# ZB5AS74

# red Ø30 Emergency switching off pushbutton head Ø22 latching key release



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
Type of operator	Mechanical latching
Reset	Key release

Ronis 455

Center

Red mushroom Ø 30 mm unmarked

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CAD overall width	30 mm	
CAD overall height	30 mm	
CAD overall depth	79 mm	
Product weight	0.04 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m	
Mechanical durability	300000 cycles	
Main group	Switching off	
Group of product	Emerg.Swit. off key release	
Maximum of contact NO or NC	4	
Station name	XALD 15 cut-outs XALK 15 cut-outs	
Cap/Operator or lens colour	Red	
Marking	Unmarked	

Operator profile

Type of keylock

Key withdrawal position

#### **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 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 IEC 60364-5-53 JIS C 4520 UL 508 GB 14048.5

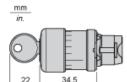
Product certifications	BV	
	CSA	
	DNV	
	GL	
	LROS (Lloyds register of shipping)	
	RINA	
	UL listed	
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6	
Shock resistance	30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27	
	50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27	
RoHS EUR status	Compliant	
RoHS EUR conformity date	0646	

## ZB5AS74

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

#### Key Release

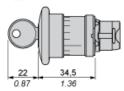
ZB5 AS72, ZB5 AS74





ZB5 AS12, ZB5 AS14

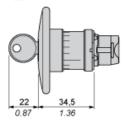


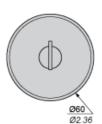




ZB5 AS22, ZB5 AS24

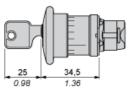
in.





ZB5 AS14D

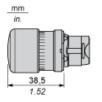






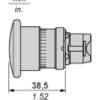
## Push-Pull

ZB5 AT24, ZB5 AT44



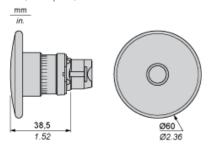


ZB5 AT2, ZB5 AT4



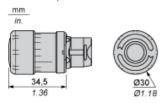


## ZB5 AX2, ZB5 AX4

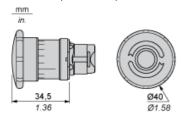


## Turn to Release

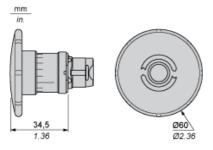
## ZB5 AS42, ZB5 AS44



## ZB5 AS52, ZB5 AS54, ZB5 AS55

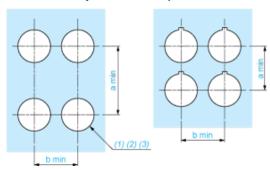


#### ZB5 AS62, ZB5 AS64



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

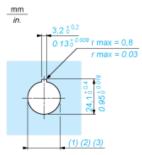
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- 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

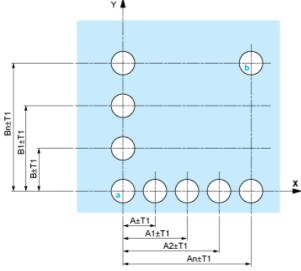
#### **Detail of Lug Recess**



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended.
- Ø22.5 mm recommended (Ø22.3  $_{0}$   $^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_{0}$   $^{+0.016}$ )

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

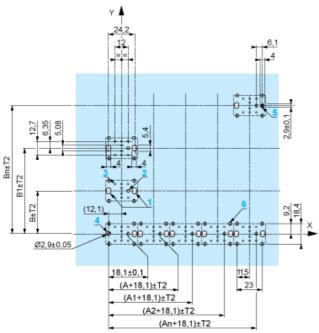


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

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

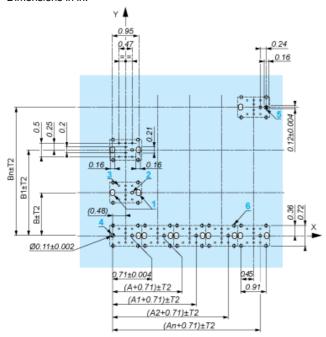
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

#### Dimensions in in.



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

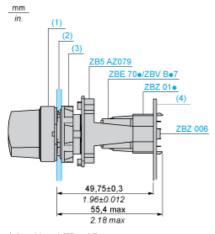
#### General Tolerances of the Panel and Printed Circuit Board

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:
  - $\circ~$  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) Nut
- (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•.