# Product datasheet

Specifications

## Harmony XB4. Mushroom push button head Ø40. metal. yellow. Ø22. spring return

ZB4BC5

**Price: 364.68 ZAR**

## 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** | Yellow mushroom Ø 40 mm, unmarked |
| **Cap/Operator Or Lens Colour** | Yellow |

## Complementary

| | |
|---|---|
| **Cad Overall Width** | 40 mm |
| **Cad Overall Height** | 40 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 |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

| | |
|---|---|
| **Standards** | UL 508<br>EN/IEC 60947-5-5<br>CSA C22.2 No 14<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-1<br>EN/IEC 60947-1<br>JIS C8201-5-1<br>JIS C8201-1 |
| **Product Certifications** | CSA<br>LROS (Lloyds register of shipping)<br>GL<br>UL listed<br>BV<br>DNV |
| **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** | 8.8 cm |
| **Package 1 Width** | 4.4 cm |
| **Package 1 Length** | 5.4 cm |
| **Package 1 Weight** | 77.0 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** | 3.593 kg |

## 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-$CO_2$ 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 >

Transparency

RoHS/REACh

## Well-being performance

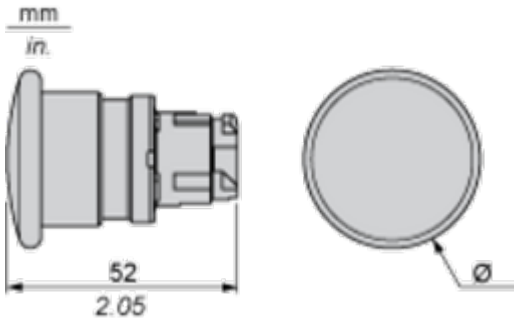
| | |
|---|---|
| Reach Free Of Svhc | |
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |

## Certifications & Standards

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Pro-active compliance (Product out of EU RoHS legal scope)<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |

Dimensions Drawings

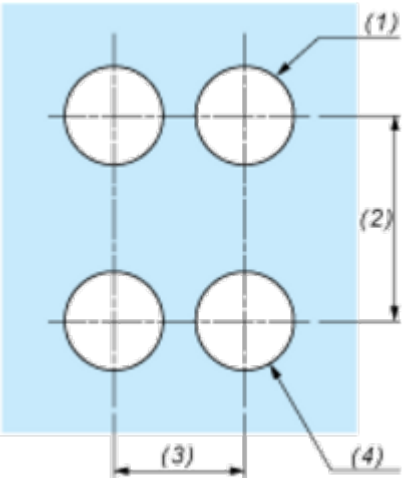
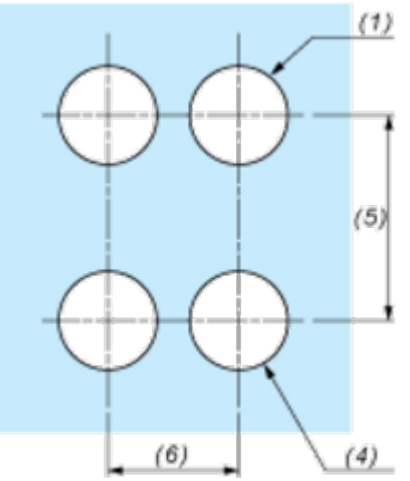
## Dimensions




| | Ø in mm | Ø in in. |
|---|---|---|
| ZB4BC• | 40 | 1.57 |
| ZB4BR• | 60 | 2.36 |

## Mounting and Clearance

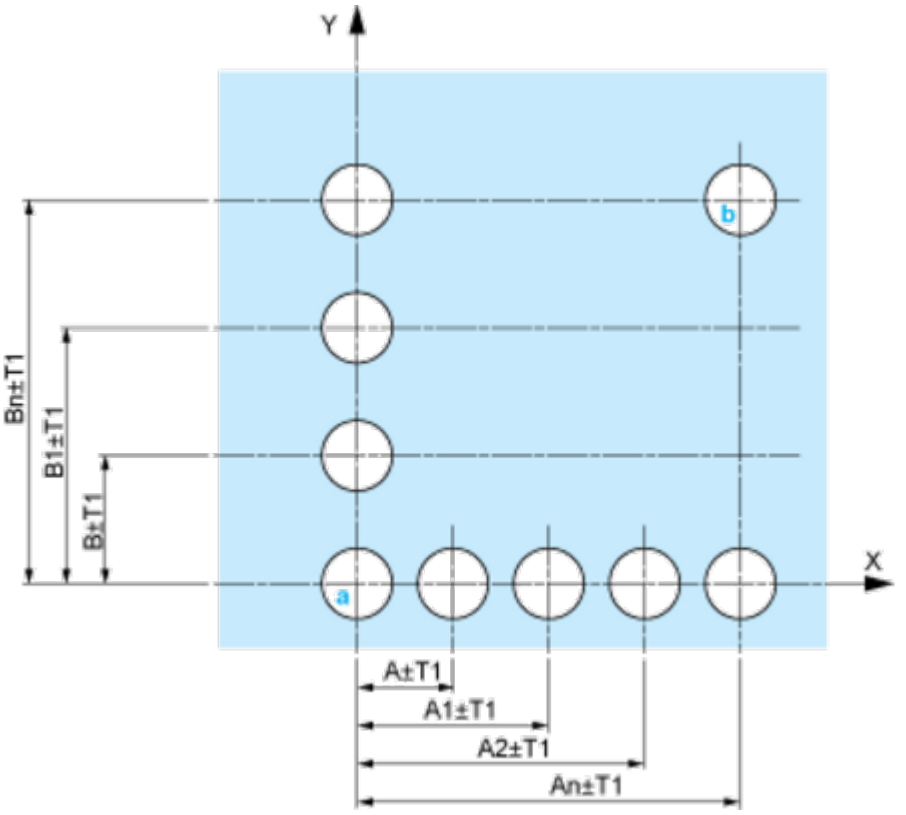
### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

**(1)** Diameter on finished panel or support
**(2)** 40 mm min. / 1.57 in. min.
**(3)** 30 mm min. / 1.18 in. min.
**(4)** Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_{0}^{+0.4}$ / 0.88 in. $_{0}^{+0.016}$)
**(5)** 45 mm min. / 1.78 in. min.
**(6)** 32 mm min. / 1.26 in. min.

## Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

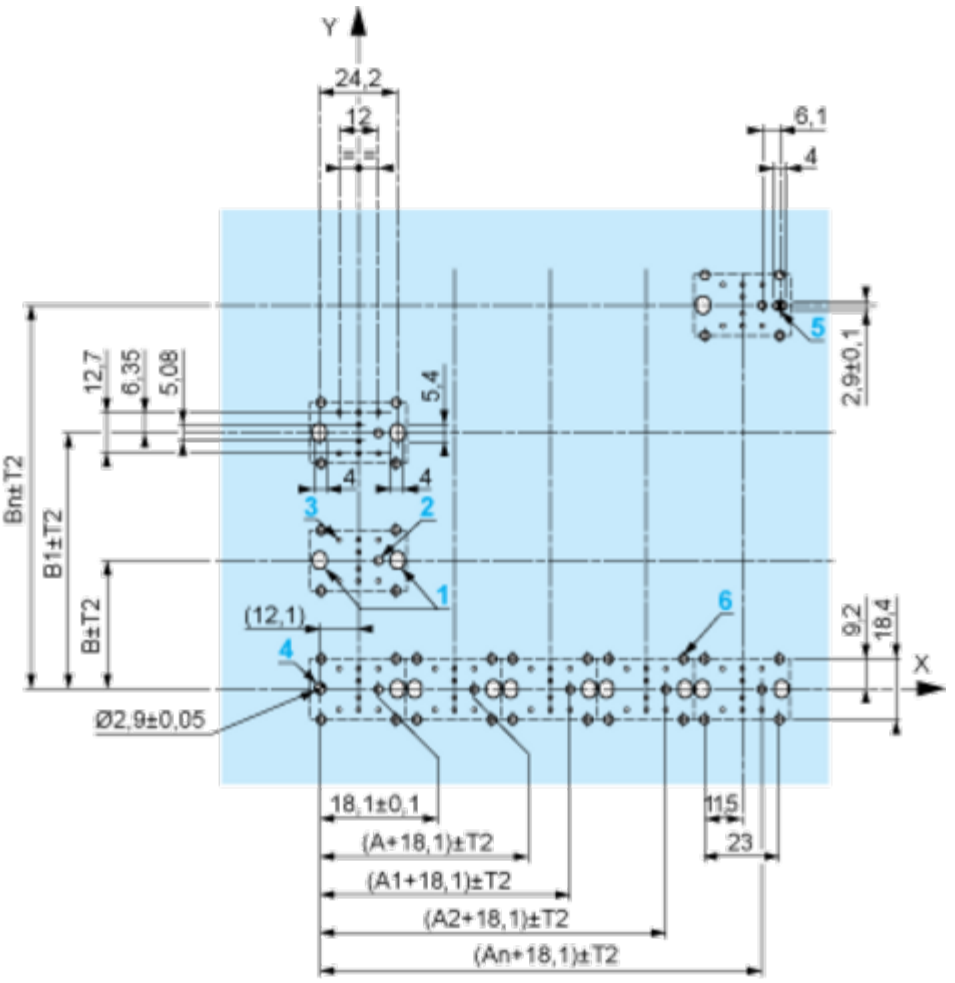
### Panel Cut-outs (Viewed from Installer's Side)



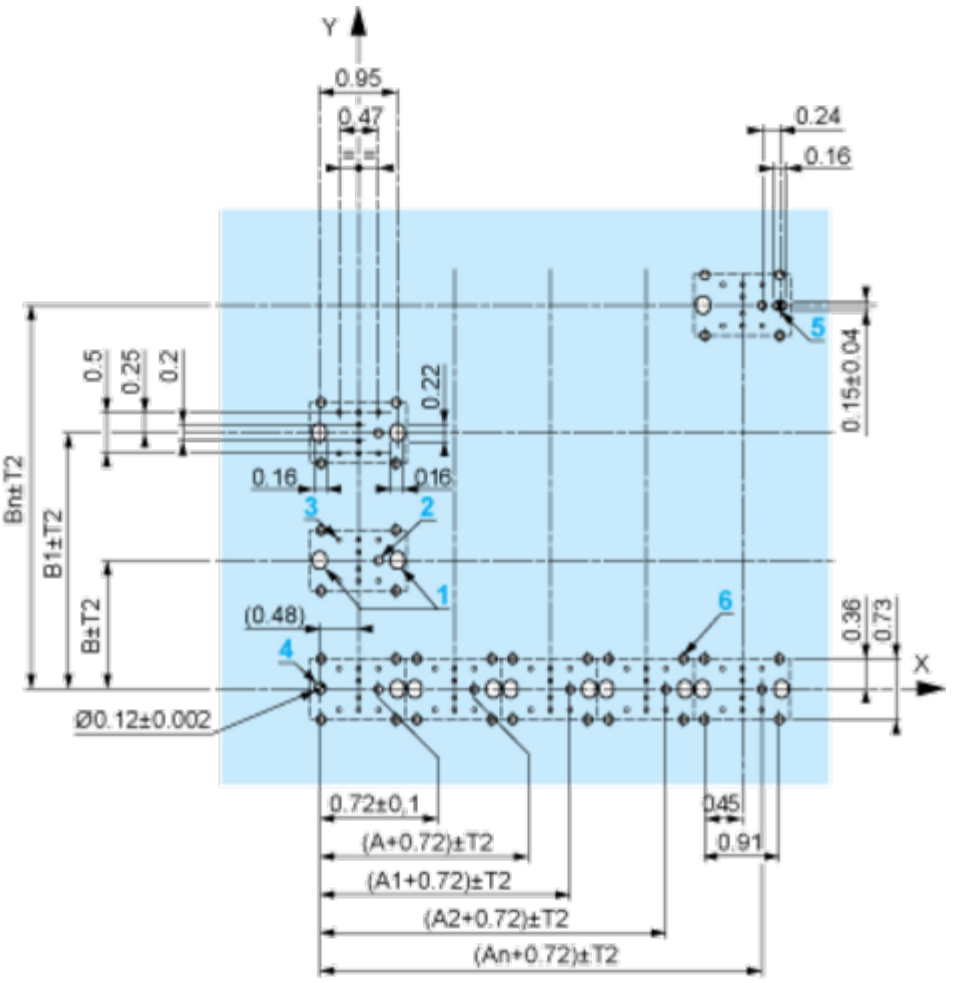

**A:** 30 mm min. / 1.18 in. min.
**B:** 40 mm min. / 1.57 in. min.

### 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.

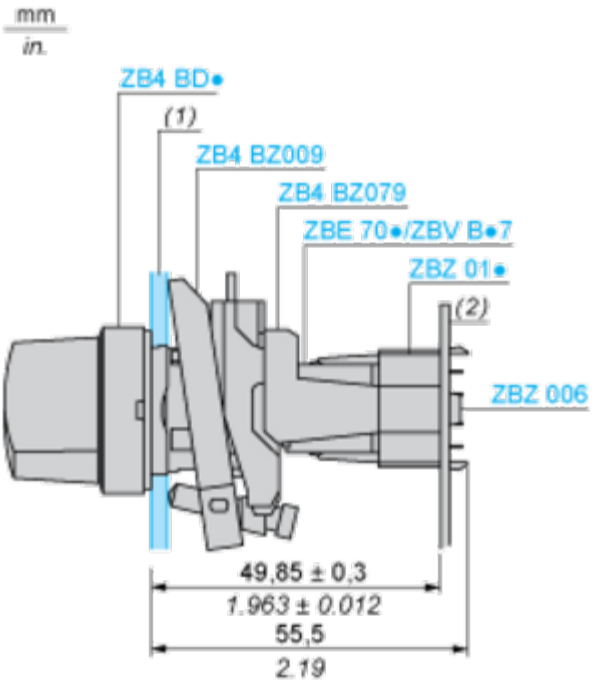
### General Tolerances of the Panel and Printed Circuit Board

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 ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB4 BZ009: ± 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•

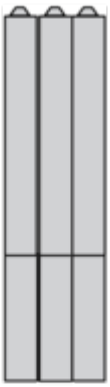
- **1** 2 elongated holes for ZBZ 006 screw access
- **2** 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- **3** 8 × Ø 1.2 mm / 0.05 in. holes
- **4** 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked **a**)
- **5** 1 elongated 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 C1**

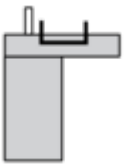
## Electrical Composition Corresponding to Code C2



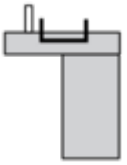
## Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

## Electrical Composition Corresponding to Code C15

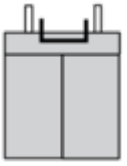
1 N/O



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