# Product datasheet
## Characteristics

# ZB5AS834
red Ø30 Emergency stop, switching off head Ø22 trigger and latching turn release

## Main

| | |
|---|---|
| Range of product | Harmony XB5 |
| Product or component type | Head |
| Product destination | Emergency stop push-button |
| 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 | 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 |
| Mechanical durability | 300000 cycles |
| Station name | XALD 1...5 cut-outs<br>XALK 1...5 cut-outs |
| Electrical composition code | C11 for <= 3 contacts using single blocks in front mounting<br>C15 for 1 contacts using single blocks in front mounting<br>SF1 for <= 3 contacts using single blocks in front mounting<br>SR1 for <= 3 contacts using single blocks in rear mounting<br>C7 for <= 4 contacts using single blocks in front mounting<br>C8 for <= 4 contacts using single and double blocks in front mounting<br>C10 for <= 4 contacts using single and double blocks in front 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 | IP69<br>IP67<br>IP66 conforming to IEC 60529<br>IP69K |
| NEMA degree of protection | NEMA 13<br>NEMA 4X |
| Resistance to high pressure washer | At 55 °C,distance: 0.1 m |
| IK degree of protection | IK03 conforming to IEC 50102 |
| Standards | GB 14048.5<br>IEC 60364-5-53<br>EN/IEC 60947-5-4<br>UL 508<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>JIS C 4520<br>EN/IEC 60947-5-5<br>EN/ISO 13850<br>EN/IEC 60947-1<br>EN/IEC 60204-1 |
| Product certifications | DNV<br>LROS (Lloyds register of shipping)<br>UL listed<br>BV<br>RINA<br>CSA<br>GL |
| 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<br>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 0810 - Schneider Electric declaration of conformity<br>Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold<br>Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

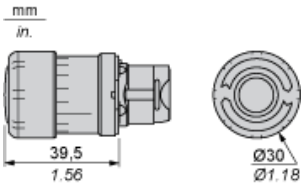
## Contractual warranty

| | |
|---|---|
| Warranty period | 18 months |

# Product datasheet
## Dimensions Drawings

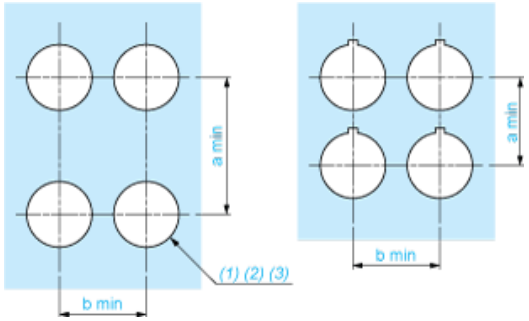
ZB5AS834

## Dimensions



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

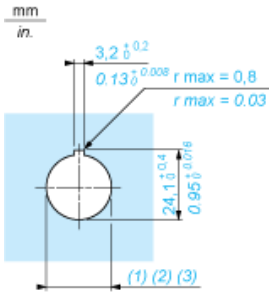
### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board




(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 $_{0}^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 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 |

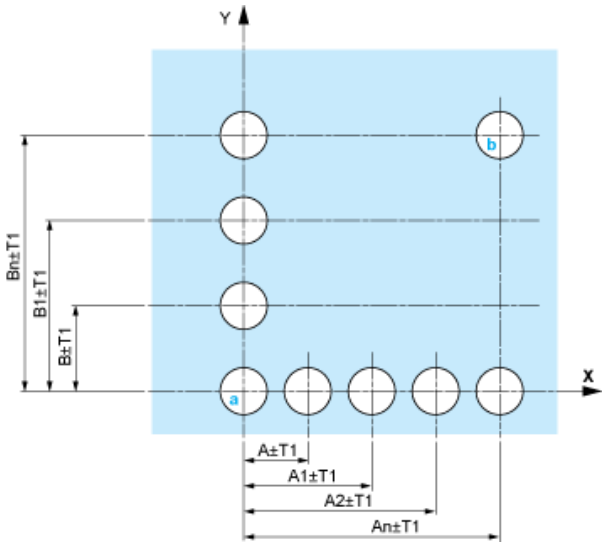
### Detail of Lug Recess




(1) Diameter on finished panel or support
(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 $_{0}^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_{0}^{+0.016}$)

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

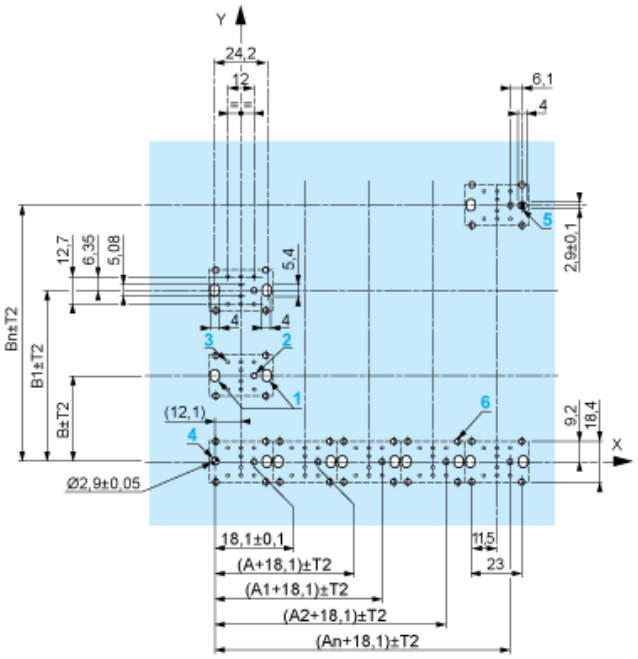
### Panel Cut-outs (Viewed from Installer's Side)




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

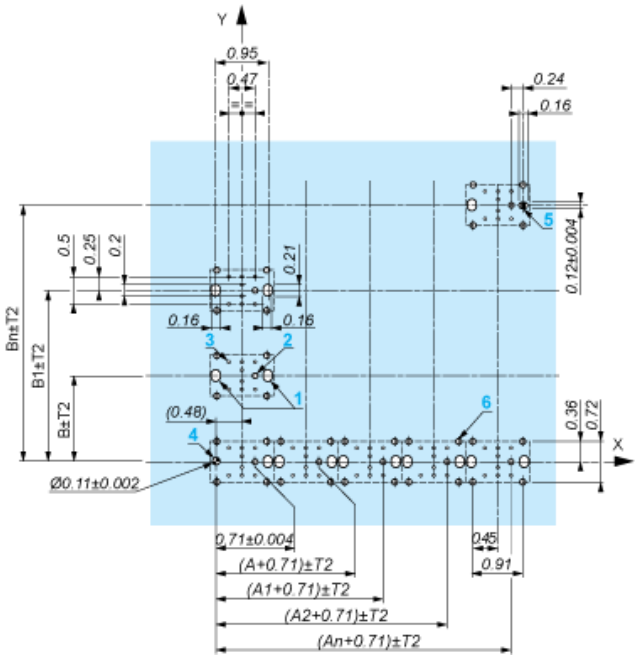
### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm




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

Dimensions in in.




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

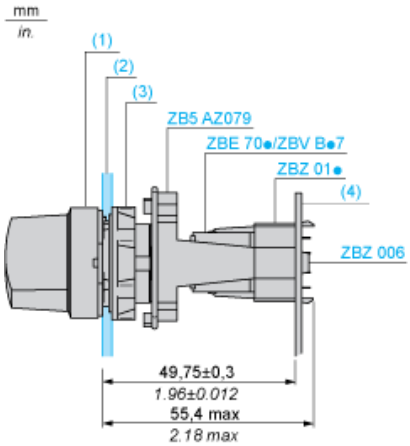
## General Tolerances of the Panel and Printed Circuit Board

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 ZB5AZ009: ± 2°30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
  - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - 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.



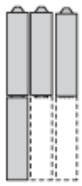

(1) Head ZB5AD•
(2) Panel
(2) Nut
(4) Printed circuit board

## Mounting of Adapter (Socket) ZBZ01•

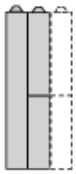
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the 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•.

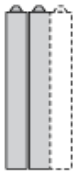
## Electrical Composition Corresponding to Code C7



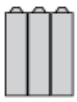
## Electrical Compositions Corresponding to Code C8



## Electrical Compositions Corresponding to Code C10

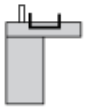


## Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

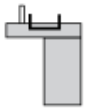


## Electrical Composition Corresponding to Code C15

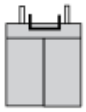
1 N/O



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