Specifications



selector switch head ZB5AJ2 sold by 100

ZB5AJ2TQ

() Discontinued on: Dec 19, 2019

(!) Discontinued

Main

| Range Of Product | Harmony XB5 | | | |
|---------------------------------|--------------------------|--|--|--|
| Product Or Component Type | Head for selector switch | | | |
| Device Short Name | ZB5 | | | |
| Bezel Material | Dark grey plastic | | | |
| Mounting Diameter | 22 mm | | | |
| Sale Per Indivisible Quantity | 10 | | | |
| Shape Of Signaling Unit Head | Round | | | |
| Type Of Operator | stay put | | | |
| Operator Profile | Black long handle | | | |
| Operator Additional Information | Non padlockable | | | |
| Operator Position Information | 2 positions 90° | | | |

Complementary

| • | | | |
|-----------------------------|---|--|--|
| Cad Overall Width | 29 mm | | |
| Cad Overall Height | 38 mm | | |
| Cad Overall Depth | 46 mm | | |
| Mechanical Durability | 1000000 cycles | | |
| Station Name | XALD 15 cut-outs | | |
| Electrical Composition Code | C3 for <6 contacts using single blocks in front mounting C4 for <6 contacts using single and double blocks in front mounting C5 for <5 contacts using single blocks in front mounting C6 for <5 contacts using single and double blocks in front mounting C7 for <4 contacts using single blocks in front mounting C8 for <4 contacts using single blocks in front mounting C11 for <3 contacts using single blocks in front mounting C15 for <1 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting SR1 for <3 contacts using single blocks in rear mounting | | |

Environment

| Protective Treatment | тн | |
|--|----------------------------------|--|
| Ambient Air Temperature For Storage | -4070 °C | |
| Ambient Air Temperature For Operation | -4070 °C | |
| Overvoltage Category | Class II conforming to IEC 60536 | |

| Ip Degree Of Protection | IP67 conforming to IEC 60529 IP69 conforming to IEC 60529 IP69K | | | |
|---|--|--|--|--|
| Nema Degree Of Protection | NEMA 13 NEMA 4X | | | |
| Resistance To High Pressure 7000000 Pa at 55 °C, distance : 0.1 m Washer | | | | |
| Ik Degree Of Protection | IK06 conforming to IEC 50102 | | | |
| Product Certifications | DNV LROS (Lloyds register of shipping) CSA BV GL UL listed | | | |
| Vibration Resistance | 5 gn (f= 2500 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 | | | |

Contractual warranty

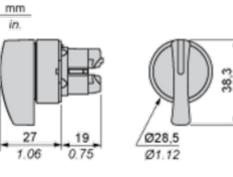
Warranty

18 months

1.51

Dimensions Drawings

Dimensions



Mounting and Clearance

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

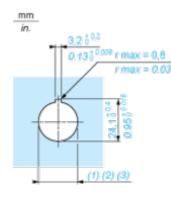


(1) Diameter on finished panel or support

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. (3) \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$)

| | | | | 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 |

Detail of Lug Recess



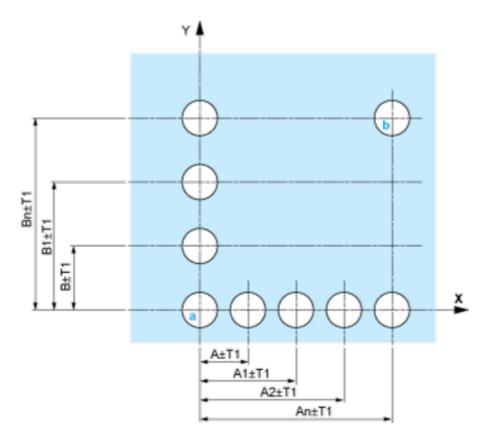
(1) Diameter on finished panel or support

- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$)

ZB5AJ2TQ

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

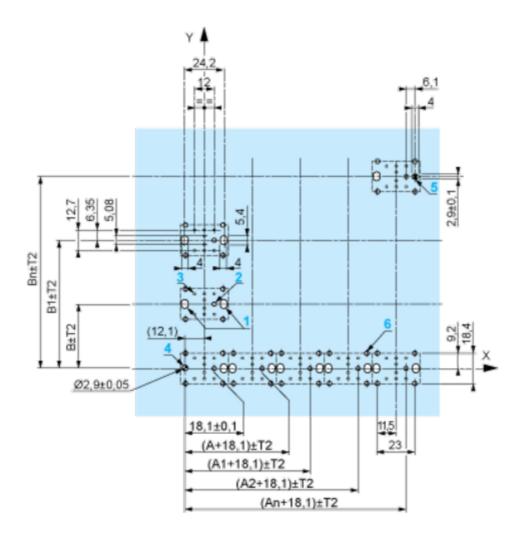
Panel Cut-outs (Viewed from Installer's Side)



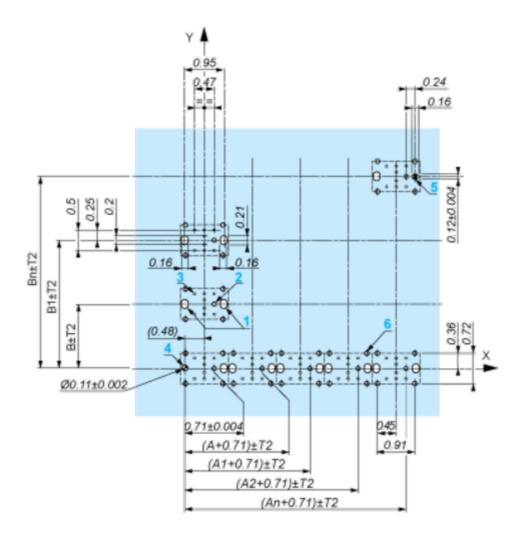
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

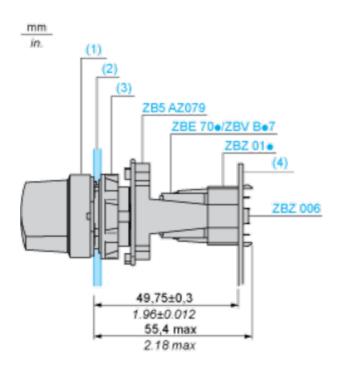
General Tolerances of the Panel and Printed Circuit Board

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:
 - $_{\circ}$ every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o 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.



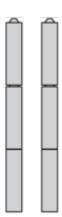
- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

Mounting of Adapter (Socket) ZBZ01•

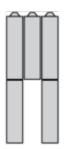
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- **3** 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

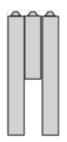
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

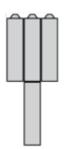
Technical Description

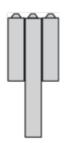












Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



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



Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



| | Position | Тор | | | | |
|----------|----------|--------|------------------|------------------|------------------|--|
| Push | | Bottom | \bigtriangleup | \bigtriangleup | \bigtriangleup | |
| | Location | | Left | Centre | Right | |
| | State | | 0 | 0 | 0 | |
| Contacts | N/O | | open | open | open | |
| | N/C | | closed | closed | closed | |

Position 45°



| | | Тор | | | |
|----------|----------|--------|--------|--------|--------|
| Push | Position | Bottom | | | |
| | Location | | Left | Centre | Right |
| | State | | 1 | 1 | 1 |
| Contacts | N/O | | closed | closed | closed |
| | N/C | | open | open | open |