### ZB4BT2

## black Ø40 mushroom pushbutton head Ø22 latching push-pull





#### 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                                    |
| Shape of signaling unit head  | Round                                |
| Type of operator              | Latching                             |
| Reset                         | Push-pull                            |
| Operator profile              | Black mushroom Ø 40 mm unmarked      |

#### Complementary

| CAD overall width           | 40 mm  |
|-----------------------------|--|
| CAD overall height          | 40 mm  |
| CAD overall depth           | 56 mm  |
| Product weight              | 0.077 kg   |
| Mechanical durability       | 500000 cycles  |
| Electrical composition code | C11 for <= 3 contacts using single blocks in front mounting C15 for 1 contacts using single blocks in front mounting C7 for <= 4 contacts using single blocks in front mounting C8 for <= 4 contacts using single and double blocks in front mounting C10 for <= 4 contacts using single and double blocks in front mounting |

#### Environment

| Environment                           |   |
|---------------------------------------|---|
| Protective treatment                  | TH  |
| Ambient air temperature for storage   | -4070 °C  |
| Ambient air temperature for operation | -4070 °C  |
| Overvoltage category                  | Class I conforming to IEC 60536   |
| IP degree of protection               | IP69<br>IP67<br>IP66 conforming to IEC 60529<br>IP69K   |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X  |
| IK degree of protection               | IK06 conforming to IEC 50102  |
| Standards                             | JIS C 4520<br>EN/IEC 60947-1<br>EN/IEC 60947-5-5<br>UL 508<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>EN/IEC 60947-5-4 |
| Product certifications                | DNV LROS (Lloyds register of shipping) CSA RINA BV UL listed GL   |

| Vibration resistance             | 5 gn (f = 2500 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 |
| Offer Sustainability             |   |
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0832 - Schneider Electric declaration of conformi-                  |
|                                  | ty  |
| REACh                            | Reference not containing SVHC above the threshold                                     |
| Product end of life instructions | Need no specific recycling operations   |

18 months

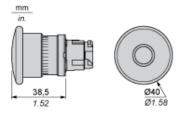


Warranty period

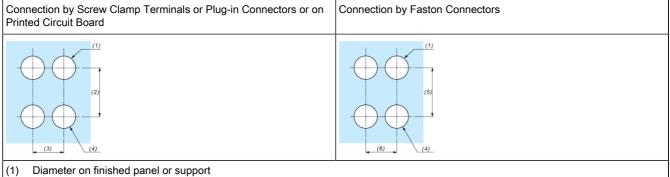
# Product data sheet Dimensions Drawings

### ZB4BT2

#### **Dimensions**



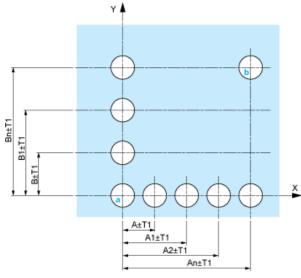
#### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)



- 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0$  <sup>+0.4</sup> / 0.88 in.  $_0$  <sup>+0.016</sup>) (4)
- (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

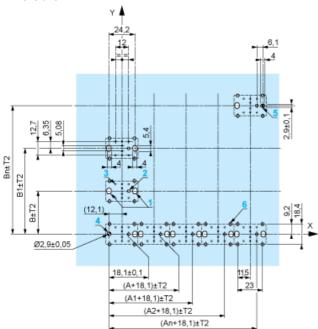
#### Panel Cut-outs (Viewed from Installer's Side)



- 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

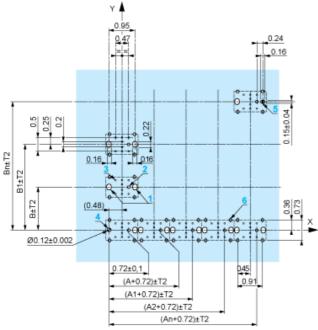
#### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min.





A: 1.18 in. min. B: 1.57 in. min.

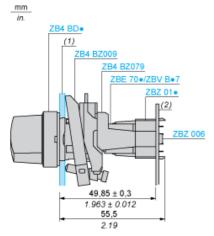
#### General Tolerances of the Panel and Printed Circuit Board

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:
  - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - o 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  $\pm$  0.05 / 0.11 in.  $\pm$  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  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.

## Product data sheet Technical Description

### ZB4BT2

| Electrical Composition Corresponding to Code C7                    |
|--|
|  |
| Electrical Compositions Corresponding to Code C8                   |
|  |
| Electrical Compositions Corresponding to Code C10                  |
|  |
| 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

