

# ZB4BW343

Head for illuminated push button, Harmony XB4, metal, red flush, 22mm, universal LED, spring return, plan lens, unmarked



## Main

|                                 |                                  |
|---------------------------------|----------------------------------|
| Range of Product                | Harmony XB4                      |
| Product or Component Type       | Head for illuminated push-button |
| Device short name               | ZB4                              |
| Product Compatibility           | Universal LED                    |
| Bezel material                  | Chromium plated metal            |
| Head type                       | Standard                         |
| Mounting diameter               | 0.87 in (22 mm)                  |
| Sale per indivisible quantity   | 1                                |
| Shape of signaling unit head    | Round                            |
| Type of operator                | Spring return                    |
| Operator profile                | Red flush, unmarked              |
| Operator additional information | With plain lens                  |

## Complementary

|                                    |                                                                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                  | 1.14 in (29 mm)                                                                                                                                                                                      |
| CAD overall height                 | 1.14 in (29 mm)                                                                                                                                                                                      |
| CAD overall depth                  | 1.18 in (30 mm)                                                                                                                                                                                      |
| Net Weight                         | 0.06 lb(US) (0.026 kg)                                                                                                                                                                               |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m                                                                                                                                                        |
| Mechanical durability              | 10000000 cycles                                                                                                                                                                                      |
| Electrical composition code        | M1 6 single front mounting integral LED<br>M2 6 single and double front mounting integral LED<br>M6 2 single front mounting integral LED and transformer<br>M10 2 single front mounting integral LED |
| Device presentation                | Basic sub-assemblies                                                                                                                                                                                 |

## 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<br>IP69<br>IP69K                                                                                     |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                          |
| IK degree of protection               | IK06 IEC 62262                                                                                                              |
| Standards                             | IEC 60947-5-5<br>CSA C22.2 No 14<br>IEC 60947-5-1<br>IEC 60947-1<br>IEC 60947-5-4<br>JIS C8201-5-1<br>UL 508<br>JIS C8201-1 |

|                        |                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| Product Certifications | LROS (Lloyds register of shipping)[RETURN]DNV[RETURN]GL[RETURN]UL Listed[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              | 3389110889819                     |
| Returnability     | Yes                               |
| Country of origin | FR                                |

## Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Number of Units in Package 1 | 1                         |
| Package 1 Height             | 1.77 in (4.500 cm)        |
| Package 1 Width              | 1.34 in (3.400 cm)        |
| Package 1 Length             | 2.13 in (5.400 cm)        |
| Package 1 Weight             | 0.95 oz (27.000 g)        |
| Unit Type of Package 2       | S03                       |
| Number of Units in Package 2 | 300                       |
| Package 2 Height             | 11.81 in (30.000 cm)      |
| Package 2 Width              | 11.81 in (30.000 cm)      |
| Package 2 Length             | 15.75 in (40.000 cm)      |
| Package 2 Weight             | 18.59 lb(US) (8.432 kg)   |
| Unit Type of Package 3       | P06                       |
| Number of Units in Package 3 | 2400                      |
| Package 3 Height             | 29.53 in (75.000 cm)      |
| Package 3 Width              | 23.62 in (60.000 cm)      |
| Package 3 Length             | 31.50 in (80.000 cm)      |
| Package 3 Weight             | 166.35 lb(US) (75.456 kg) |

## Offer Sustainability

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                |
| 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>                                                          |

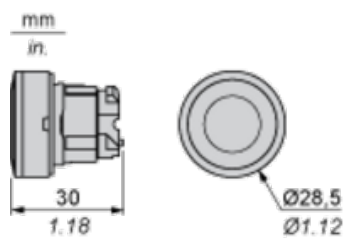
## Contractual warranty

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

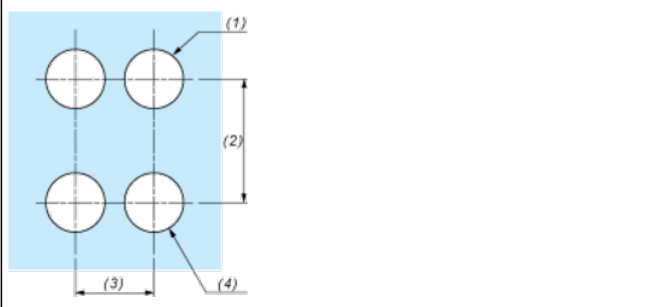
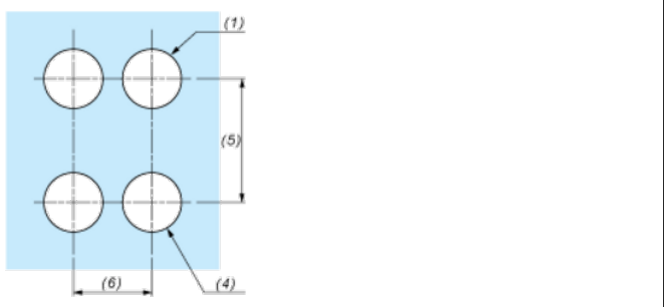
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Dimensions

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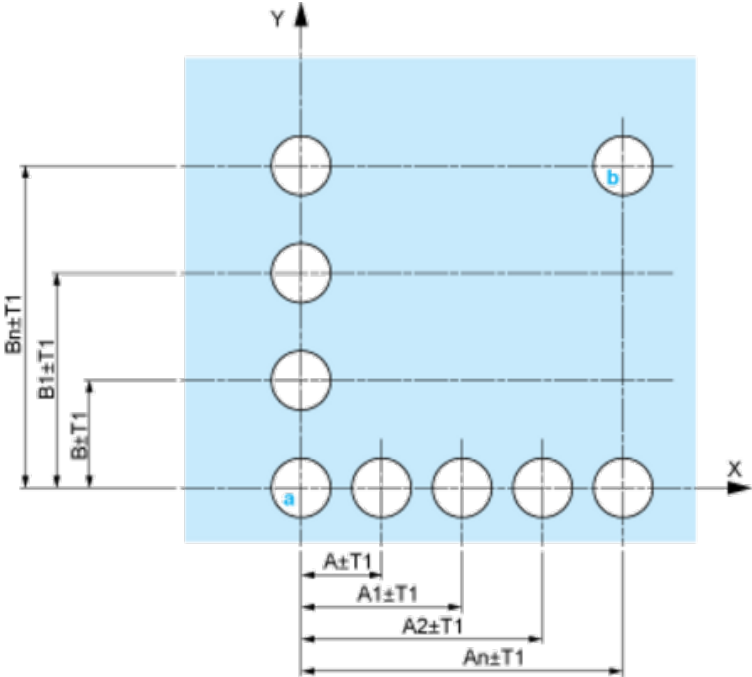


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| 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<br/>(2) 40 mm min. / 1.57 in. min.<br/>(3) 30 mm min. / 1.18 in. min.<br/>(4) <math>\varnothing 22.5 \text{ mm}</math> / 0.89 in. recommended (<math>\varnothing 22.3 \text{ mm}_0^{+0.4}</math> / <math>0.88 \text{ in.}_0^{+0.016}</math>)<br/>(5) 45 mm min. / 1.78 in. min.<br/>(6) 32 mm min. / 1.26 in. min.</p> |                                                                                    |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

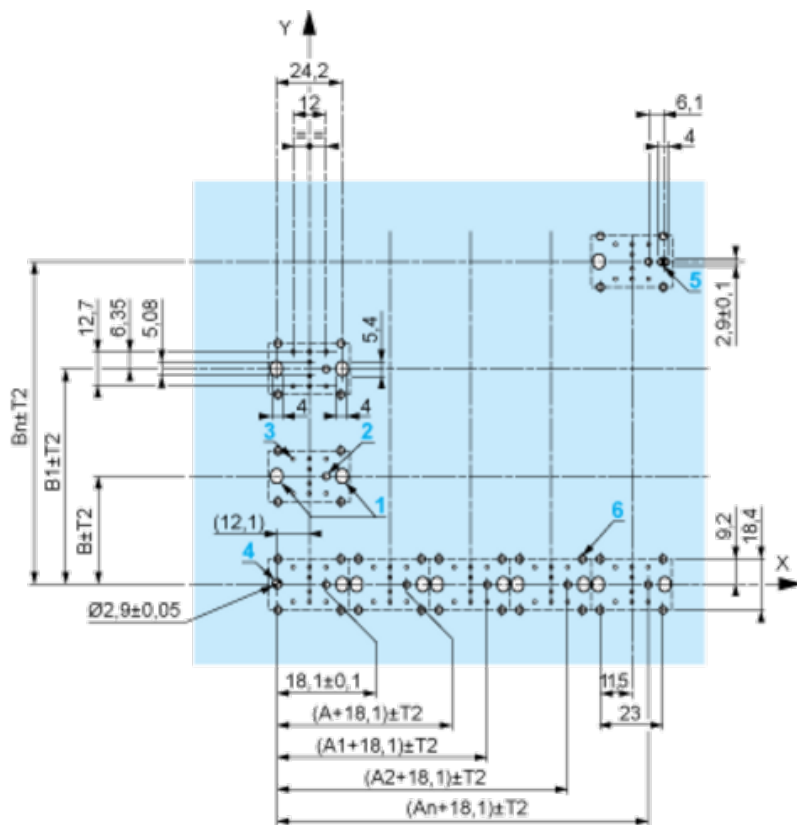
Panel Cut-outs (Viewed from Installer's Side)



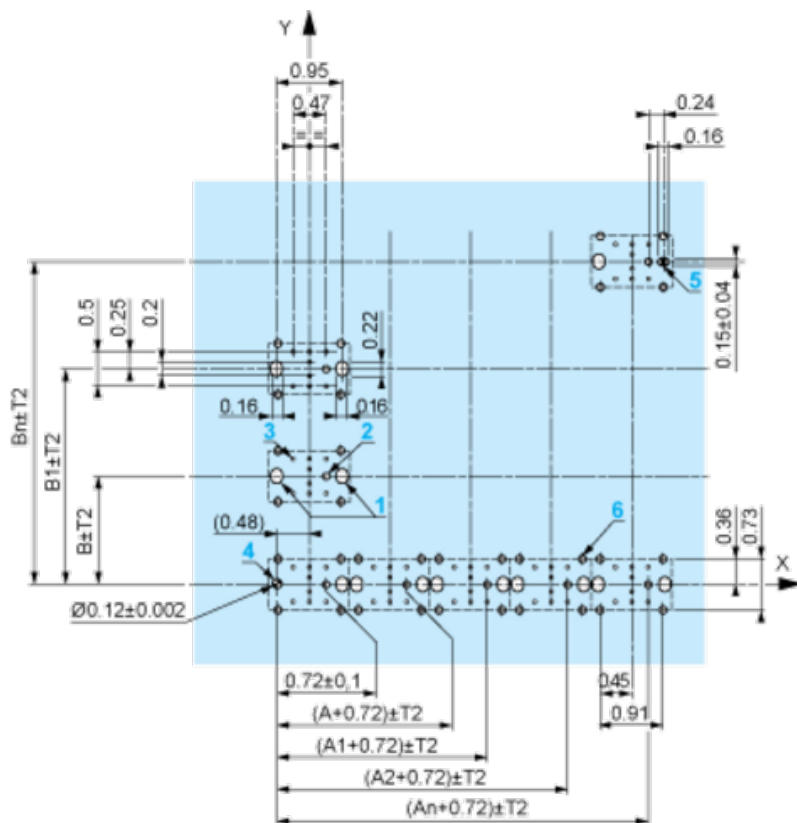
A: 30 mm min. / 1.18 in. min.  
B: 40 mm min. / 1.57 in. min.

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.

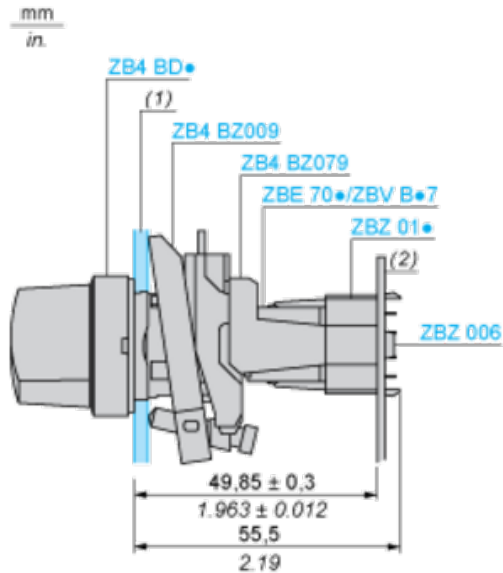
### General Tolerances of the Panel and Printed Circuit Board

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•

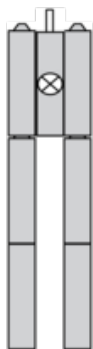
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ 01•
- 3 8  $\times$   $\varnothing$  1.2 mm / 0.05 in. holes
- 4 1 hole  $\varnothing$  2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  0.002, for aligning the printed 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•.

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Electrical Composition Corresponding to Codes M1 and M7

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Electrical Composition Corresponding to Codes M2 and M8

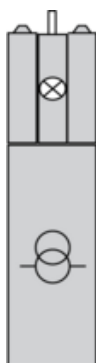
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Electrical Composition Corresponding to Codes M6 and P2

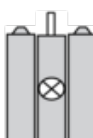
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Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2

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## Legend

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Single contact

Double contact

Light block

Possible location

