

Product availability: Non-Stock - Not normally stocked in distribution facility



### Main

|                                 |                              |
|---------------------------------|------------------------------|
| Range of product                | Harmony XB4                  |
| Product or component type       | Head for selector switch     |
| Device short name               | ZB4                          |
| Bezel material                  | Chromium plated metal        |
| Mounting diameter               | 0.87 in (22 mm)              |
| Head type                       | Standard                     |
| Sale per indivisible quantity   | 1                            |
| Shape of signaling unit head    | Round                        |
| Type of operator                | Stay put                     |
| Operator profile                | Black long handle            |
| Operator additional information | Padlockable                  |
| Operator position information   | 3 positions +/- 45°          |
| Locking position                | On the left or in the center |

### Complementary

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                  | 1.14 in (29 mm)                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CAD overall height                 | 1.5 in (38 mm)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CAD overall depth                  | 1.97 in (50 mm)                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product weight                     | 0.11 lb(US) (0.048 kg)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m                                                                                                                                                                                                                                                                                                                                                                             |
| Mechanical durability              | 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Electrical composition code        | C11 3 contacts using single blocks in front mounting<br>C7 4 contacts using single blocks in front mounting<br>C8 4 contacts using single and double blocks in front mounting<br>C4 6 contacts using single and double blocks in front mounting<br>C5 for 5 contacts using single blocks in front mounting<br>C6 for 5 contacts using single and double blocks in front mounting<br>C3 6 contacts using single blocks in front mounting |

### 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 conforming to IEC 60536                                                                                       |
| IP degree of protection               | IP69<br>IP67 conforming to IEC 60529<br>IP69K                                                                         |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                    |
| IK degree of protection               | IK06 conforming to IEC 50102                                                                                          |
| Standards                             | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-5<br>JIS C 4520<br>UL 508<br>CSA C22.2 No 14 |

|                        |                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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       | 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27 |

### Ordering and shipping details

|                       |                                     |
|-----------------------|-------------------------------------|
| Category              | 22468 - PUSHBUTTONS,22MM(METAL) NEW |
| Discount Schedule     | CS2                                 |
| GTIN                  | 003389110173581                     |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 8.999999999999997E-2                |
| Returnability         | N                                   |
| Country of origin     | FR                                  |

### Offer Sustainability

|                           |                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------|
| California proposition 65 | WARNING: This product can expose you to chemicals including:                                                               |
| ----- Substance 1         | Nickel compounds, which is known to the State of California to cause cancer, and                                           |
| ----- Substance 2         | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| ----- More information    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

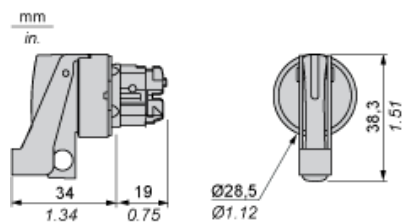
### Contractual warranty

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

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Dimensions

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Shank max.: 6.35 mm / 0.25 in.

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 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                                                                                                                                                                                                                                                                                                                             |                                 |
| <div> (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. </div> |                                 |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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



### 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 C3

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Electrical Composition Corresponding to Code C4

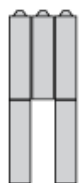
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Electrical Composition Corresponding to Code C5

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Electrical Composition Corresponding to Code C6

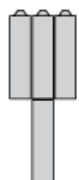
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Electrical Composition Corresponding to Code C7

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Electrical Composition Corresponding to Code C8



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



Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



|          |          |      |        |        |      |
|----------|----------|------|--------|--------|------|
| Push     | Position | Top  |        |        |      |
| Bottom   |          |      |        |        |      |
| Location |          | Left | Centre | Right  |      |
| State    |          | 1    | 1      | 0      |      |
| Contacts | N/O      |      | closed | closed | open |
| N/C      |          | open | open   | closed |      |

## Position 0°



|          |          |        |        |        |      |
|----------|----------|--------|--------|--------|------|
| Push     | Position | Top    |        |        |      |
| Bottom   |          |        |        |        |      |
| Location |          | Left   | Centre | Right  |      |
| State    |          | 0      | 0      | 0      |      |
| Contacts | N/O      |        | open   | open   | open |
| N/C      |          | closed | closed | closed |      |

## Position 45°



|          |          |        |        |        |        |
|----------|----------|--------|--------|--------|--------|
| Push     | Position | Top    |        |        |        |
| Bottom   |          |        |        |        |        |
| Location |          | Left   | Centre | Right  |        |
| State    |          | 0      | 1      | 1      |        |
| Contacts | N/O      |        | open   | closed | closed |
| N/C      |          | closed | open   | open   |        |

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