Product data sheet Characteristics

ZB5AS834

red Ø30 Emergency stop pushbutton head Ø22 trigger and latching turn release



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

| Type of operator | Trigger action and mechanical latching | | |
|------------------|--|--|--|
| Reset | Turn to release | | |
| Operator profile | Red mushroom Ø 30 mm unmarked | | |

Complementary

| CAD overall width | 30 mm | |
|------------------------------------|-------------------------------------|--|
| CAD overall height | 30 mm | |
| CAD overall depth | 57 mm | |
| Product weight | 0.042 kg | |
| Resistance to high pressure washer | 7000000 Pa at 55 °C,distance: 0.1 m | |
| Mechanical durability | 300000 cycles | |
| Main group | E-stop | |
| Group of product | Emergency stop turn to 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 | |

Environment

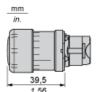
| Protective treatment | TH | | | |
|--|--|--|--|--|
| Ambient air temperature for storage | -4070 °C | | | |
| Ambient air temperature for operation | -2570 °C | | | |
| Class of protection against electric shock | Class II conforming to IEC 60536 | | | |
| IP degree of protection | IP66 conforming 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 60204-1 EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 EN/IEC 60947-5-5 UIS 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 | 0810 | | |

Dimensions of Mushroom Heads for Emergency Stop, Trigger Action and Mechanical Latching Pushbuttons

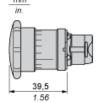
Turn to Release

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ZB5 AS844

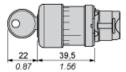




Key Release

ZB5 AS934

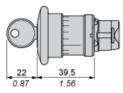






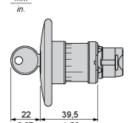
ZB5 AS944

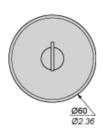




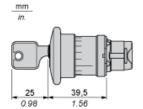


ZB5 AS964



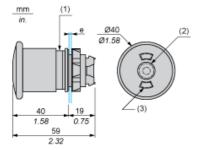


ZB5 AS944D





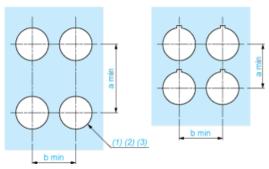
Push-Pull with Pilot Light and Mechanical State Indicator ZB5 AT8643M



- e panel thickness: 1 to 6 mm / 0.04 to 0.24 in.
 (1) 360° "red/green" mechanical indicator
 (2) Pilot light
 (3) "Red/green" mechanical indicator

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

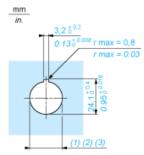
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- 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 |

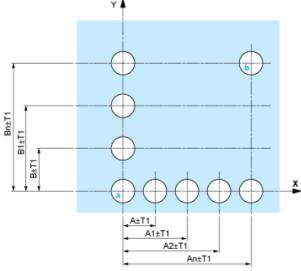
Detail of Lug Recess



- (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)

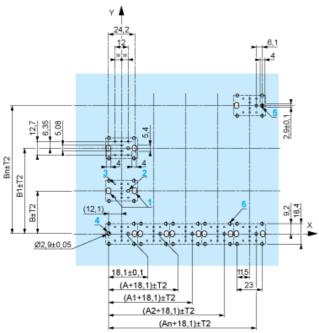


A: 30 mm min. / 1.18 in. min.

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

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

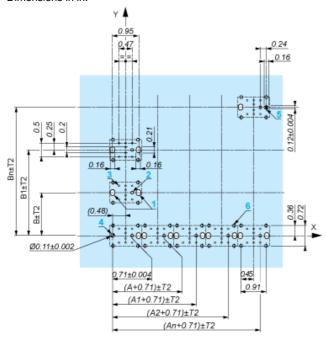
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

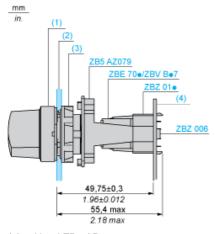
General Tolerances of the Panel and Printed Circuit Board

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•.