



## 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             | 22 mm                                        |
| Sale per indivisible quantity | 1                                            |
| Shape of signaling unit head  | Round                                        |
| Type of operator              | Trigger action and mechanical latching       |
| Reset                         | Key release                                  |
| Operator profile              | Red mushroom Ø 40 mm, unmarked               |
| Type of keylock               | Ronis 3131A                                  |
| Key withdrawal position       | Center                                       |
| Head type                     | Standard                                     |

## Complementary

|                                    |                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                  | 40 mm                                                                                                                                                                                                                                                                                                                             |
| CAD overall height                 | 40 mm                                                                                                                                                                                                                                                                                                                             |
| CAD overall depth                  | 79 mm                                                                                                                                                                                                                                                                                                                             |
| Net weight                         | 0.098 kg                                                                                                                                                                                                                                                                                                                          |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m                                                                                                                                                                                                                                                                                             |
| Mechanical durability              | 300000 cycles                                                                                                                                                                                                                                                                                                                     |
| Electrical composition code        | C7 for <4 contacts using single blocks in front mounting<br>C8 for <4 contacts using single and double blocks in front mounting<br>C11 for <3 contacts using single blocks in front mounting<br>C15 for <1 contacts using single blocks in front mounting<br>C10 for <4 contacts using single and double blocks in front mounting |
| Device presentation                | Basic element                                                                                                                                                                                                                                                                                                                     |

## Environment

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Protective treatment                  | TH                                                    |
| Ambient air temperature for storage   | -40...70 °C                                           |
| Ambient air temperature for operation | -40...70 °C                                           |
| Electrical shock protection class     | Class I conforming to IEC 61140                       |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67<br>IP69<br>IP69K |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X<br>NEMA 4<br>NEMA 12               |
| IK degree of protection               | IK03 conforming to IEC 50102                          |

|                        |                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards              | EN/IEC 60204-1<br>UL 508<br>IEC 60364-5-53<br>EN/IEC 60947-5-5<br>GB 14048.5<br>EN/IEC 60947-5-1<br>EN/ISO 13850<br>CSA C22.2 No 14<br>JIS C8201-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-1<br>JIS C8201-1 |
| Product certifications | UL listed<br>BV<br>GL<br>LROS (Lloyds register of shipping)<br>DNV<br>RINA<br>CSA                                                                                                                         |
| Vibration resistance   | 5 gn (f= 2...500 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<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27                            |

### Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.098 kg |
| Package 1 Height | 0.880 dm |
| Package 1 width  | 0.440 dm |
| Package 1 Length | 0.540 dm |

### Offer Sustainability

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                          |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                              |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a> |
| 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>                                                        |

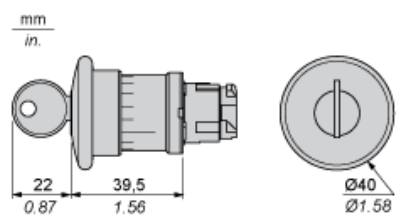
### Contractual warranty

|          |           |
|----------|-----------|
| 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<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.

### 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•

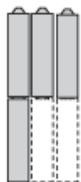
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  for centring adapter ZBZ 01•
- 3 8 ×  $\varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$  holes
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$ ,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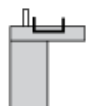


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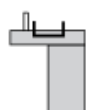
Electrical Composition Corresponding to Code C15

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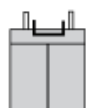
1 N/O



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

