

# Product datasheet

Specifications



green Ø30 mushroom pushbutton  
head Ø22 spring return

Local distributor code: 23708619    ZB4BC34

EAN Code : 3389110888393

## Main

|                               |                                      |
|-------------------------------|--------------------------------------|
| Range of product              | Harmony XB4                          |
| Product or component type     | Head for non-illuminated push-button |
| Device short name             | ZB4                                  |
| Bezel material                | Chromium plated metal                |
| 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              | Green mushroom Ø 30 mm, unmarked     |

## Complementary

|                             |                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width           | 30 mm                                                                                                                                                                                                                                                     |
| CAD overall height          | 30 mm                                                                                                                                                                                                                                                     |
| CAD overall depth           | 52 mm                                                                                                                                                                                                                                                     |
| Mechanical durability       | 5000000 cycles                                                                                                                                                                                                                                            |
| Electrical composition code | C1 for <9 contacts using single blocks in front mounting<br>C2 for <9 contacts using single and double blocks in front mounting<br>C11 for <3 contacts using single blocks in front mounting<br>C15 for <1 contacts using single blocks in front mounting |
| Device presentation         | Basic element                                                                                                                                                                                                                                             |

## Environment

|                                       |                                               |
|---------------------------------------|-----------------------------------------------|
| Protective treatment                  | TH                                            |
| Ambient air temperature for storage   | -40...70 °C                                   |
| Ambient air temperature for operation | -40...70 °C                                   |
| Overvoltage category                  | Class I conforming to IEC 60536               |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP69<br>IP69K |
| 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>UL 508<br>JIS C8201-5-1<br>EN/IEC 60947-5-5<br>CSA C22.2 No 14<br>JIS C8201-1                                        |
| Product certifications  | CSA<br>BV<br>LROS (Lloyds register of shipping)<br>UL listed<br>DNV<br>GL                                                                                                      |
| 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 |

### Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 4.4 cm   |
| Package 1 Width              | 5.4 cm   |
| Package 1 Length             | 8.8 cm   |
| Package 1 Weight             | 74.0 g   |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 42       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 3.471 kg |

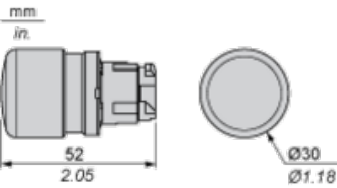
### Offer Sustainability

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

### Contractual warranty

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

Dimensions

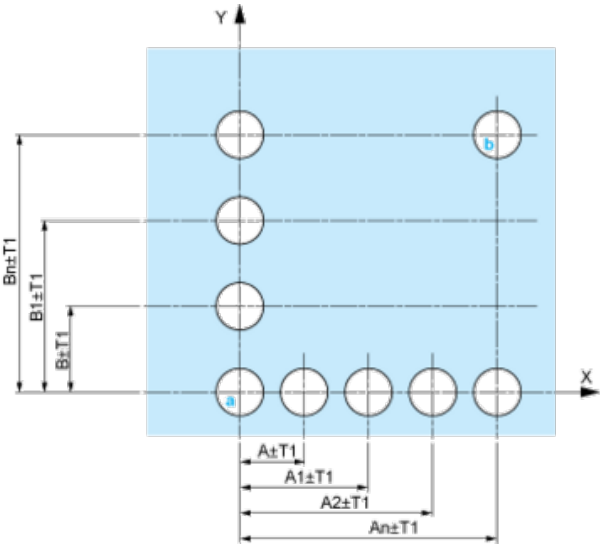


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| 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

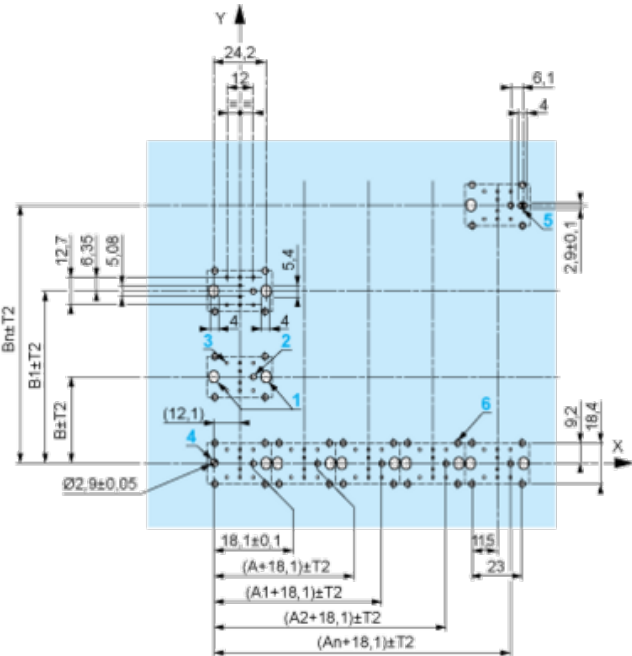
Panel Cut-outs (Viewed from Installer’s Side)



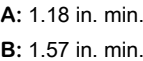
- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



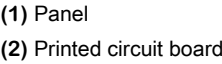
- A: 30 mm min.
- B: 40 mm min.
- Dimensions in in.



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 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 2 elongated holes for ZBZ 006 screw access
- 2 1 hole  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ 01•
- 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 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.

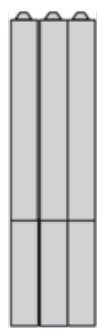
Electrical Composition Corresponding to Code C1

---



Electrical Composition Corresponding to Code C2

---





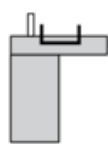
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

---

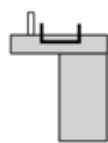


Electrical Composition Corresponding to Code C15

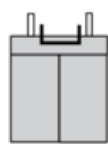
1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



Legend

---

Single contact



Double contact



Light block



Possible location



Recommended replacement(s)