

# ZB4BS844

red Ø40 Emergency stop pushbutton head Ø22  
trigger and latching turn release



## Main

|                               |                                        |
|-------------------------------|----------------------------------------|
| Commercial Status             | Commercialised                         |
| Range of product              | Harmony XB4                            |
| Product or component type     | Head for emergency stop pushbutton     |
| 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              | Trigger action and mechanical latching |
| Reset                         | Turn to release                        |
| Operator profile              | Red mushroom Ø 40 mm unmarked          |

## Complementary

|                             |                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width           | 40 mm                                                                                                                                                                                                                                                                                                                                    |
| CAD overall height          | 40 mm                                                                                                                                                                                                                                                                                                                                    |
| CAD overall depth           | 57 mm                                                                                                                                                                                                                                                                                                                                    |
| Product weight              | 0.073 kg                                                                                                                                                                                                                                                                                                                                 |
| Mechanical durability       | 300000 cycles                                                                                                                                                                                                                                                                                                                            |
| Electrical composition code | C10 for <= 4 contacts using single and double blocks in front mounting<br>C15 for 1 contacts using single blocks in front mounting<br>C11 for <= 3 contacts using single blocks in front mounting<br>C8 for <= 4 contacts using single and double blocks in front mounting<br>C7 for <= 4 contacts using single blocks in front mounting |

## Environment

|                                            |                                                                                                                                                                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                       | TH                                                                                                                                                                    |
| Ambient air temperature for storage        | -40...70 °C                                                                                                                                                           |
| Ambient air temperature for operation      | -25...70 °C                                                                                                                                                           |
| Class of protection against electric shock | Class I conforming to IEC 61140                                                                                                                                       |
| IP degree of protection                    | IP66 conforming to IEC 60529                                                                                                                                          |
| NEMA degree of protection                  | NEMA 12<br>NEMA 4<br>NEMA 4X<br>NEMA 13                                                                                                                               |
| IK degree of protection                    | IK03 conforming to IEC 50102                                                                                                                                          |
| Standards                                  | CSA C22-2 No 14<br>EN/IEC 60204-1<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-5<br>EN/ISO 13850<br>JIS C 4520<br>UL 508<br>GB 14048.5 |

The information provided in this documentation contains general descriptions and/or technical characteristics 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.

|                        |                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications | BV<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>RINA<br>UL listed                                                                    |
| Vibration resistance   | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6                                                                                                    |
| Shock resistance       | 50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27<br>30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27 |

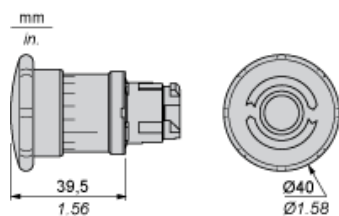
### Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|

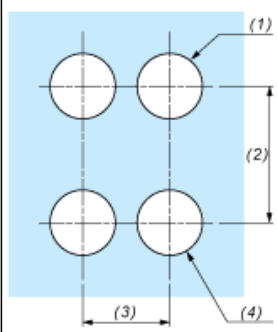
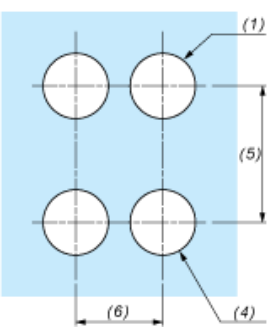
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Dimensions

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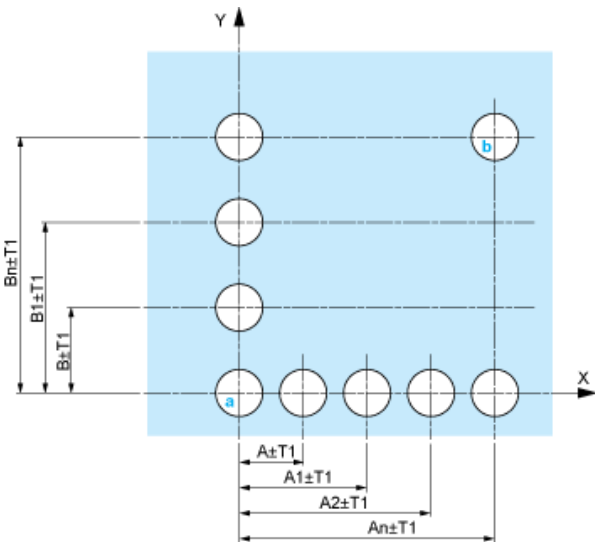


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| 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) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <math>_{0}^{+0.4}</math> / 0.88 in. <math>_{0}^{+0.016}</math>)<br/>(5) 45 mm min. / 1.78 in. min.<br/>(6) 32 mm min. / 1.26 in. min.</p> |                                                                                    |

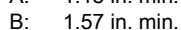
Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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



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

Dimensions in mm



The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

- 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•).





- (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 Code C7

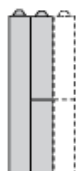
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Electrical Compositions Corresponding to Code C8

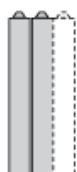
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Electrical Compositions Corresponding to Code C10

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

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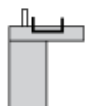


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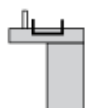
Electrical Composition Corresponding to Code C15

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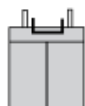
1 N/O



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

