# Product data sheet

Specifications

## head for illuminated double headed push button, Harmony XB4, 2 white flush pushbuttons, 22mm, with marking

ZB4BW7A1715

## Main

| | |
|---|---|
| **Range of product** | Harmony XB4 |
| **Product or component type** | Head for illuminated double-headed push-button |
| **Product compatibility** | Integral LED |
| **Device short name** | ZB4 |
| **Bezel material** | Chromium plated metal |
| **Head type** | Standard |
| **Mounting diameter** | 22 mm |
| **Sale per indivisible quantity** | 1 |
| **Shape of signaling unit head** | Rectangular |
| **Type of operator** | spring return |
| **Operator profile** | 2 flush push-buttons - 1 central pilot light |
| **Operators description** | White "+" - white "-" |

## Complementary

| | |
|---|---|
| **CAD overall width** | 30 mm |
| **CAD overall height** | 50 mm |
| **CAD overall depth** | 30 mm |
| **Product weight** | 0.056 kg |
| **Resistance to high pressure washer** | 7000000 Pa at 55 °C, distance : 0.1 m |
| **Colour of marking** | White marking when green, red or black caps<br>Black marking when white caps |
| **Operator profile** | White flush, - (black)<br>White flush, + (black) |
| **Mechanical durability** | 1000000 cycles |
| **Electrical composition code** | M1 for <6 contacts using single blocks in front mounting with integral LED<br>M2 for <6 contacts using single and double 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 |
| **Device presentation** | Basic sub-assemblies |

## Environment

| | |
|---|---|
| **Protective treatment** | TH |
| **Ambient air temperature for storage** | -40…70 °C |

| | |
|---|---|
| **Ambient air temperature for operation** | -40…70 °C |
| **Electrical shock protection class** | Class I conforming to IEC 61140 |
| **IP degree of protection** | IP66 conforming to IEC 60529<br>IP67 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** | IEC 60947-1<br>IEC 60947-5-4<br>UL 508<br>IEC 60947-5-1<br>JIS C8201-5-1<br>IEC 60947-5-5<br>CSA C22.2 No 14<br>JIS C8201-1 |
| **Product certifications** | CSA<br>LROS (Lloyds register of shipping)<br>BV<br>UL listed<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** | 3.400 cm |
| **Package 1 Width** | 5.300 cm |
| **Package 1 Length** | 4.400 cm |
| **Package 1 Weight** | 55.000 g |
| **Unit Type of Package 2** | S01 |
| **Number of Units in Package 2** | 36 |
| **Package 2 Height** | 15.000 cm |
| **Package 2 Width** | 15.000 cm |
| **Package 2 Length** | 40.000 cm |
| **Package 2 Weight** | 2.000 kg |

## Contractual warranty

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

# 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) |

## Use Again

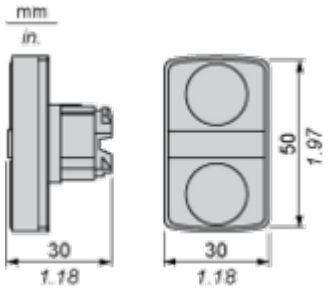
### Repack and remanufacture

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

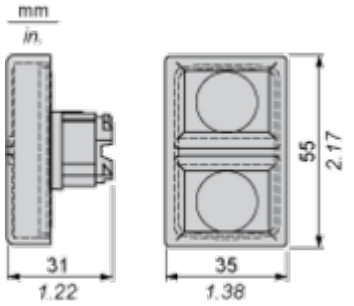
Dimensions Drawings

## Dimensions

### Without Boot

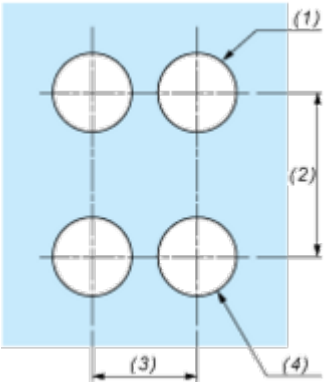
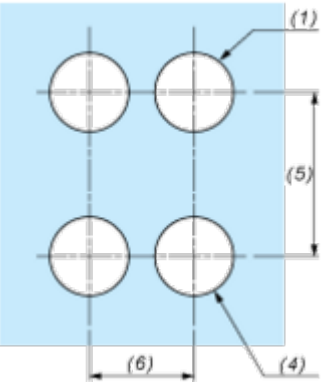



### With Boot ZBA708



## Mounting and Clearance

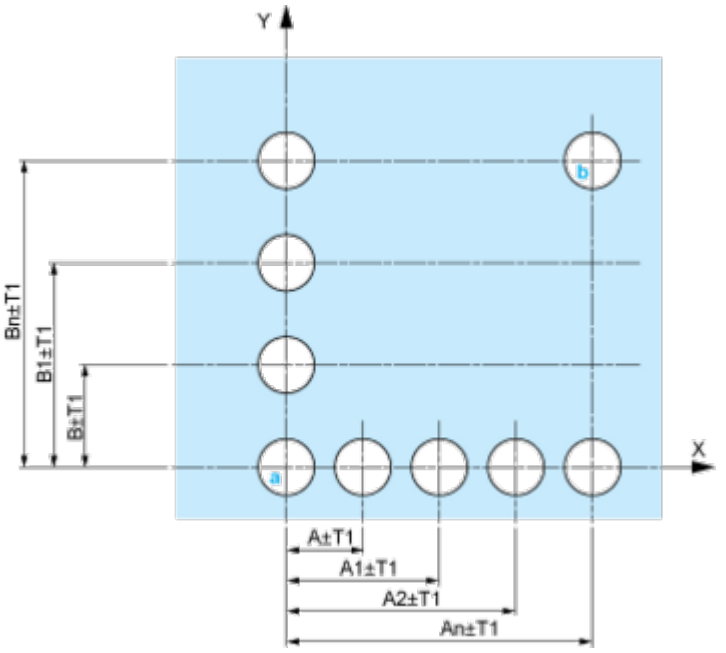
### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| 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

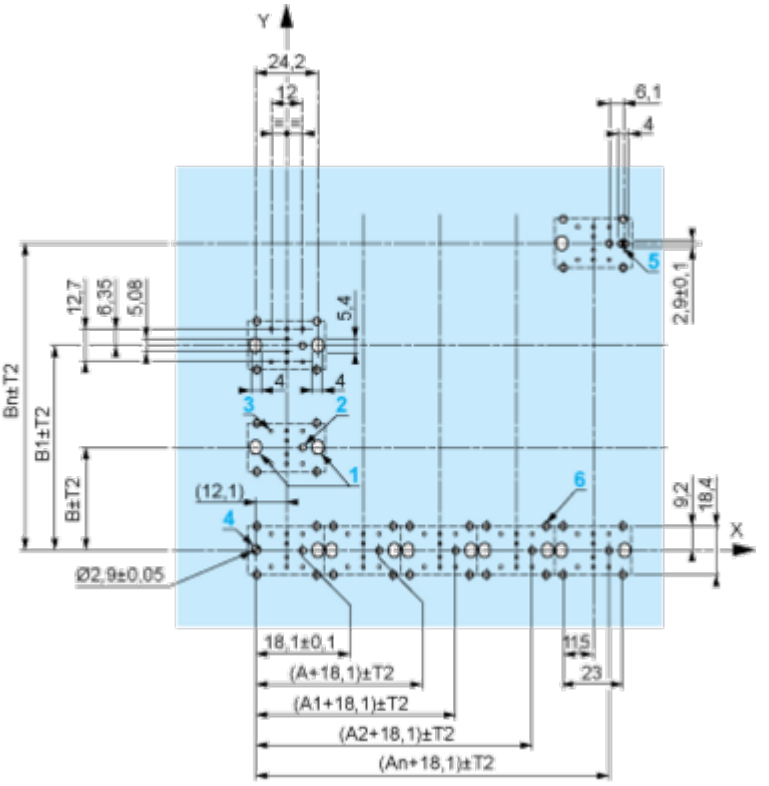
### Panel Cut-outs (Viewed from Installer's Side)



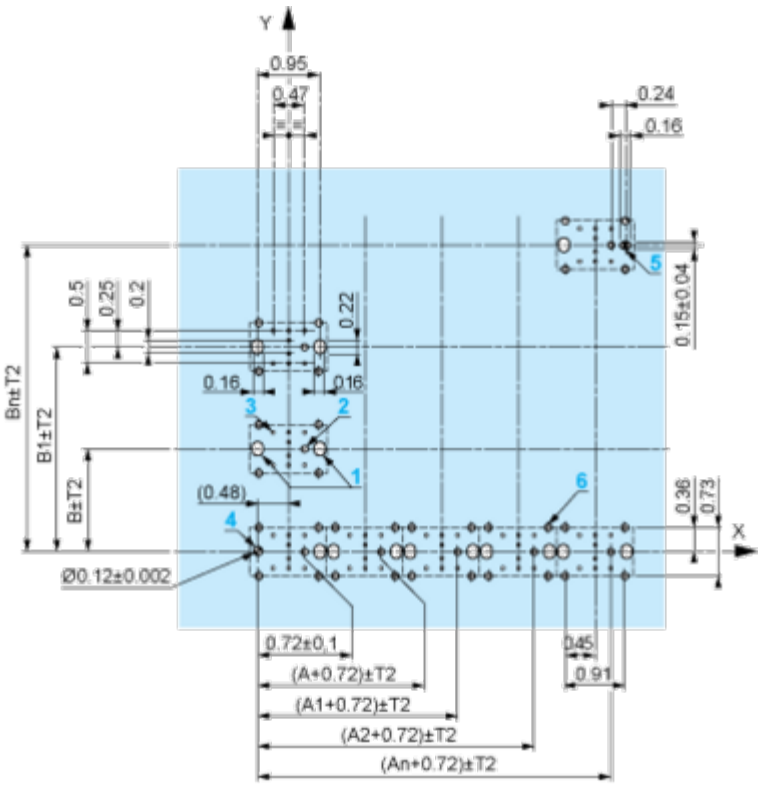

**A:** 30 mm min. / 1.18 in. min.
**B:** 40 mm min. / 1.57 in. min.

### 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.

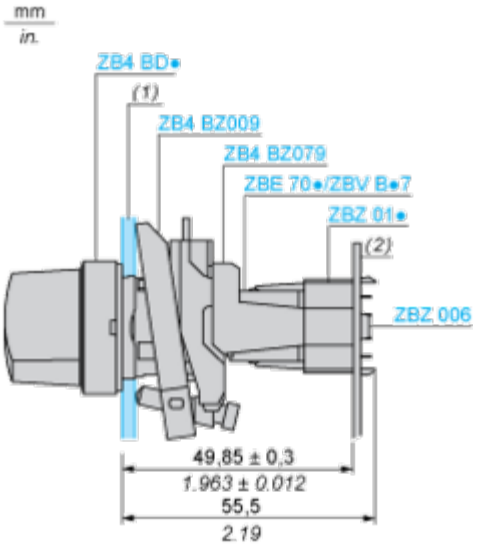
### General Tolerances of the Panel and Printed Circuit Board

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

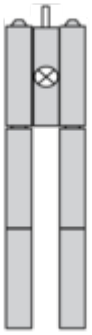
### Mounting of Adapter (Socket) ZBZ 01•

- **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•

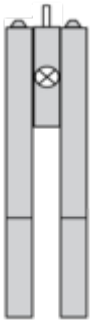
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

Technical Description

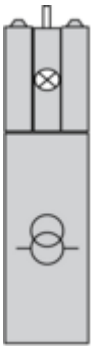
**Electrical Composition Corresponding to Codes M1 and M7**



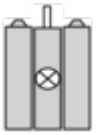
## Electrical Composition Corresponding to Codes M2 and M8



## Electrical Composition Corresponding to Codes M6 and P2



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



## Legend

Single contact

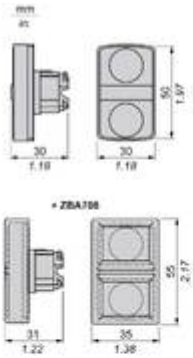
Double contact

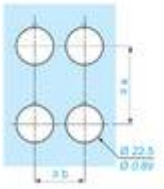
Light block

Possible location

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 |