

Product data sheet Characteristics

ZB5AW943

red flush illuminated pushbutton head Ø22 spring return for integral LED





Main

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

Complementary

| CAD overall width | 29 mm | | |
|------------------------------------|--|--|--|
| CAD overall height | 29 mm | | |
| CAD overall depth | 30 mm | | |
| Net weight | 0.016 kg | | |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m | | |
| Mechanical durability | 10000000 cycles | | |
| Main group | Illum push-button | | |
| Group of product | Flush push with ring illum LED | | |
| Station name | XALD 15 cut-outs XALK 25 cut-outs | | |
| Cap/operator or lens colour | Red | | |
| Marking | Unmarked | | |
| Electrical composition code | M1 for <6 contacts using single blocks in front mounting with integral LED M2 for <6 contacts using single and double blocks in front mounting with integral LED M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED MF1 for <2 contacts using single blocks in front mounting with integral LED MR1 for <2 contacts using single blocks in rear mounting with integral LED | | |
| Device presentation | Basic sub-assemblies | | |

Environment

| Protective treatment | TC | | |
|---------------------------------------|--------------------------------------|--------|--|
| Ambient air temperature for storage | -4070 °C | 070 °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 | | |

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| NEMA degree of protection | NEMA 13 NEMA 4X | | |
|---------------------------|---|--|--|
| IK degree of protection | IK05 conforming to EN 50102 | | |
| Standards | JIS C8201-5-1 UL 508 EN/IEC 60947-5-4 EN/IEC 60947-1 CSA C22.2 No 14 GB 14048.5 EN/IEC 60947-5-1 JIS C8201-1 | | |
| Product certifications | BV[RETURN]CSA[RETURN]DNV[RETURN]GL[RETURN]LROS (Lloyds register of shipping)[RETURN]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

| Unit Type of Package 1 | PCE |
|------------------------------|----------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.3 cm |
| Package 1 Width | 3.4 cm |
| Package 1 Length | 5.2 cm |
| Package 1 Weight | 16.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 100 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 2.055 kg |

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 | ₽ |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

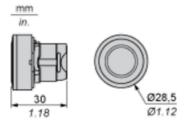
Contractual warranty

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

Product data sheet Dimensions Drawings

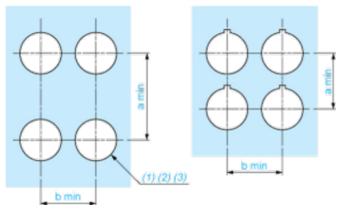
ZB5AW943

Dimensions



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

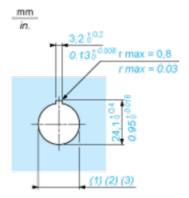
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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.



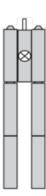
- (1) Head ZB5AD•
- (2) Panel
- (2) Nut

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 \cdot .

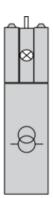
Electrical Composition Corresponding to Codes M1 and M7



Electrical Composition Corresponding to Codes M2 and M8



Electrical Composition Corresponding to Codes M6 and P2



Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



| Legend |
|----------------|
| Single contact |
| |

Double contact

Light block

Possible location

