

# Product data sheet

Specifications



Harmony, 22mm Push Button, pilot light head, green, with plain lens, for BA9s bulb

ZB4BV03

Product availability : Stock - Normally stocked in distribution facility

## Main

|                                 |                       |
|---------------------------------|-----------------------|
| Range of Product                | Harmony XB4           |
| Product or Component Type       | Head for pilot light  |
| Product Compatibility           | BA 9s                 |
| Device short name               | ZB4                   |
| Bezel material                  | Chromium plated metal |
| Mounting diameter               | 0.87 in (22 mm)       |
| Sale per indivisible quantity   | 1                     |
| Head type                       | Standard              |
| Shape of signaling unit head    | Round                 |
| Cap/Operator or lens colour     | Green                 |
| Operator additional information | With plain lens       |

## Complementary

|                                    |                                                                    |
|------------------------------------|--------------------------------------------------------------------|
| CAD overall width                  | 1.14 in (29 mm)                                                    |
| CAD overall height                 | 1.14 in (29 mm)                                                    |
| CAD overall depth                  | 1.22 in (31 mm)                                                    |
| Product Weight                     | 0.06 lb(US) (0.027 kg)                                             |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m                      |
| Electrical composition code        | P3 front mounting BA 9s<br>P4 front mounting BA 9s and transformer |
| Device presentation                | Basic element                                                      |

## Environment

|                                       |                            |
|---------------------------------------|----------------------------|
| Protective treatment                  | TH                         |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C) |
| Ambient Air Temperature for Operation | -40...131 °F (-40...55 °C) |
| Overvoltage category                  | Class I IEC 60536          |
| IP degree of protection               | IP66 IEC 60529             |

Web: <https://www.bolenscontrol.com/> - Phone: (800) 658-5241 - Email: [sales@bolenscontrol.com](mailto:sales@bolenscontrol.com)

|                           |                                                                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                           | IP67<br>IP69<br>IP69K                                                                                                                   |
| NEMA degree of protection | NEMA 13<br>NEMA 4X                                                                                                                      |
| IK degree of protection   | IK06 IEC 50102                                                                                                                          |
| Standards                 | JIS C8201-5-1<br>EN/IEC 60947-5-4<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>EN/IEC 60947-1<br>UL 508<br>EN/IEC 60947-5-5<br>JIS C8201-1 |
| Vibration resistance      | 5 gn 2...500 Hz)IEC 60068-2-6                                                                                                           |
| Shock resistance          | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27<br>50 gn 11 ms) half sine wave acceleration IEC 60068-2-27                      |

Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22468-PUSHBUTTONS,22MM(METAL) NEW |
| Discount Schedule     | CS2                               |
| GTIN                  | 3389110889505                     |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 0.81 oz (23.0 g)                  |
| Returnability         | Yes                               |
| Country of origin     | FR                                |

Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 1.77 in (4.5 cm)       |
| Package 1 width              | 1.34 in (3.4 cm)       |
| Package 1 Length             | 2.13 in (5.4 cm)       |
| Unit Type of Package 2       | S03                    |
| Number of Units in Package 2 | 300                    |
| Package 2 Weight             | 16.71 lb(US) (7.58 kg) |
| Package 2 Height             | 11.81 in (30 cm)       |
| Package 2 width              | 11.81 in (30 cm)       |
| Package 2 Length             | 15.75 in (40 cm)       |
| Unit Type of Package 3       | BB1                    |
| Number of Units in Package 3 | 5                      |
| Package 3 Weight             | 4.09 oz (116.0 g)      |
| Package 3 Height             | 1.34 in (3.4 cm)       |
| Package 3 width              | 1.77 in (4.5 cm)       |
| Package 3 Length             | 10.43 in (26.5 cm)     |

Offer Sustainability

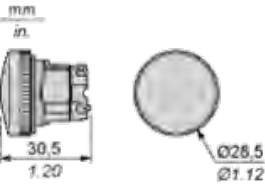
|                          |                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product                                                                             |
| REACH Regulation         | <a href="#">REACH Declaration</a>                                                                 |
| REACH free of SVHC       | Yes                                                                                               |
| EU RoHS Directive        | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Toxic heavy metal free     | Yes                                           |
| Mercury free               | Yes                                           |
| RoHS exemption information | <a href="#">Yes</a>                           |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>        |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | <a href="#">End of Life Information</a>       |

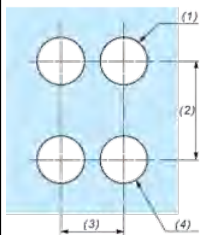
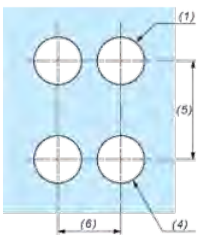
**Contractual warranty**

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

Dimensions

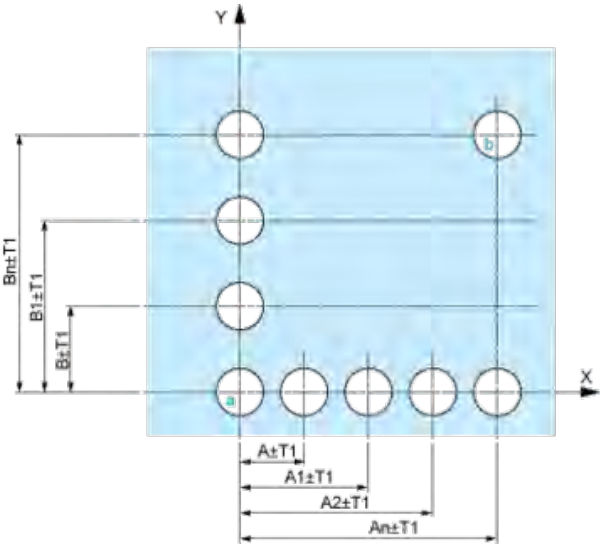


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

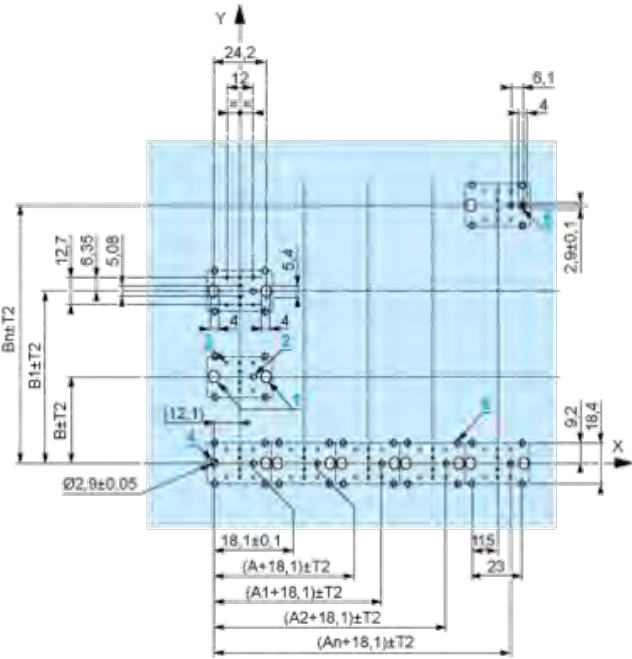
Panel Cut-outs (Viewed from Installer's Side)



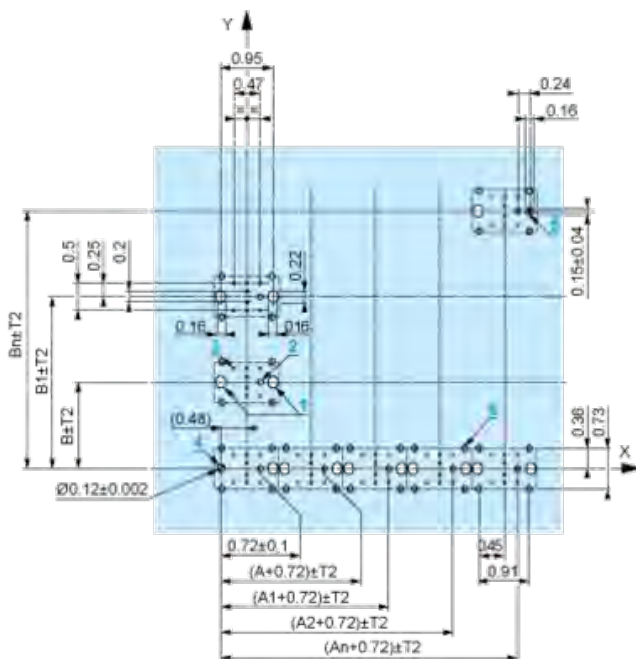
- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

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.

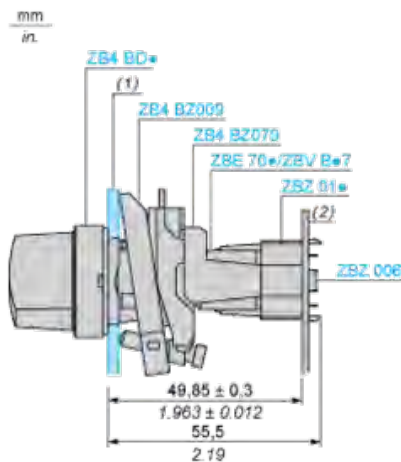
### General Tolerances of the Panel and Printed Circuit Board

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

### 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:  $\pm 2^\circ 30'$  (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

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Light block



Electrical Composition Corresponding to Code P4

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Legend

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Single contact



Double contact



Light block



Possible location

