

## ZB4BPA4

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



### 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               | 0.87 in (22 mm)                      |
| Sale per indivisible quantity   | 1                                    |
| Head type                       | Standard                             |
| Shape of signaling unit head    | Round                                |
| Type of operator                | Spring return                        |
| Operator profile                | Red flush, unmarked                  |
| Operator additional information | Clear boot                           |

### Complementary

|                       |                 |
|-----------------------|-----------------|
| CAD overall width     | 1.18 in (30 mm) |
| CAD overall height    | 1.18 in (30 mm) |
| CAD overall depth     | 1.46 in (37 mm) |
| Mechanical durability | 10000000 cycles |
| Device presentation   | Basic element   |

### Environment

|                                       |                                                                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                  | TH                                                                                                                          |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C)                                                                                                  |
| Ambient Air Temperature for Operation | -40...158 °F (-40...70 °C)                                                                                                  |
| Overvoltage category                  | Class I IEC 60536                                                                                                           |
| IP degree of protection               | IP66 IEC 60529<br>IP67                                                                                                      |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                          |
| IK degree of protection               | IK06 IEC 50102                                                                                                              |
| Standards                             | IEC 60947-5-4<br>IEC 60947-1<br>CSA C22.2 No 14<br>IEC 60947-5-1<br>UL 508<br>JIS C8201-5-1<br>IEC 60947-5-5<br>JIS C8201-1 |
| Product Certifications                | UL Listed[RETURN]DNV[RETURN]LROS (Lloyds register of shipping)<br>[RETURN]GL[RETURN]CSA[RETURN]BV                           |
| Vibration resistance                  | 5 gn 2...500 Hz)IEC 60068-2-6                                                                                               |
| Shock resistance                      | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27<br>50 gn 11 ms) half sine wave acceleration IEC 60068-2-27          |

## Ordering and shipping details

|                   |                                   |
|-------------------|-----------------------------------|
| Category          | 22468-PUSHBUTTONS,22MM(METAL) NEW |
| Discount Schedule | CS2                               |
| GTIN              | 3389110966541                     |
| Returnability     | Yes                               |
| Country of origin | FR                                |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 1.42 in (3.6 cm)       |
| Package 1 Width              | 1.97 in (5 cm)         |
| Package 1 Length             | 1.26 in (3.2 cm)       |
| Package 1 Weight             | 1.06 oz (30 g)         |
| Unit Type of Package 2       | BB1                    |
| Number of Units in Package 2 | 5                      |
| Package 2 Height             | 1.73 in (4.4 cm)       |
| Package 2 Width              | 10.43 in (26.5 cm)     |
| Package 2 Length             | 1.34 in (3.4 cm)       |
| Package 2 Weight             | 5.47 oz (155 g)        |
| Unit Type of Package 3       | S02                    |
| Number of Units in Package 3 | 100                    |
| Package 3 Height             | 5.91 in (15 cm)        |
| Package 3 Width              | 11.81 in (30 cm)       |
| Package 3 Length             | 15.75 in (40 cm)       |
| Package 3 Weight             | 7.46 lb(US) (3.383 kg) |

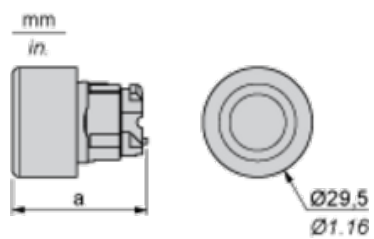
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                 |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                     |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                                   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                        |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                                                   |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                         |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                               |

## Contractual warranty

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

## Dimensions



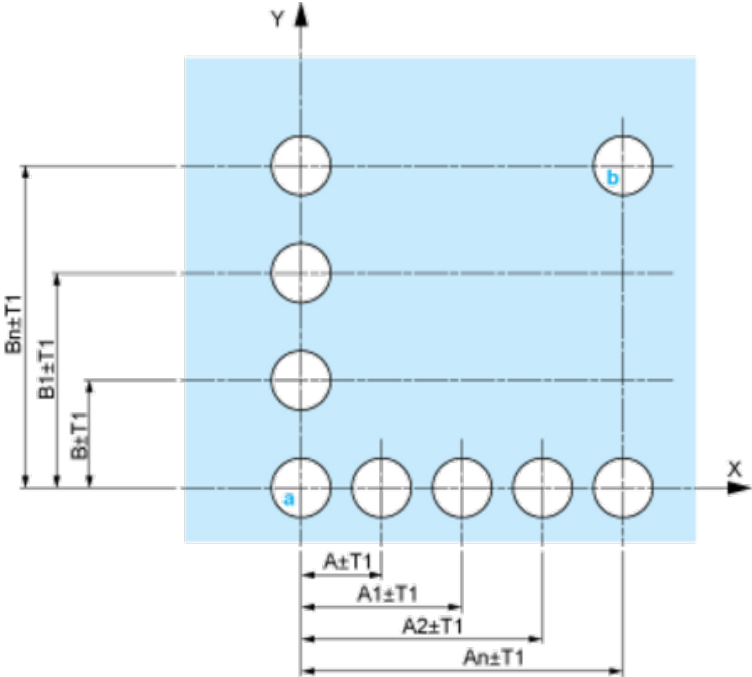
|          | a in mm | a in in. |
|----------|---------|----------|
| ZB4BP••  | 36.5    | 1.44     |
| ZB4BP•S  | 33      | 1.30     |
| ZB4BP•83 | 32      | 1.26     |
| ZB4BP•   | 35      | 1.38     |

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 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                                                                                                                                                                                                                                                                                                                                       |                                 |
| <p>(1) Diameter on finished panel or support</p> <p>(2) 40 mm min. / 1.57 in. min.</p> <p>(3) 30 mm min. / 1.18 in. min.</p> <p>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <sub>0</sub><sup>+0.4</sup> / 0.88 in. <sub>0</sub><sup>+0.016</sup>)</p> <p>(5) 45 mm min. / 1.78 in. min.</p> <p>(6) 32 mm min. / 1.26 in. min.</p> |                                 |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

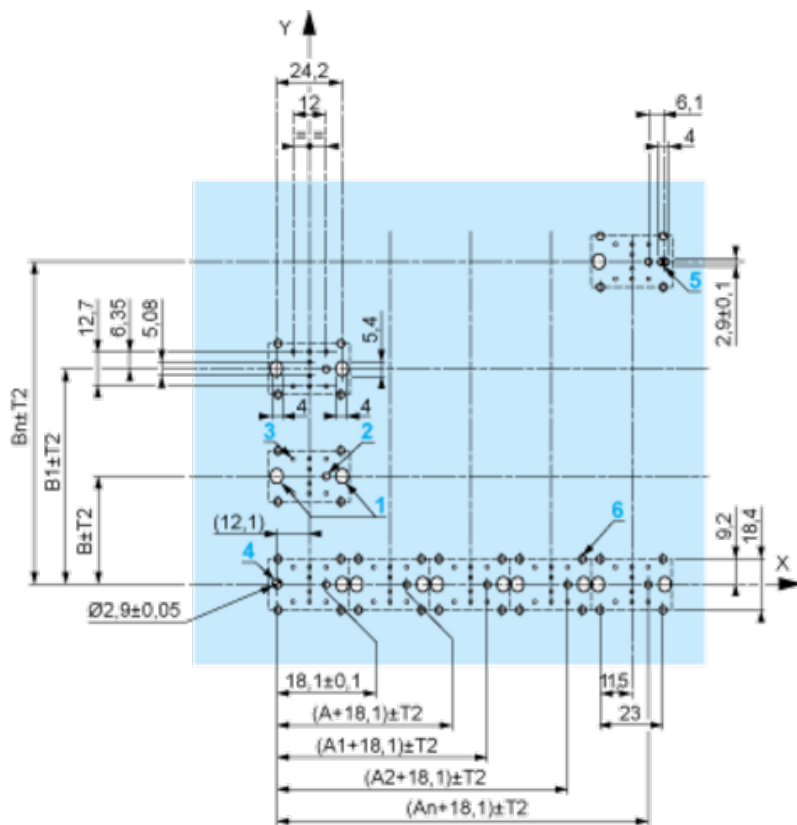


A: 30 mm min. / 1.18 in. min.

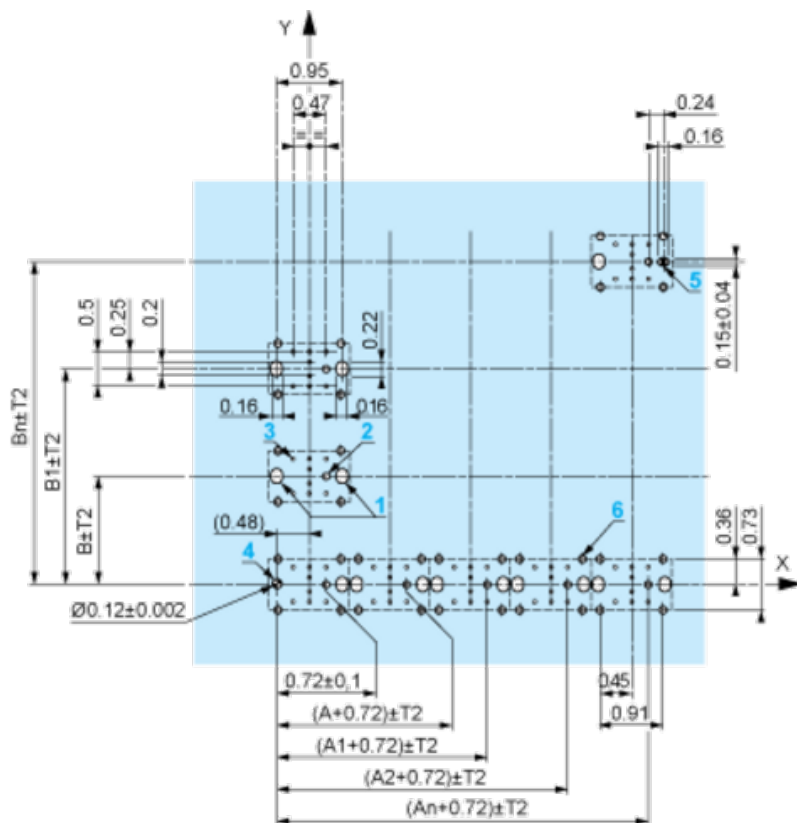
B: 40 mm min. / 1.57 in. min.

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.

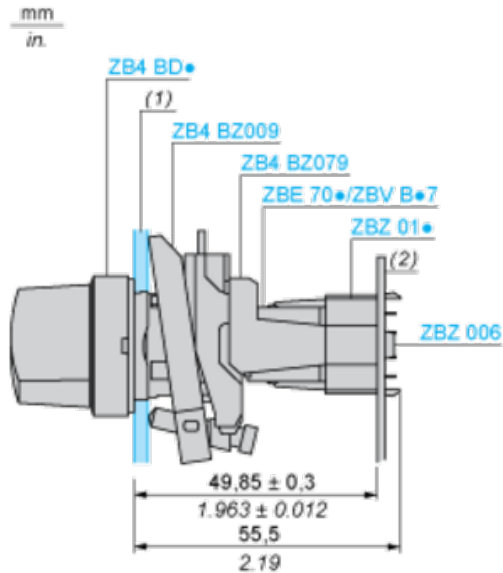
### General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in:  $T1 + T2 = 0.3 \text{ mm max.}$

## Installation Precautions

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm  $\pm$  0.1 / 0.88 in.  $\pm$  0.004
- Orientation of body/fixing collar ZB4 BZ009:  $\pm 2^\circ 30'$  (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  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ 01•
- 3 8  $\times$   $\varnothing$  1.2 mm / 0.05 in. holes
- 4 1 hole  $\varnothing$  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  $\varnothing$  2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.