

## ZB4BV053

orange pilot light head Ø22 with plain lens for integral LED



### Main

|                                 |                       |
|---------------------------------|-----------------------|
| Range of product                | Harmony XB4           |
| Product or component type       | Head for pilot light  |
| Product compatibility           | Integral LED          |
| Device short name               | ZB4                   |
| Bezel material                  | Chromium plated metal |
| Mounting diameter               | 22 mm                 |
| Sale per indivisible quantity   | 1                     |
| Shape of signaling unit head    | Round                 |
| Cap/operator or lens colour     | Orange                |
| Operator additional information | With plain lens       |

### Complementary

|                                    |  |
|------------------------------------|--|
| CAD overall width                  | 29 mm  |
| CAD overall height                 | 29 mm  |
| CAD overall depth                  | 30 mm  |
| Product weight                     | 0.026 kg   |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance: 0.1 m   |
| Electrical composition code        | P1 in front mounting with integral LED<br>P2 in front mounting with integral LED and transformer |
| Main group                         | Pilot light  |
| Group of product                   | Lens fitted integral LED   |
| Cap/operator or lens colour        | Orange   |
| Compatibility code                 | ZB4  |

### Environment

|                                       |  |
|---------------------------------------|--|
| protective treatment                  | TH   |
| ambient air temperature for storage   | -40...70 °C  |
| ambient air temperature for operation | -40...70 °C  |
| electrical shock protection class     | Class I conforming to IEC 60536  |
| overvoltage category                  | Class I conforming to IEC 60536  |
| IP degree of protection               | IP67<br>IP66 conforming to IEC 60529<br>IP69K<br>IP69  |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X   |
| IK degree of protection               | IK06 conforming to IEC 50102   |
| standards                             | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-5<br>JIS C 4520<br>UL 508<br>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<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |

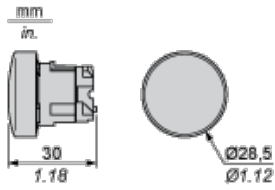
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Contractual warranty

Warranty period

18 months

Dimensions

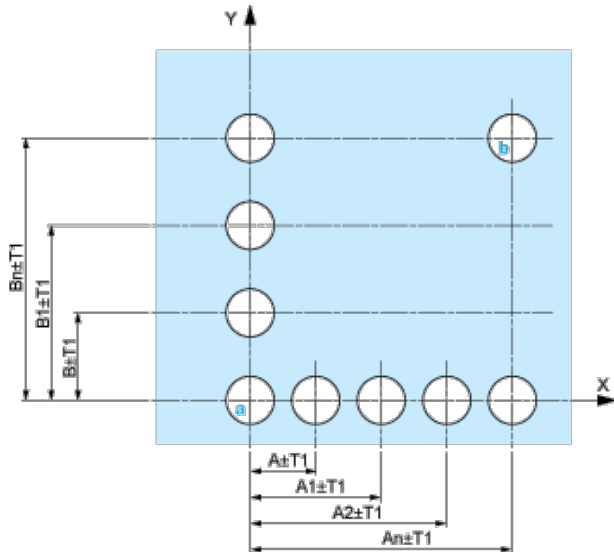


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board   | Connection by Faston Connectors |
|---|---------------------------------|
|   |                                 |
| <p>(1) Diameter on finished panel or support</p> <p>(2) 40 mm min. / 1.57 in. min.</p> <p>(3) 30 mm min. / 1.18 in. min.</p> <p>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <sup>+0.4</sup> / 0.88 in. <sub>0</sub><sup>+0.016</sup>)</p> <p>(5) 45 mm min. / 1.78 in. min.</p> <p>(6) 32 mm min. / 1.26 in. min.</p> |                                 |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

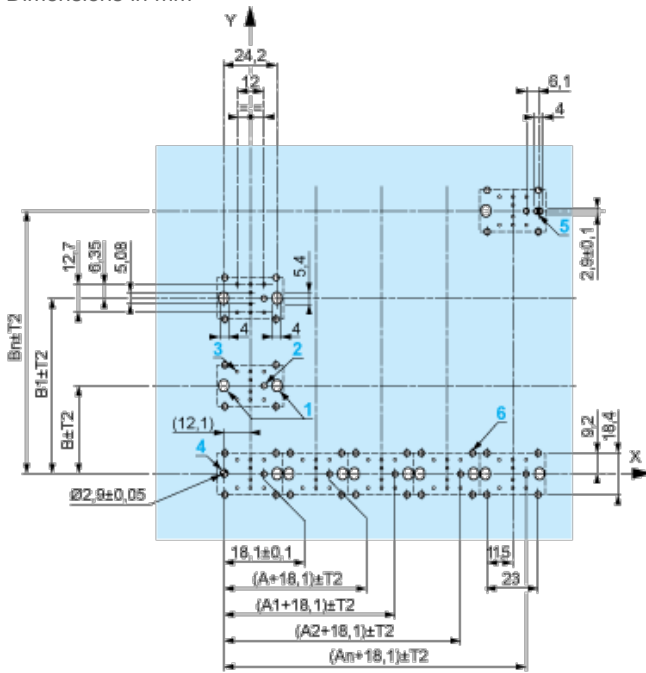


A: 30 mm min. / 1.18 in. min.

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  $\pm$  0.1 / 0.88 in.  $\pm$  0.004
- ┆ Orientation of body/fixing collar ZB4 BZ009:  $\pm$  2°30' (excluding cut-outs marked **a** and **b**).
- ┆ Tightening torque of screws ZBZ 006: 0.6 N.m (5.3 lbf.in) max.
- ┆ Allow for one ZB4 BZ079 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 (ZB4 BD\*, ZB4 BJ\*, ZB4 BG\*).

The fixing centers marked **a** and **b** are diagonally opposed and must align with those marked 4 and 5.



- (1) Panel
- (2) Printed circuit board

#### Mounting of Adapter (Socket) ZBZ 01•

- | 1 2 elongated holes for ZBZ 006 screw access
- | 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  for centring adapter ZBZ 01•
- | 3 8  $\times \varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$  holes
- | 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$ , 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  $\varnothing 2.4 \text{ mm} / 0.09 \text{ in.}$  for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  holes for centring adapter ZBZ 01•.

#### 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

