ZB5AA46

Head for non illuminated push button, Harmony XB5, red recessed, 22mm, spring return, unmarked





Main

| Range of product | Harmony XB5 |
|---------------------------------|--------------------------------------|
| Product or component type | Head for non-illuminated push-button |
| Device short name | ZB5 |
| Bezel material | Dark grey plastic |
| Mounting diameter | 22 mm |
| Head type | Standard |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Round |
| Type of operator | Spring return |
| Operator profile | Red recessed, unmarked |
| Operator additional information | High guard |

Complementary

| Device presentation | Basic element |
|-----------------------------|---|
| | SR1 for <3 contacts using single blocks in rear mounting |
| | SF1 for <3 contacts using single blocks in front mounting |
| | C15 for <1 contacts using single blocks in front mounting |
| | C11 for <3 contacts using single blocks in front mounting |
| Electrical composition toda | C2 for <9 contacts using single and double blocks in front mounting |
| Electrical composition code | C1 for <9 contacts using single blocks in front mounting |
| | XALK 25 cut-outs |
| Station name | XALD 15 cut-outs |
| Mechanical durability | 10000000 cycles |
| Net weight | 0.02 kg |
| CAD overall depth | 31 mm |
| CAD overall height | 29 mm |
| CAD overall width | 29 mm |

Environment

| Protective treatment | TH | |
|---------------------------------------|---|--|
| 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 | IP66 conforming to IEC 60529 IP67 IP69 IP69K | |
| 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 | |

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 interested for a set of or determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| Standards | EN/IEC 60947-5-1 |
|------------------------------|---|
| | CSA C22.2 No 14 EN/IEC 60947-5-4 |
| | JIS C8201-5-1 |
| | UL 508 EN/IEC 60947-1 |
| | JIS C8201-1 |
| Product certifications | BV[RETURN]LROS (Lloyds register of shipping) [RETURN]CSA[RETURN]DNV[RETURN]GL[RETURN]UL listed |
| 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 |
| Vibration resistance | 5 gn (f= 2500 Hz) conforming to IEC 60068-2-6 |
| Packing Units | |
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.33 cm |
| Package 1 Width | 3.56 cm |
| Package 1 Length | 4.57 cm |
| Package 1 Weight | 0.02 kg |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 100 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 2.155 kg |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 200 |
| Package 3 Height | 30 cm |
| Package 3 Width | 30 cm |
| Package 3 Length | 40 cm |
| Package 3 Weight | 4.113 kg |
| 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) |
| Mercury free | Yes |
| China RoHS Regulation | ᢨ China RoHS Declaration |
| RoHS exemption information | €Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| Contractual warranty | |
| Contractant warranty | 18 months |

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

Product data sheet Dimensions Drawings

ZB5AA46

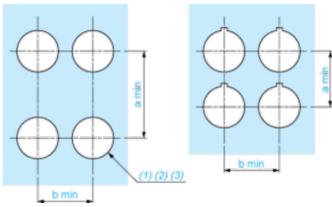
Dimensions





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

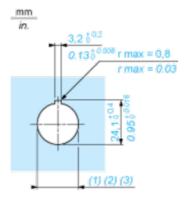
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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•.

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| Electrical Composition Corresponding to Code C1 |
|--|
| |
| Electrical Composition Corresponding to Code C2 |
| |
| 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 | | |
| | | |
| | | |