# Product data sheet

Specifications

## Head for non illuminated push button, Harmony XB4, metal, flush, green, 22mm, spring return, booted, unmarked

ZB4BPA3

## Main

| | |
|---|---|
| Range of product | Harmony XB4 |
| Product or component type | Head for non-illuminated push-button |
| Device short name | ZB4 |
| Product compatibility | not compatible with legend holder |
| Bezel material | Chromium plated metal |
| Mounting diameter | 22.5 mm |
| Sale per indivisible quantity | 1 |
| Head type | Standard |
| Shape of signaling unit head | Round |
| Type of operator | spring return |
| Operator profile | Green flush, unmarked |
| Operator additional information | Clear boot |
| Cap/operator or lens colour | Green |

## Complementary

| | |
|---|---|
| CAD overall width | 30 mm |
| CAD overall height | 30 mm |
| CAD overall depth | 37 mm |
| Mechanical durability | 10000000 cycles |
| 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 |
| NEMA degree of protection | NEMA 13<br>NEMA 4X |
| IK degree of protection | IK06 conforming to IEC 50102 |

| Standards | CSA C22.2 No 14 |
| --- | --- |
| | IEC 60947-1 |
| | JIS C8201-5-1 |
| | IEC 60947-5-1 |
| | UL 508 |
| | IEC 60947-5-4 |
| | IEC 60947-5-5 |
| | JIS C8201-1 |
| Product certifications | BV |
| | CSA |
| | DNV |
| | LROS (Lloyds register of shipping) |
| | UL listed |
| 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 |
| | 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 | 3.6 cm |
| Package 1 Width | 4.8 cm |
| Package 1 Length | 3.0 cm |
| Package 1 Weight | 30.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 100 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 3.408 kg |

# Contractual warranty

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

Life Is On | Schneider Electric

## 🌀 Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained ›

How we assess product sustainability ›

### 🍃 Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **1** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### 🍂 Materials and Substances

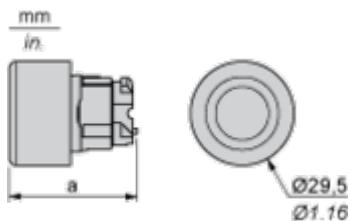| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| EU RoHS Directive | **Pro-active compliance (Product out of EU RoHS legal scope)** |
| California proposition 65 | **WARNING: This product can expose you to chemicals including: Di-isodecyl 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** |

## Use Again

### ↻ Repack and remanufacture

| | |
|---|---|
| End of life manual availability | **End of Life Information** |
| Take-back | **No** |

Dimensions Drawings

**Dimensions**



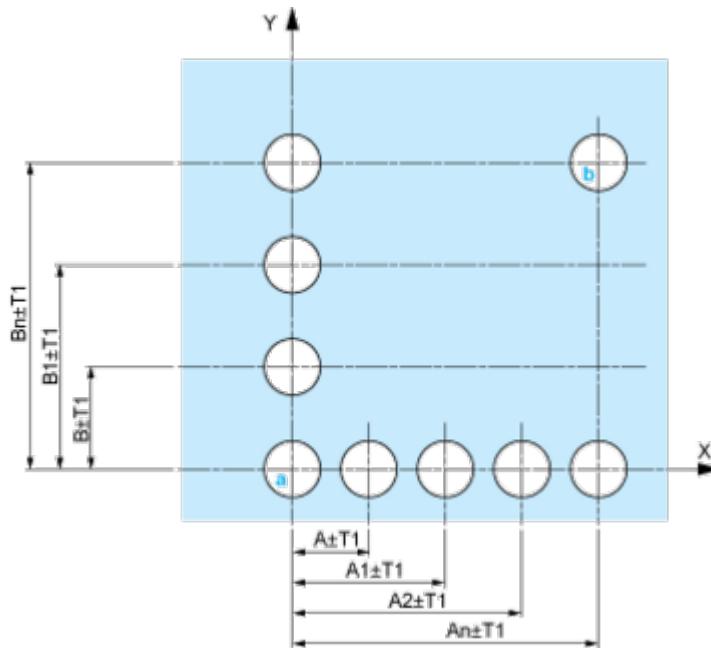|  | a in mm | a in in. |
|---|---|---|
| ZB4BP•• | 36.5 | 1.44 |
| ZB4BP•S | 33 | 1.30 |
| ZB4BP•83 | 32 | 1.26 |
| ZB4BP• | 35 | 1.38 |

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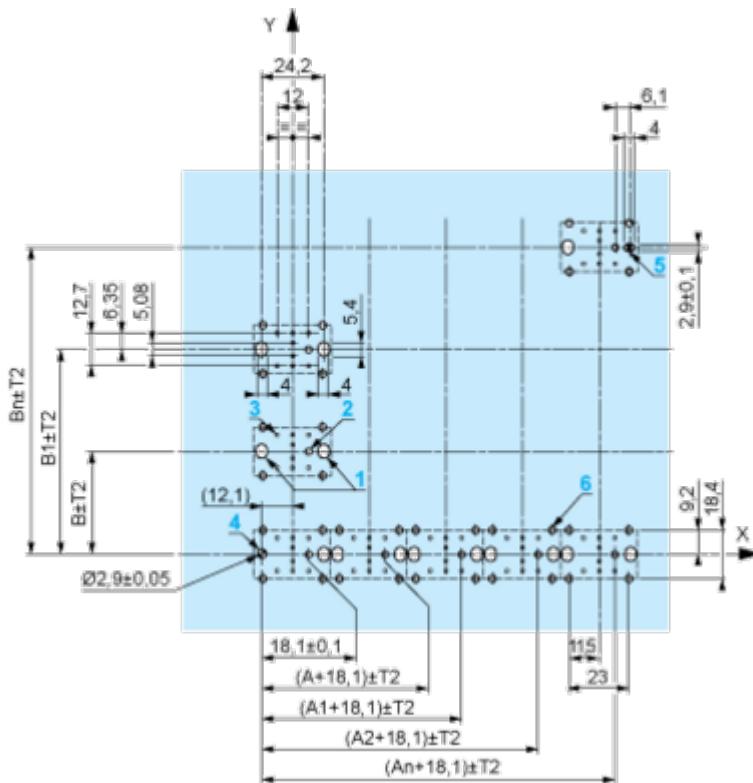
**Panel Cut-outs (Viewed from Installer's Side)**



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

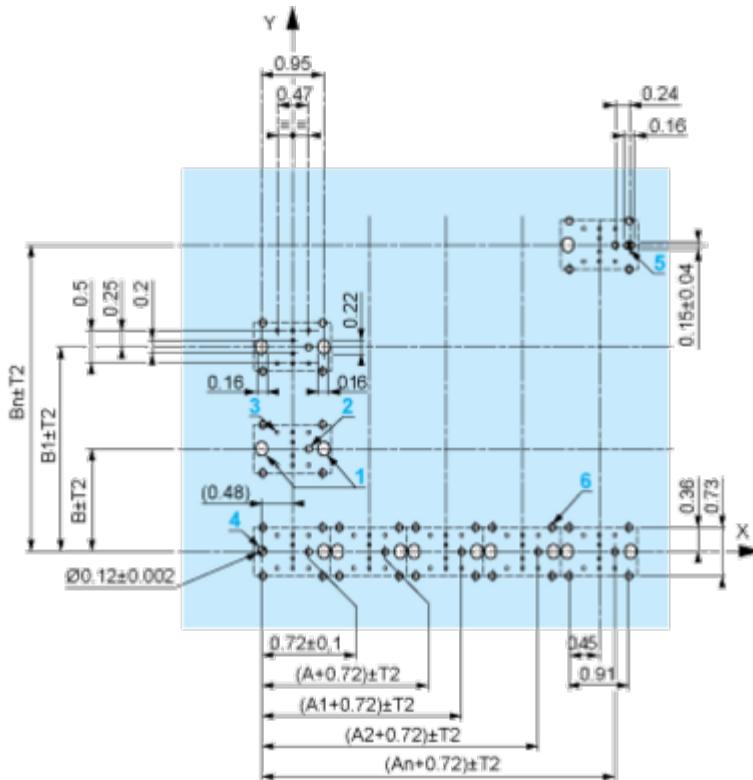**Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)**

Dimensions in mm



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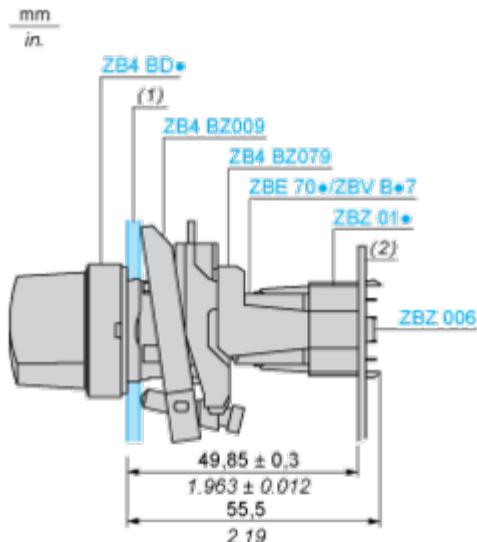Dimensions in in.

**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**.

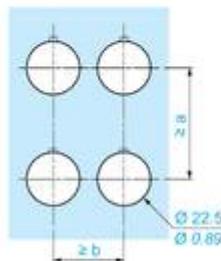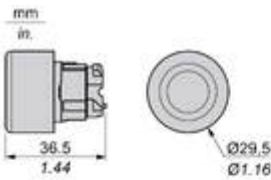**(1)** Panel
**(2)** Printed circuit board

## 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 Illustration

**Dimensions**



| | | a (mm) | a (in.) | b (mm) | b (in.) |
|---|---|---|---|---|---|
| ZBE•••••  | ZBV•••• | 40 | 1.57 | 30 | 1.18 |
| ZBE•••••3 | ZBV••••3 | 45 | 1.77 | 32 | 1.26 |
| ZBE•••••4 | ZBV••••4 | 40 | 1.57 | 30 | 1.18 |
| ZBE•••••5 | ZBV••••5 | 50 | 1.97 | 30 | 1.18 |
| ZBE•••••9 | ZBV••••9 | 40 | 1.57 | 30 | 1.18 |
| ZBRT• | ZBRV1 | 40 | 1.57 | 30 | 1.18 |

Image of product / Alternate images

**Alternative**