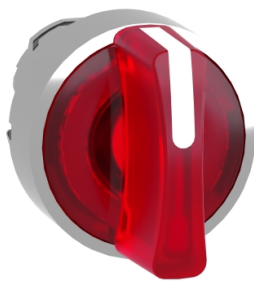# Product data sheet

Specifications

## Head for illuminated selector switch, Harmony XB4, metal, red handle, 22mm, universal LED, 3 positions, right to center

ZB4BK1843

⚠ **To be discontinued on:** Aug 15, 2024

⚠ **To be discontinued**

**Important message: Viktig information: en förändring i utseendet kan observeras på produkten, men detta påverkar inte dess användning i termer av funktion och säkerhet. Detta gör den kompatibel med våra Universal LED-block**

## Main

| | |
|---|---|
| **Range Of Product** | Harmony XB4 |
| **Product Or Component Type** | Head for illuminated selector switch |
| **Product Compatibility** | Universal LED |
| **Device Short Name** | ZB4 |
| **Bezel Material** | Chromium plated metal |
| **Head Type** | Standard |
| **Mounting Diameter** | 22.5 mm |
| **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° |
| **Cap/Operator Or Lens Colour** | Red |

## Complementary

| | |
|---|---|
| **Cad Overall Width** | 29 mm |
| **Cad Overall Height** | 29 mm |
| **Cad Overall Depth** | 43 mm |
| **Net Weight** | 0.036 kg |
| **Resistance To High Pressure Washer** | 7000000 Pa at 55 °C, distance : 0.1 m |
| **Mechanical Durability** | 500000 cycles |
| **Electrical Composition Code** | M3 for <4 contacts using single blocks in front mounting with integral LED<br>M6 for <2 contacts using single blocks in front mounting with integral LED and transformer<br>M10 for <2 contacts using single blocks in front mounting with integral LED<br>M4 for <4 contacts using single and double blocks in front mounting with integral LED |
| **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>IP67<br>IP69<br>IP69K |
| **Nema Degree Of Protection** | NEMA 13<br>NEMA 4X |
| **Ik Degree Of Protection** | IK04 conforming to IEC 50102 |
| **Standards** | JIS C8201-5-1<br>IEC 60947-1<br>IEC 60947-5-5<br>IEC 60947-5-4<br>CSA C22.2 No 14<br>UL 508<br>IEC 60947-5-1<br>JIS C8201-1 |
| **Product Certifications** | CSA<br>BV<br>UL listed<br>GL<br>LROS (Lloyds register of shipping)<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** | 3.4 cm |
| **Package 1 Length** | 5.4 cm |
| **Package 1 Weight** | 80 g |
| **Unit Type Of Package 2** | BB1 |
| **Number Of Units In Package 2** | 10 |
| **Package 2 Height** | 7 cm |
| **Package 2 Width** | 26.5 cm |
| **Package 2 Length** | 100 cm |
| **Package 2 Weight** | 800 g |
| **Unit Type Of Package 3** | S01 |
| **Number Of Units In Package 3** | 50 |
| **Package 3 Height** | 15 cm |
| **Package 3 Width** | 15 cm |
| **Package 3 Length** | 40 cm |
| **Package 3 Weight** | 2.275 kg |

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# Contractual warranty

**Warranty**                    18 months

# Sustainability

**Green Premium<sup>TM</sup> 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

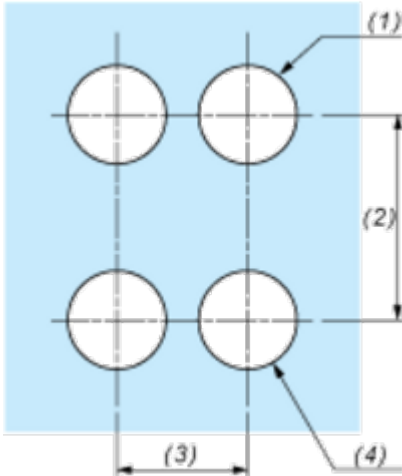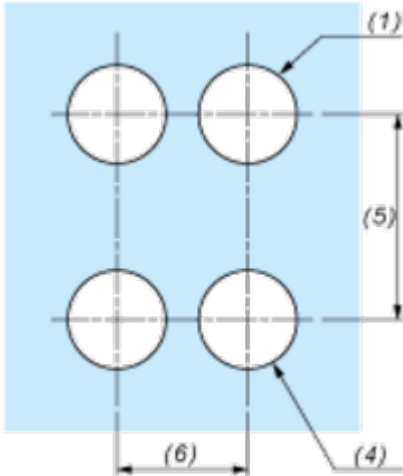| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Pro-active compliance (Product out of EU RoHS legal scope) <br> EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |
| **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 www.P65Warnings.ca.gov |

Dimensions Drawings

**Dimensions**
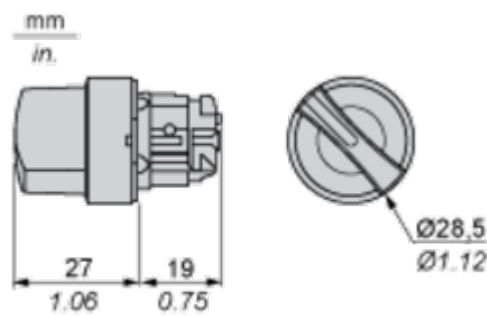
## Mounting and Clearance

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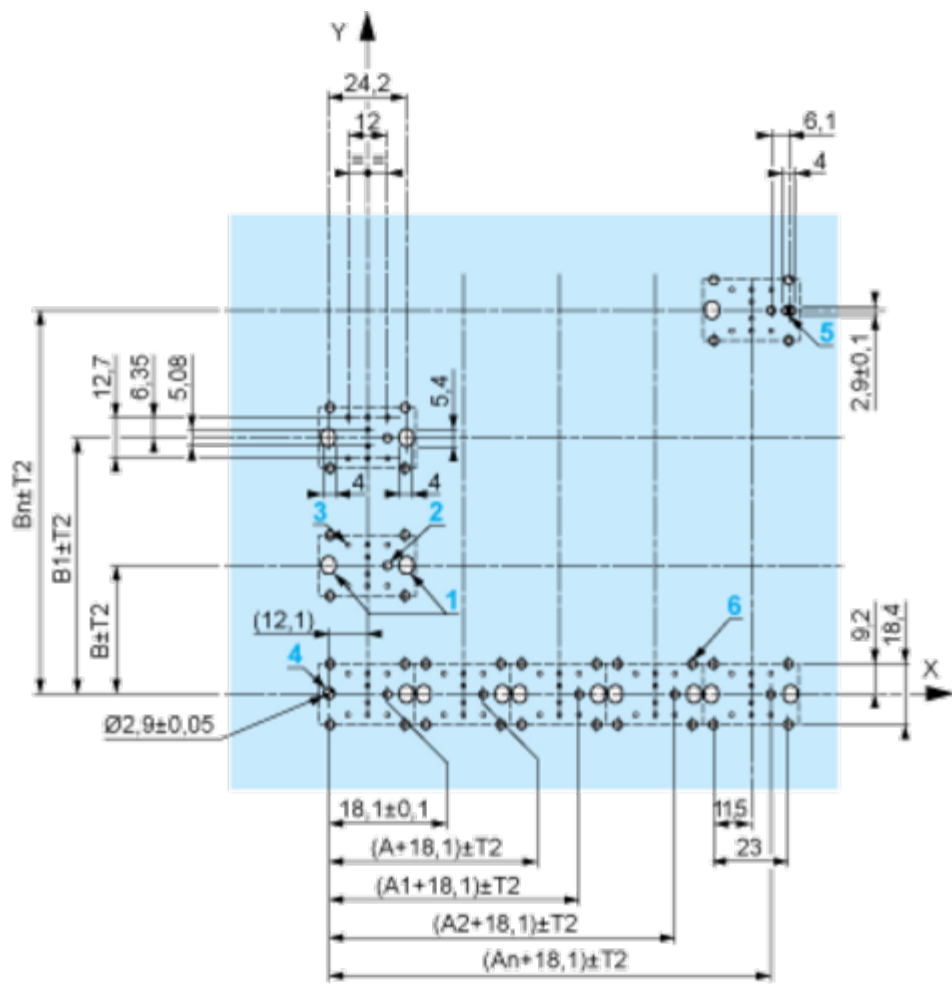
**Panel Cut-outs (Viewed from Installer's Side)**
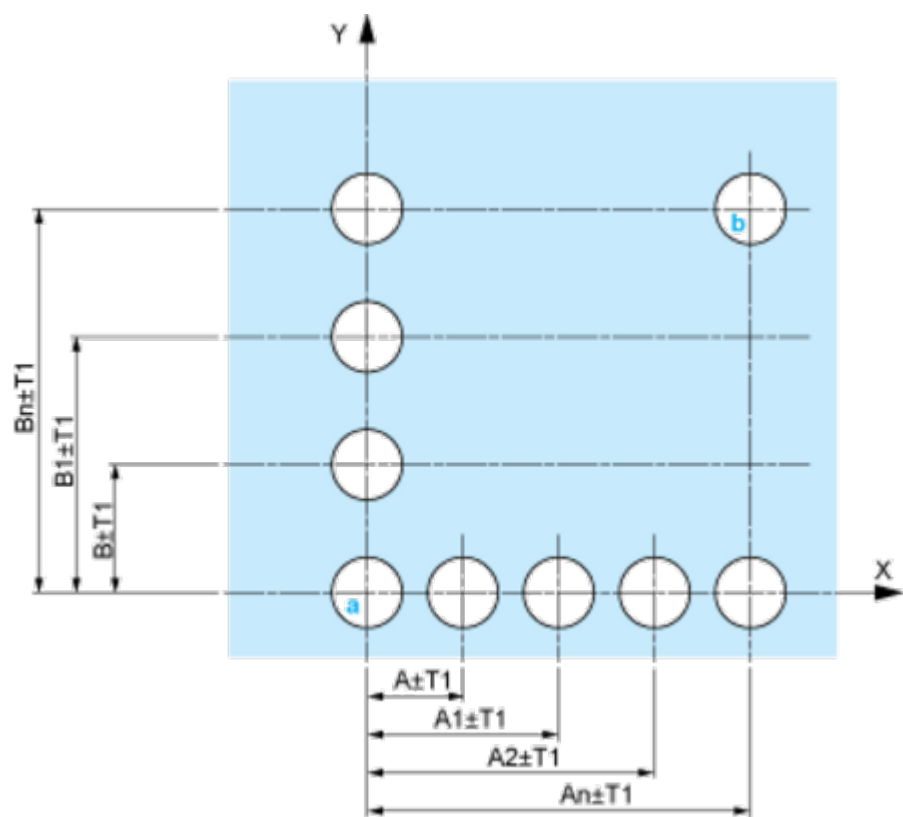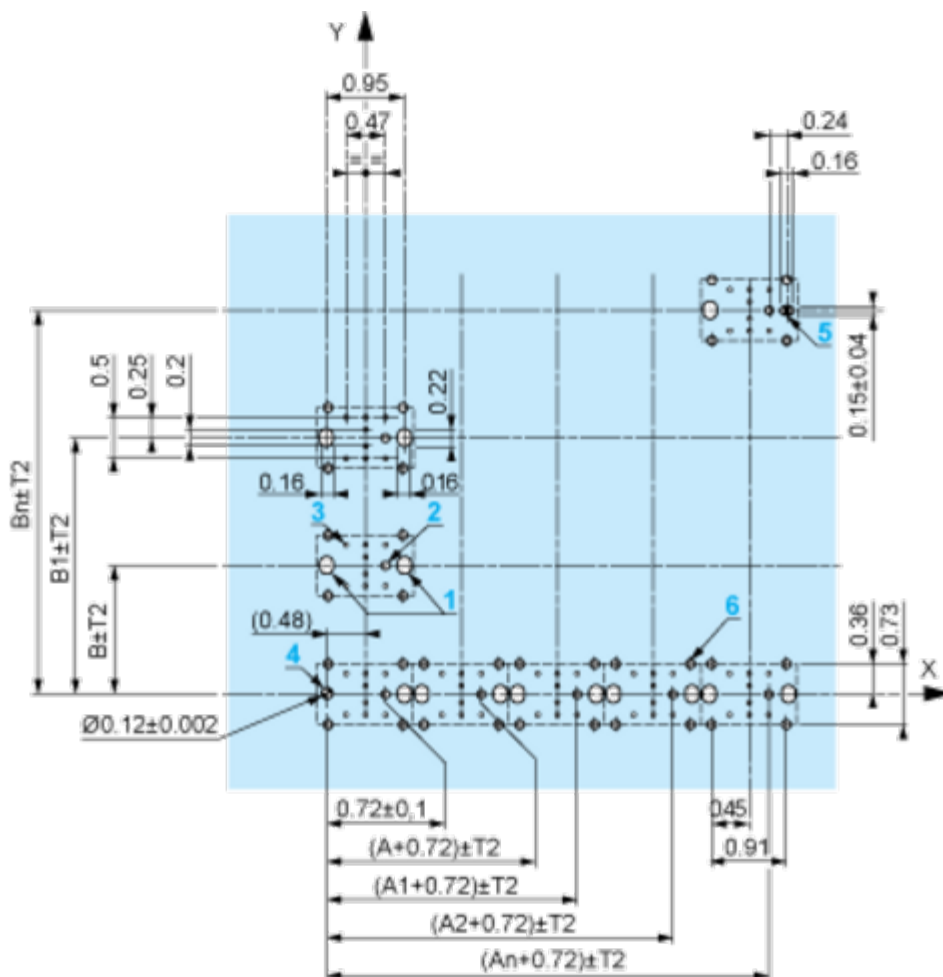


**A:** 30 mm min. / 1.18 in. min.
**B:** 40 mm min. / 1.57 in. min.

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

Dimensions in mm

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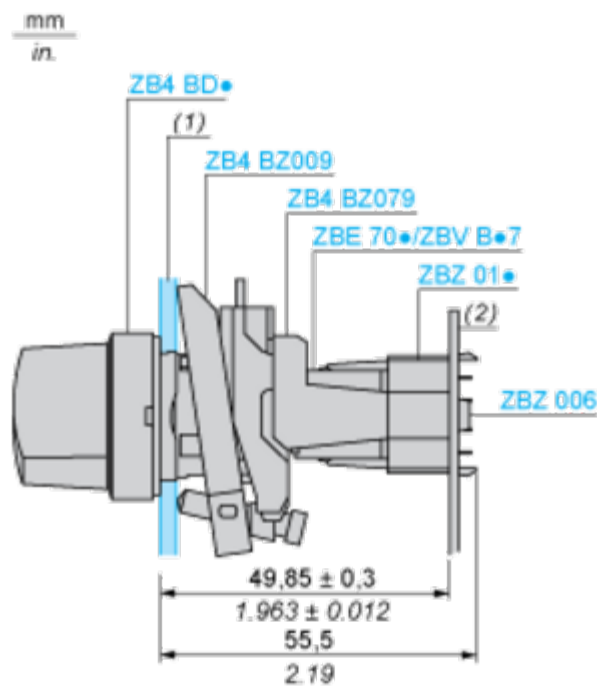
**A:** 1.18 in. min.
**B:** 1.57 in. min.

### 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**.

mm / in.

ZB4 BD●
(1)
ZB4 BZ009
ZB4 BZ079
ZBE 70●/ZBV B●7
ZBZ 01●
(2)
ZBZ 006

49,85 ± 0,3
1.963 ± 0.012
55,5
2.19

**(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**)
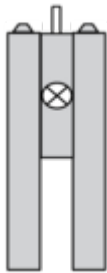- **6** 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

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

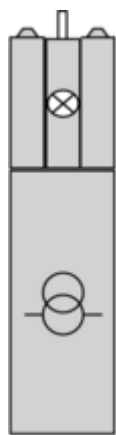Life Is On | Schneider Electric

Technical Description

**Electrical Composition Corresponding to Code M3**
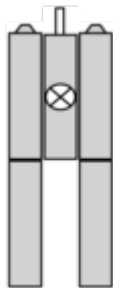
## Electrical Composition Corresponding to Code M4

**Electrical Composition Corresponding to Codes M6 and P2**

**Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2**

**Legend**

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 | | Right |
| | State | | 1 | | 0 |
| Contacts | N/O | | closed | | open |
| | N/C | | open | | closed |

**Position 0°**



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

**Position 45°**

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