

Product data sheet Characteristics

ZB5AG4C

selector switch head Ø22 2-position stay put 5 multichips





Main

| Range of product | Harmony XB5 |
|-------------------------------|------------------------------|
| Product or component type | Head for key selector switch |
| Device short name | ZB5 |
| Bezel material | Dark grey plastic |
| Mounting diameter | 22.5 mm |
| Head type | Standard |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Round |
| Type of operator | Stay put |
| Operator profile | Black key switch |
| Operator position information | 2 positions 90° |
| Type of keylock | Special key |
| Key withdrawal position | In any position |
| | |

Complementary

| CAD overall width | 29 mm |
|-----------------------------|---|
| CAD overall height | 29 mm |
| CAD overall depth | 72 mm |
| Mechanical durability | 1000000 cycles |
| Electrical composition code | 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 and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting C3 for <6 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting SR1 for <1 contacts using single blocks in rear mounting C15 for <1 contacts using single blocks in front mounting |

Environment

| TH | | | |
|--|--|--|--|
| -4070 °C | | | |
| -2570 °C | | | |
| Class II conforming to IEC 60536 | | | |
| IP65 conforming to IEC 60529 | | | |
| 7000000 Pa at 55 °C, distance : 0.1 m | | | |
| IK06 conforming to IEC 50102 | | | |
| GB/T 14048.1 GB/T 14048.5 IEC 60947-5-1 IEC 60947-1 | | | |
| CCC | | | |
| | | | |

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 subsidiaries shall be responsible or liable for misuse of the information contained herein.

| Vibration resistance | 5 gn (f= 2500 Hz) conforming to IEC 60068-2-6 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 | | |
|----------------------|--|--|--|
| Shock resistance | | | |
| | 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 | | |

Packing Units

| Unit Type of Package 1 | PCE | |
|------------------------------|--------|--|
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 5.4 cm | |
| Package 1 Width | 8.8 cm | |
| Package 1 Length | 3.4 cm | |
| Package 1 Weight | 51.0 g | |
| | | |

Offer Sustainability

| Sustainable offer status | Green Premium product | | |
|----------------------------|--|--|--|
| REACh Regulation | ☑ REACh Declaration | | |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) | | |
| Mercury free | Yes | | |
| China RoHS Regulation | ☑ China RoHS Declaration | | |
| RoHS exemption information | €Yes | | |
| Environmental Disclosure | Product Environmental Profile | | |
| Circularity Profile | End Of Life Information | | |

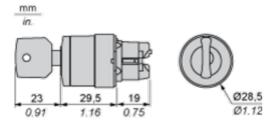
Contractual warranty

| · |
|---|
|---|

Product data sheet Dimensions Drawings

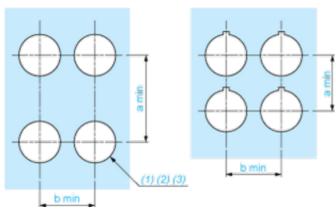
ZB5AG4C

Dimensions



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

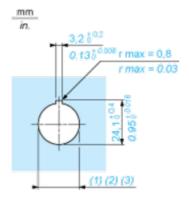
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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 |

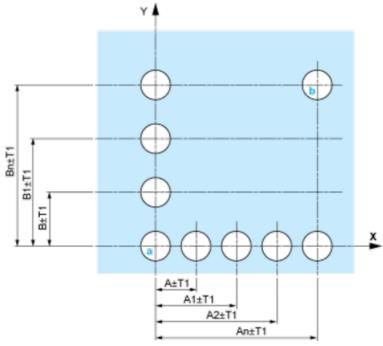
Detail of Lug Recess



- (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)

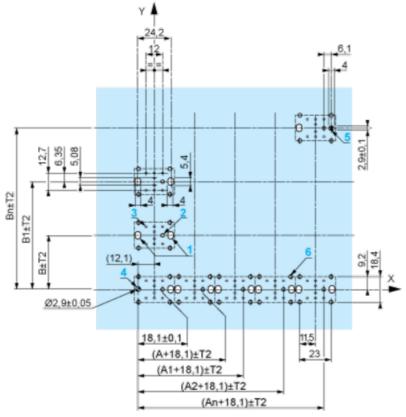


A: 30 mm min. / 1.18 in. min.

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

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

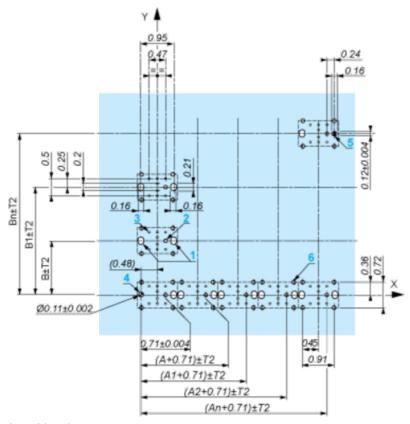
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

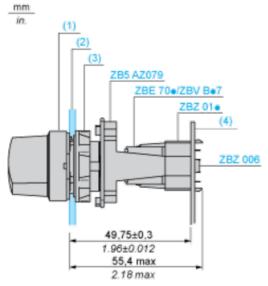
General Tolerances of the Panel and Printed Circuit Board

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:
 - $\circ \quad$ 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.



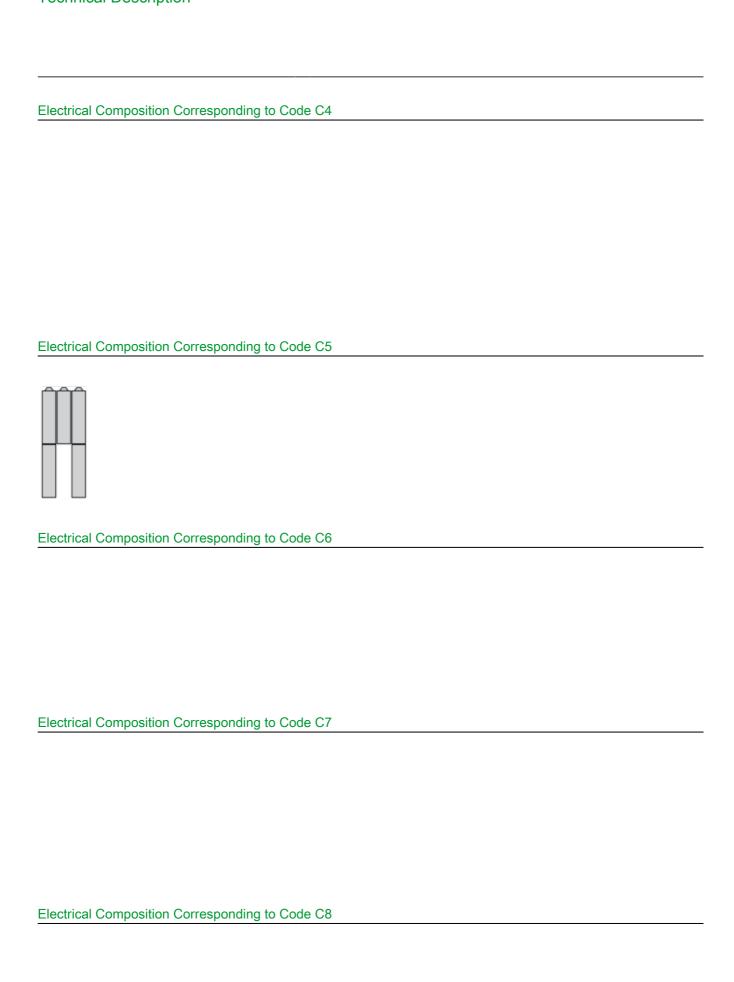
- (1) Head ZB5AD•
- (2) Panel
- (2) Nut

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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01•.

ZB5AG4C



| Electrical Composition Corresponding to Code C3 |
|--|
| |
| Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1 |
| |
| Legend |
| Single contact |
| Double contact |
| Light block |
| Possible location |



Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



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

Position 45°



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