Product datasheet Characteristics

ZB5AA7121

Double-headed push button head, plastic, Ø22, 1 white flush marked I + 1 black flush marked O





Main

| | | ā | r |
|-------------------------------|------------------------------------|-----------|---|
| Range of product | Harmony XB5 | - CO | |
| Product or component type | Head for double-headed push-button | | |
| Device short name | ZB5 | | |
| Bezel material | Dark grey plastic | The | 5 |
| Mounting diameter | 22 mm | | |
| Head type | Standard | | 5 |
| Sale per indivisible quantity | 1 | | , |
| Shape of signaling unit head | Rectangular | etin etin | 3 |
| Type of operator | spring return | | 5 |
| Operator profile | 2 flush push-buttons | | - |
| Operators description | White "I" - black "O" | | 2 |
| | | | ٠ |

Complementary

| when white caps when green, red or black caps |
|--|
| (white) (black) |
| es |
| ut |
| acts using single blocks in front mounting acts using single and double blocks in front mounting ntacts using single blocks in front mounting ntacts using single blocks in front mounting ntacts using single blocks in rear mounting |
| 2 cor |

| Device presentation | Basic element |
|---------------------|---------------|
|---------------------|---------------|

Environment

| Protective treatment | TH |
|---------------------------------------|---|
| Ambient air temperature for storage | -4070 °C |
| Ambient air temperature for operation | -2570 °C |
| Electrical shock protection class | Class II conforming to IEC 60536 |
| IP degree of protection | IP66 conforming to IEC 60529 IP69K conforming to IEC 60529 |
| NEMA degree of protection | NEMA 13 NEMA 4X |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m |
| IK degree of protection | IK03 conforming to IEC 50102 |
| Standards | JIS C8201-5-1 CSA C22.2 No 14 EN/IEC 60947-5-4 EN/IEC 60947-5-1 EN/IEC 60947-1 UL 508 JIS C8201-1 |
| Product certifications | DNV LROS (Lloyds register of shipping) GL RINA CSA BV 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 |

Packing Units

| . Gorang Grinte | |
|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 25 g |
| Package 1 Height | 3.5 cm |
| Package 1 width | 5.5 cm |
| Package 1 Length | 5.5 cm |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 100 |
| Package 2 Weight | 2.773 kg |
| Package 2 Height | 15 cm |
| Package 2 width | 30 cm |
| Package 2 Length | 40 cm |
| | |

Offer Sustainability

| Offer Sustainability | | |
|----------------------------|--|--|
| Sustainable offer status | Green Premium product | |
| REACh Regulation | REACh Declaration | |
| REACh free of SVHC | Yes | |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration | |
| Toxic heavy metal free | Yes | |
| Mercury free | Yes | |
| RoHS exemption information | Yes | |
| China RoHS Regulation | China RoHS declaration | |
| Environmental Disclosure | Product Environmental Profile | |
| Circularity Profile | End of Life Information | |
| | | |

Contractual warranty

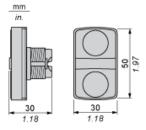
Warranty 18 months

Product datasheet Dimensions Drawings

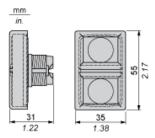
ZB5AA7121

Dimensions

Without Boot



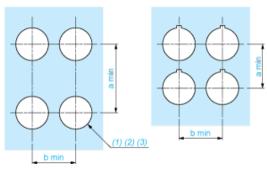
With Boot ZBA708



ZB5AA7121

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

| 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 |

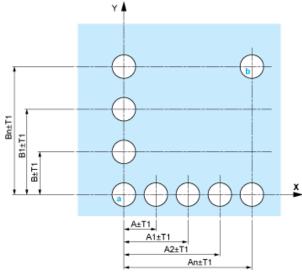
Detail of Lug Recess



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 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})
- (2) (3)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

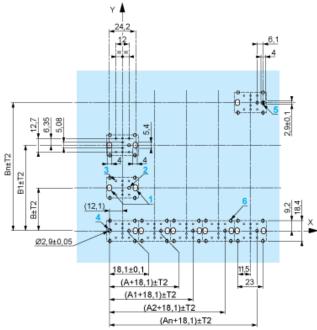
Panel Cut-outs (Viewed from Installer's Side)



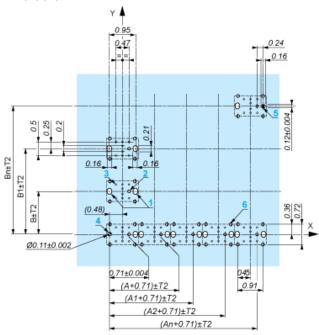
A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

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.

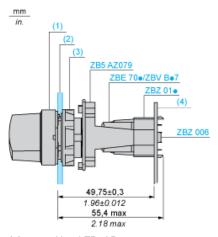
General Tolerances of the Panel and Printed Circuit Board

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:
 - o 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) (2) Panel
- 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•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm \pm 0.05 / 0.11 in. \pm 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•.

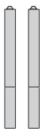
ZB5AA7121

Electrical Composition Corresponding to Code C3



ZB5AA7121

Electrical Composition Corresponding to Code C4



ZB5AA7121

Electrical Composition Corresponding to Codes C14, SF2 and SR2



ZB5AA7121

Legend

Single contact



Double contact



Light block



Possible location

