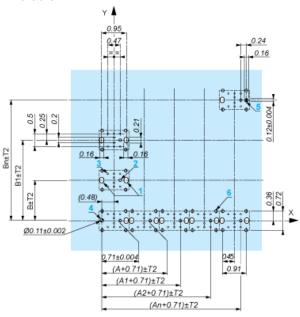
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min.

Dimensions in in.



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

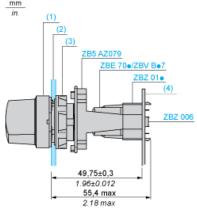
General Tolerances of the Panel and Printed Circuit Board

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 ZB4 BZ009: ± 2 30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
 - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o with each selector switch head (ZB5 AD•, ZB5 AJ•, ZB5 AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



- (1) Head ZB5 AD•
- (2) Panel
- (2) Nu
- (4) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 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 ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.