

Product data sheet Characteristics

ZB5AH013

Head for illuminated push button, Harmony XB5, dark grey plastic, white flush, 22mm, universal LED, push-push, unmarked

Important message: A change in appearance may be noted on the product but does not affect its use in terms of function and safety. This makes it compatible with our Universal LED blocks

Local distributor code: 237222541 EAN Code: 3389110137682



Main

| Range of product | Harmony XB5 |
|-------------------------------|----------------------------------|
| Product or component type | Head for illuminated push-button |
| Product compatibility | Universal LED |
| 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 | push-push |
| Operator profile | White flush, unmarked |

Complementary

| Device presentation | MR1 for <2 contacts using single blocks in rear mounting with integral LED Basic element | | |
|-----------------------------|---|--|--|
| | MF1 for <2 contacts using single blocks in front mounting with integral LED | | |
| | M10 for <2 contacts using single blocks in front mounting with integral LED | | |
| | transformer | | |
| Liectrical composition code | M6 for <2 contacts using single blocks in front mounting with integral LED and | | |
| Electrical composition code | M5 for <2 contacts using single blocks in front mounting with integral LED | | |
| | XALK 25 cut-outs | | |
| Station name | XALD 15 cut-outs | | |
| Mechanical durability | 5000000 cycles | | |
| Net weight | 0.017 kg | | |
| CAD overall depth | 30 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 | -2570 °C | | |
| Electrical shock protection class | Class II conforming to IEC 60536 | | |
| IP degree of protection | IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 IP69 conforming to IEC 60529 IP69K conforming to ISO 20653 | | |
| 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 | IK05 conforming to IEC 50102 | |
|-------------------------|---|--|
| Standards | UL 508 | |
| | IEC 60947-1 | |
| | IEC 60947-5-1 | |
| | JIS C8201-5-1 | |
| | IEC 60947-5-4 | |
| | IEC 60947-5-5 | |
| | CSA C22.2 No 14 | |
| | JIS C8201-1 | |
| Product certifications | UL listed[RETURN]LROS (Lloyds register of ship- | |
| | ping)[RETURN]CSA[RETURN]DNV[RETURN]BV[RETURN]GL | |
| 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

| Unit Type of Package 1 | PCE | |
|------------------------------|---------|--|
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 4.7 cm | |
| Package 1 Width | 3.5 cm | |
| Package 1 Length | 5.4 cm | |
| Package 1 Weight | 18.0 g | |
| Unit Type of Package 2 | S03 | |
| Number of Units in Package 2 | 150 | |
| Package 2 Height | 30 cm | |
| Package 2 Width | 30 cm | |
| Package 2 Length | 40 cm | |
| Package 2 Weight | 3.17 kg | |

Offer Sustainability

| REACh Declaration | | |
|--|--|--|
| Yes | | |
| Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration | | |
| China RoHS Declaration | | |
| Product Environmental Profile | | |
| End Of Life Information | | |
| | | |

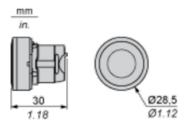
Contractual warranty

| Warranty 18 mo | nths |
|----------------|------|
|----------------|------|

Product data sheet Dimensions Drawings

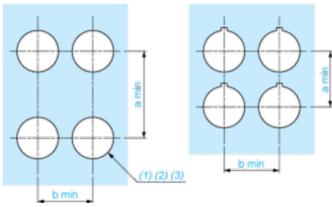
ZB5AH013

Dimensions



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

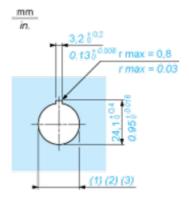
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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•.

Product data sheet Technical Description

ZB5AH013

Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2 Electrical Composition Corresponding to Codes M6 and P2 Legend Single contact Double contact Light block Possible location