

## ZB4BS844

Harmony, 22mm Push Button, emergency stop head, trigger and latching turn release, red, 40 mm mushroom, unmarked



### Main

|                               |                                              |
|-------------------------------|----------------------------------------------|
| Range of Product              | Harmony XB4                                  |
| Product or Component Type     | Head for emergency switching off push-button |
| Device short name             | ZB4                                          |
| Bezel material                | Chromium plated metal                        |
| Mounting diameter             | 0.87 in (22 mm)                              |
| Sale per indivisible quantity | 1                                            |
| Shape of signaling unit head  | Round                                        |
| Type of operator              | Trigger action and mechanical latching       |
| Reset                         | Turn to release                              |
| Operator profile              | Red mushroom Ø 40 mm, unmarked               |
| Head type                     | Standard                                     |

### Complementary

|                             |                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width           | 1.57 in (40 mm)                                                                                                                                                             |
| CAD overall height          | 1.57 in (40 mm)                                                                                                                                                             |
| CAD overall depth           | 2.24 in (57 mm)                                                                                                                                                             |
| Net Weight                  | 0.16 lb(US) (0.073 kg)                                                                                                                                                      |
| Mechanical durability       | 300000 cycles                                                                                                                                                               |
| Electrical composition code | C7 4 single front mounting<br>C8 4 single and double front mounting<br>C11 3 single front mounting<br>C15 1 single front mounting<br>C10 4 single and double front mounting |
| 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)              |
| Electrical shock protection class     | Class I IEC 61140                       |
| IP degree of protection               | IP66 IEC 60529<br>IP69<br>IP69K         |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X<br>NEMA 4<br>NEMA 12 |
| IK degree of protection               | IK06 IEC 50102                          |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                        |                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards              | UL 508<br>EN/IEC 60947-5-5<br>CSA C22.2 No 14<br>EN/IEC 60947-5-4<br>JIS C8201-5-1<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60204-1<br>IEC 60364-5-53<br>GB 14048.5<br>EN/ISO 13850<br>JIS C8201-1 |
| Product Certifications | DNV<br>BV<br>CSA<br>LROS (Lloyds register of shipping)<br>UL Listed<br>GL                                                                                                                                 |
| 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                  | 3389110888867                       |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 2.68 oz (76 g)                      |
| Returnability         | Yes                                 |
| Country of origin     | CZ                                  |

## Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Package 1 Height             | 3.46 in (8.8 cm)          |
| Package 1 width              | 2.13 in (5.4 cm)          |
| Package 1 Length             | 1.73 in (4.4 cm)          |
| Unit Type of Package 2       | S03                       |
| Number of Units in Package 2 | 100                       |
| Package 2 Weight             | 17.85 lb(US) (8.097 kg)   |
| Package 2 Height             | 11.81 in (30 cm)          |
| Package 2 width              | 11.81 in (30 cm)          |
| Package 2 Length             | 15.75 in (40 cm)          |
| Unit Type of Package 3       | P06                       |
| Number of Units in Package 3 | 800                       |
| Package 3 Weight             | 165.36 lb(US) (75.004 kg) |
| Package 3 Height             | 30.31 in (77 cm)          |
| Package 3 width              | 23.62 in (60 cm)          |
| Package 3 Length             | 31.50 in (80 cm)          |

## 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                                                                                                                                                                                                                                                                                   |

|                            |                                               |
|----------------------------|-----------------------------------------------|
| RoHS exemption information | <a href="#">Yes</a>                           |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>        |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | <a href="#">End Of Life Information</a>       |

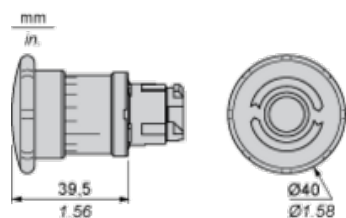
## Contractual warranty

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

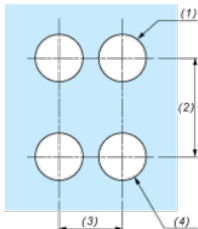
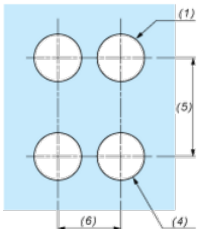
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Dimensions

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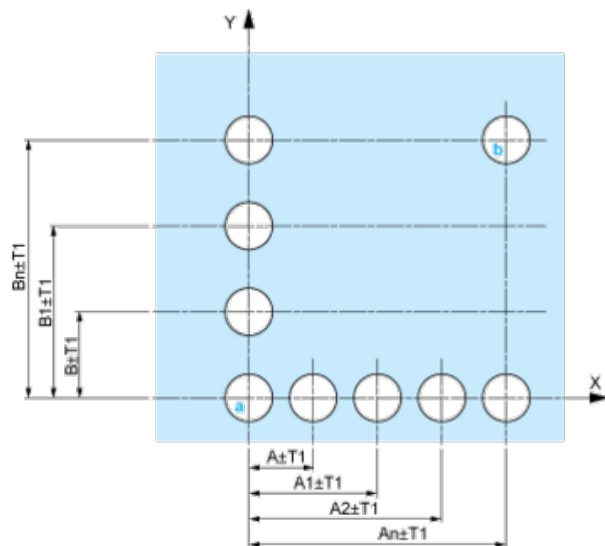


## Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

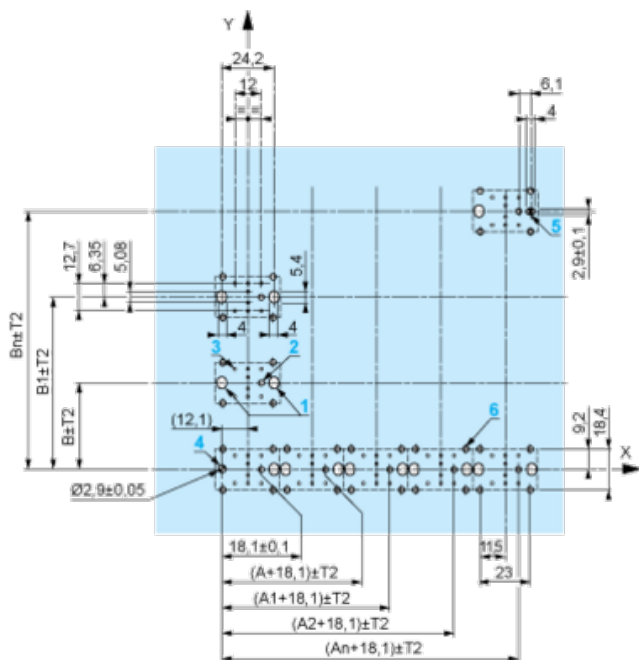


A: 30 mm min. / 1.18 in. min.

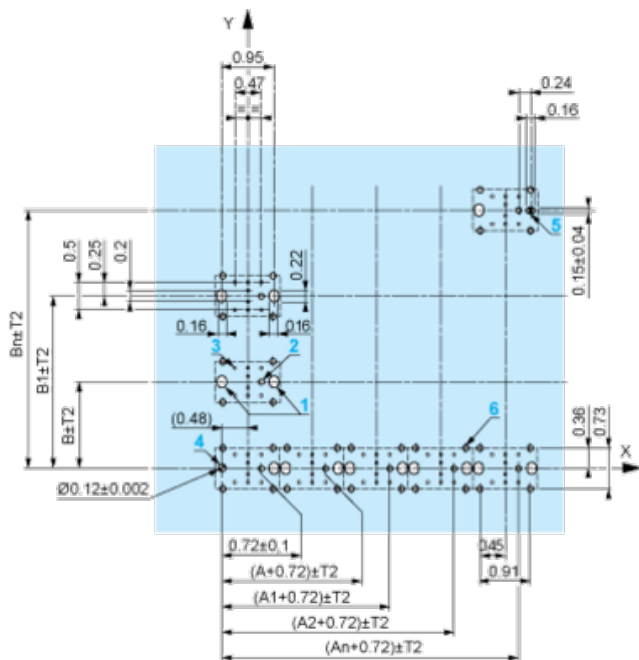
B: 40 mm min. / 1.57 in. min.

### 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.

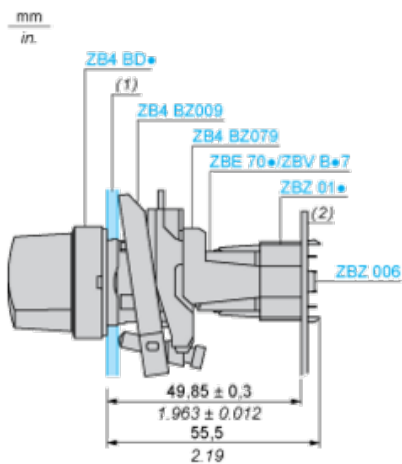
## General Tolerances of the Panel and Printed Circuit Board

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  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  for centring adapter ZBZ 01•
- 3 8 ×  $\varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$  holes
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$ , 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  $\varnothing 2.4 \text{ mm} / 0.09 \text{ in.}$  for clipping in adapter ZBZ 01•

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

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Electrical Composition Corresponding to Code C7

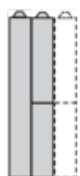
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Electrical Compositions Corresponding to Code C8

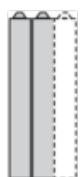
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Electrical Compositions Corresponding to Code C10

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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

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Electrical Composition Corresponding to Code C15

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1 N/O

1 N/C

1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C

## Legend

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Single contact

Double contact

Light block

Possible location

