



Main

| | |
|---------------------------------|----------------------|
| Range of product | Harmony XB5 |
| Product or component type | Head for pilot light |
| Product compatibility | Integral LED |
| Device short name | ZB5 |
| Bezel material | Plastic |
| Mounting diameter | 22 mm |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Round |
| Cap/Operator or lens colour | Green |
| Operator additional information | With plain lens |

Complementary

| | |
|-----------------------------|---|
| CAD overall width | 29 mm |
| CAD overall height | 29 mm |
| CAD overall depth | 31 mm |
| Product weight | 0.017 kg |
| Station name | XALD 1...5 cut-outs XALK 2...5 cut-outs |
| Electrical composition code | P1 in front mounting with integral LED P2 in front mounting with integral LED and transformer PF1 in front mounting with integral LED PR1 in rear mounting with integral LED |

Environment

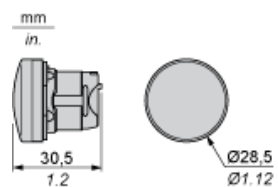
| | |
|---------------------------------------|--------------------|
| Protective treatment | TH |
| Ambient air temperature for storage | -40...70 °C |
| Ambient air temperature for operation | -40...70 °C |
| Overvoltage category | Class II IEC 60536 |

| | |
|------------------------------------|--|
| IP degree of protection | IP67 IP66 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 | IK05 conforming to IEC 50102 |
| Standards | EN/IEC 60947-5-5 UL 508 EN/IEC 60947-1 EN/IEC 60947-5-4 JIS C 4520 EN/IEC 60947-5-1 CSA C22.2 No 14 |
| Vibration resistance | 5 gn (f = 2...500 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 |

Contractual warranty

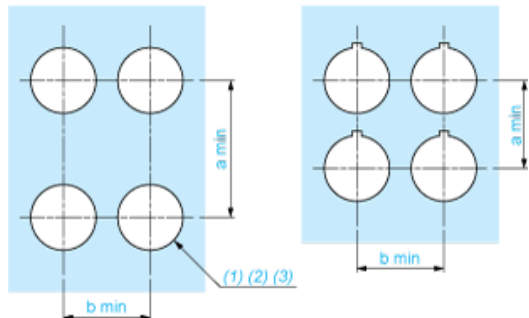
| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Dimensions



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

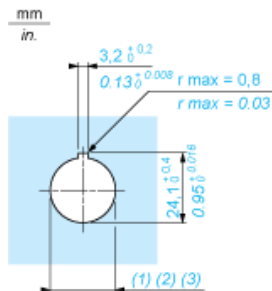
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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) $\varnothing 22.5$ mm recommended ($\varnothing 22.3 \text{ }_0^{+0.4}$) / $\varnothing 0.89$ in. recommended ($\varnothing 0.88 \text{ in. }_0^{+0.016}$)

| 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) $\varnothing 22.5$ mm recommended ($\varnothing 22.3 \text{ }_0^{+0.4}$) / $\varnothing 0.89$ in. recommended ($\varnothing 0.88 \text{ in. }_0^{+0.016}$)

B: 1.57 in. min.

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: $T1 + T2 = 0.3 \text{ mm max.}$

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm \pm 0.1 / 0.88 in. \pm 0.004
- Orientation of body/fixing collar ZB5AZ009: $\pm 2^{\circ}30'$ (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:
 - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

Technical drawing of the ZBZ 006 assembly. The drawing shows a side view of the assembly with various components labeled. The dimensions are as follows:

- Overall length: 49.75 ± 0.3
- Distance from the front flange to the start of the main body: 1.96 ± 0.012
- Distance from the front flange to the end of the main body: 55.4 max
- Distance from the front flange to the end of the assembly: 2.18 max

Component labels and callouts:

- (1) Blue line indicating the front flange.
- (2) Blue line indicating the start of the main body.
- (3) Blue line indicating the end of the main body.
- ZB5 AZ079: Label for the main body component.
- ZBE 70●/ZBV B●7: Label for the main body component.
- ZBZ 01●: Label for the front flange component.
- (4) Blue line indicating the end of the assembly.
- ZBZ 006: Label for the entire assembly.

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Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole \varnothing 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ01•
- 3 8 \times \varnothing 1.2 mm / 0.05 in. holes
- 4 1 hole \varnothing 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 \varnothing 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

Dimensions An + 18.1 relate to the \varnothing 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01•.

Electrical Composition Corresponding to Codes P1, P3, PF1, PR1 and PF2

Light block



Electrical Composition Corresponding to Codes M6 and P2



Legend

Single contact



Double contact



Light block



Possible location

