

# Product data sheet

Specifications



## Head for selector switch, Harmony XB4, red Ø22 mm 3 position spring return

ZB4BD804

! Discontinued

! Discontinued on: Dec 2, 2020

! End-of-service on: Dec 31, 2020

### Main

|                               |                               |
|-------------------------------|-------------------------------|
| Range Of Product              | Harmony XB4                   |
| Product Or Component Type     | Head for selector switch      |
| Device Short Name             | ZB4                           |
| Bezel Material                | Chromium plated metal         |
| Mounting Diamete              | 0.87 in (22 mm)               |
| Head Type                     | Standard                      |
| Sale Per Indivisible Quantity | 1                             |
| Shape Of Signaling Unit Head  | Round                         |
| Type Of Operator              | Right to centre spring return |
| Operator Profile              | Red standard handle           |
| Operator Position Information | 3 positions +/- 45°           |

### Complementary

|                                    |  |
|------------------------------------|--|
| Cad Overall Width                  | 1.14 in (29 mm)  |
| Cad Overall Height                 | 1.14 in (29 mm)  |
| Cad Overall Depth                  | 1.73 in (44 mm)  |
| Net Weight                         | 0.09 lb(US) (0.04 kg)  |
| Resistance To High Pressure Washer | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m  |
| Mechanical Durability              | 1000000 cycles   |
| Electrical Composition Code        | C3 6 single front mounting<br>C4 6 single and double front mounting<br>C5 5 single front mounting<br>C6 5 single and double front mounting<br>C7 4 single front mounting<br>C8 4 single and double front mounting<br>C11 3 single front mounting |
| 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...158 °F (-40...70 °C) |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                           |   |
|---------------------------|---|
| Overvoltage Category      | Class I IEC 60536   |
| Ip Degree Of Protection   | IP67 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 60947-5-5<br>EN/IEC 60947-5-4<br>UL 508<br>CSA C22.2 No 14<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>JIS C8201-5-1<br>JIS C8201-1 |
| Product Certifications    | CSA<br>GL<br>LROS (Lloyds register of shipping)<br>UL Listed<br>DNV<br>BV   |
| 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              | 03389110801644                    |
| Returnability     | No                                |
| Country Of Origin | FR                                |

## Contractual warranty

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

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

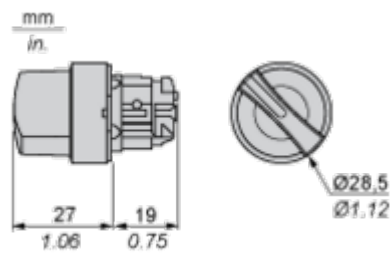
## Well-being performance

|                           |                            |   |
|---------------------------|----------------------------|---|
| ✓                         | Reach Free Of Svhc         |   |
| ✓                         | Toxic Heavy Metal Free     |   |
| ✓                         | Mercury Free               |   |
| ✓                         | Rohs Exemption Information | Yes   |
|                           |                            |   |
| Reach Regulation          |                            | <a href="#">REACH Declaration</a>   |
|                           |                            |   |
| Eu Rohs Directive         |                            | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>   |
|                           |                            |   |
| China Rohs Regulation     |                            | <a href="#">China RoHS declaration</a>  |
|                           |                            |   |
| California Proposition 65 |                            | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Dimensions Drawings

Dimensions

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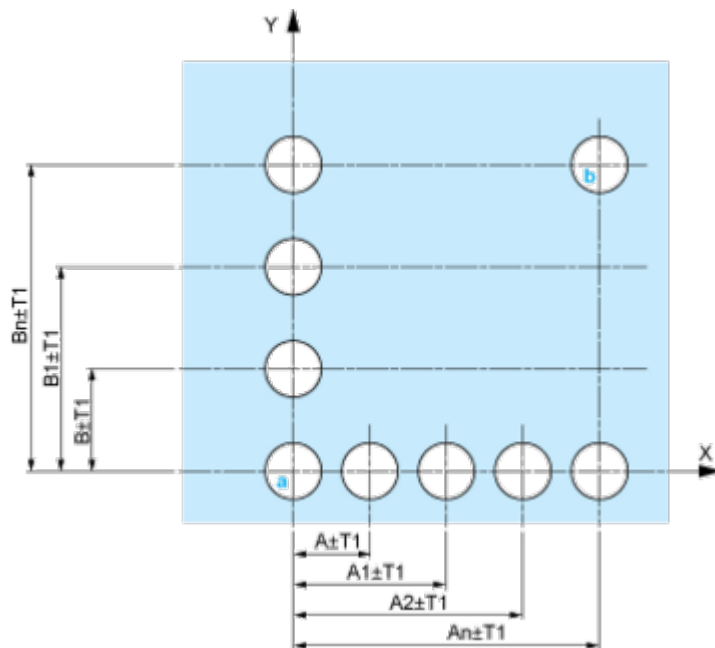
Mounting and Clearance

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 <math>^{+0.4}_0</math> / 0.88 in. <math>^{+0.016}_0</math>)</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)

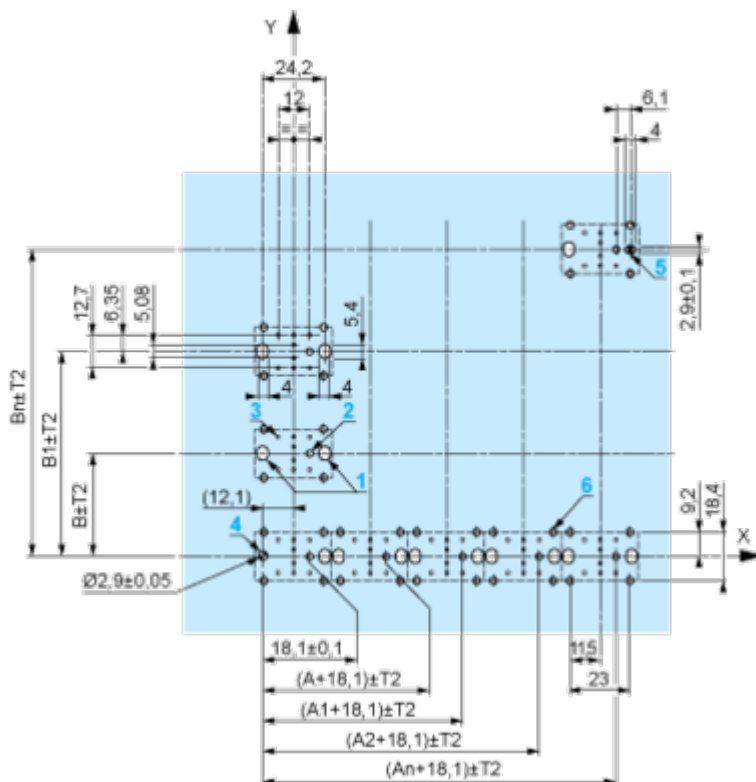


**A:** 30 mm min. / 1.18 in. min.

**B:** 40 mm min. / 1.57 in. min.

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

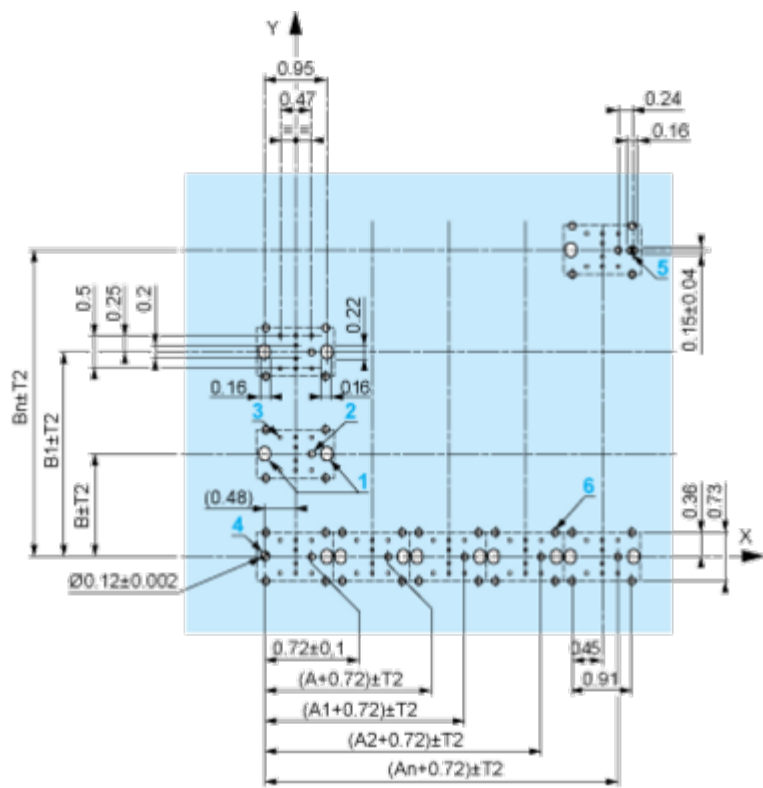
Dimensions in mm



**A:** 30 mm min.

**B: 40 mm min.**

Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

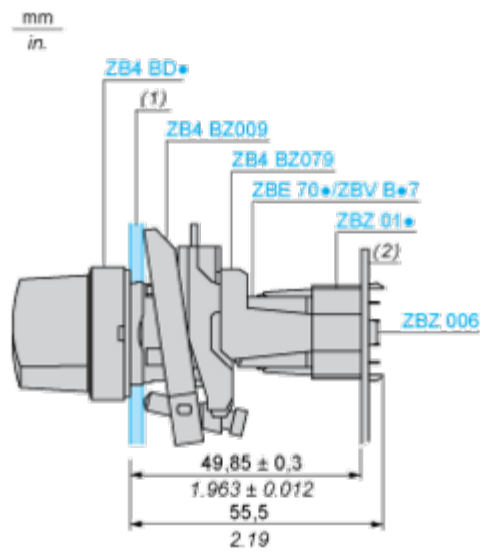
### General Tolerances of the Panel and Printed Circuit Board

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

### 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 Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 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 ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.



Technical Description

Electrical Composition Corresponding to Code C3

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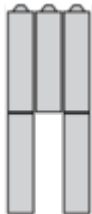
Electrical Composition Corresponding to Code C4

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Electrical Composition Corresponding to Code C5

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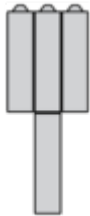
Electrical Composition Corresponding to Code C6

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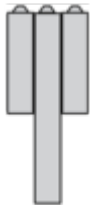
Electrical Composition Corresponding to Code C7

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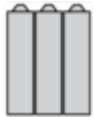


Electrical Composition Corresponding to Code C8

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



Legend

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Single contact



Double contact



Light block



Possible location





Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



|          |          |        |        |        |        |
|----------|----------|--------|--------|--------|--------|
| Push     | Position | Top    |        |        |        |
|          |          | Bottom |        |        |        |
|          | Location |        | Left   | Centre | Right  |
|          | State    |        | 1      | 1      | 0      |
|          |          |        |        |        |        |
| Contacts | N/O      |        | closed | closed | open   |
|          | N/C      |        | open   | open   | closed |




Position 0°



|          |          |        |        |        |        |
|----------|----------|--------|--------|--------|--------|
| Push     | Position | Top    |        |        |        |
|          |          | Bottom |        |        |        |
|          | Location |        | Left   | Centre | Right  |
|          | State    |        | 0      | 0      | 0      |
|          |          |        |        |        |        |
| Contacts | N/O      |        | open   | open   | open   |
|          | N/C      |        | closed | closed | closed |

Position 45°



|          |          |        |   |   |        |
|----------|----------|--------|---|---|--------|
| Push     | Position | Top    |  |   |        |
|          |          | Bottom |  |  |        |
|          | Location |        | Left  | Centre  | Right  |
|          | State    |        | 0   | 1   | 1      |
|          |          |        |   |   |        |
| Contacts | N/O      |        | open  | closed  | closed |
|          | N/C      |        | closed  | open  | open   |