

# Product data sheet

Specifications



Harmony XB4, Illuminated selector switch head, metal, orange, Ø22, integral LED, 2 positions, stay put

ZB4BK1253

Product availability : Stock - Normally stocked in distribution facility

## Main

|                               |                                      |
|-------------------------------|--------------------------------------|
| Range of Product              | Harmony XB4                          |
| Product or Component Type     | Head for illuminated selector switch |
| Product Compatibility         | Integral LED                         |
| Device short name             | ZB4                                  |
| 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              | stay put                             |
| Operator profile              | Orange standard handle               |
| Operator position information | 2 positions 90°                      |

## Complementary

|                                    |                                                                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                  | 1.14 in (29 mm)                                                                                                                                                                                      |
| CAD overall height                 | 1.14 in (29 mm)                                                                                                                                                                                      |
| CAD overall depth                  | 1.69 in (43 mm)                                                                                                                                                                                      |
| Product Weight                     | 0.08 lb(US) (0.036 kg)                                                                                                                                                                               |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m                                                                                                                                                        |
| Mechanical durability              | 1000000 cycles                                                                                                                                                                                       |
| Electrical composition code        | M3 4 single front mounting integral LED<br>M6 2 single front mounting integral LED and transformer<br>M10 2 single front mounting integral LED<br>M4 4 single and double front mounting integral LED |
| Device presentation                | Basic element                                                                                                                                                                                        |

## Environment

|                                     |                            |
|-------------------------------------|----------------------------|
| Protective treatment                | TH                         |
| Ambient Air Temperature for Storage | -40...158 °F (-40...70 °C) |

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|                                       |                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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 50102                                                                                                                          |
| Standards                             | CSA C22.2 No 14<br>JIS C8201-5-1<br>EN/IEC 60947-5-5<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>UL 508<br>JIS C8201-1 |
| Product Certifications                | UL Listed<br>GL<br>DNV<br>LROS (Lloyds register of shipping)<br>BV<br>CSA                                                               |
| 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                  | 3389110890457                     |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 1.45 oz (41.0 g)                  |
| Returnability         | Yes                               |
| Country of origin     | FR                                |

### Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Package 1 Height             | 1.97 in (5 cm)            |
| Package 1 width              | 2.05 in (5.2 cm)          |
| Package 1 Length             | 1.30 in (3.3 cm)          |
| Unit Type of Package 2       | P06                       |
| Number of Units in Package 2 | 2000                      |
| Package 2 Weight             | 212.09 lb(US) (96.204 kg) |
| Package 2 Height             | 30.31 in (77 cm)          |
| Package 2 width              | 31.50 in (80 cm)          |
| Package 2 Length             | 23.62 in (60 cm)          |
| Unit Type of Package 3       | S03                       |
| Number of Units in Package 3 | 250                       |
| Package 3 Weight             | 23.59 lb(US) (10.702 kg)  |
| Package 3 Height             | 11.81 in (30 cm)          |
| Package 3 width              | 11.81 in (30 cm)          |

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|                  |                  |
|------------------|------------------|
| Package 3 Length | 15.75 in (40 cm) |
|------------------|------------------|

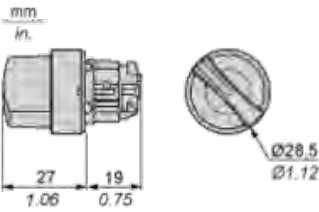
### Offer Sustainability

|                            |                                                                                                                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 P65Warnings website |
| 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)<br><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>                                                                                                                                                                                                |

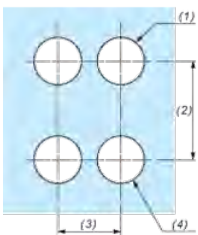
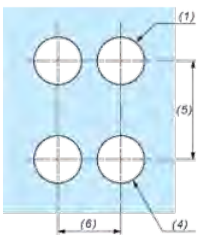
### Contractual warranty

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

Dimensions

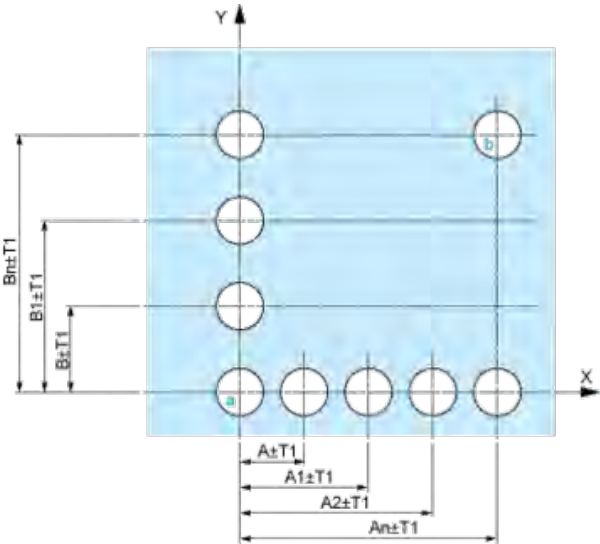


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| 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</div> <div>(2) 40 mm min. / 1.57 in. min.</div> <div>(3) 30 mm min. / 1.18 in. min.</div> <div>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <sup>+0.4</sup><sub>0</sub> / 0.88 in. <sup>+0.016</sup><sub>0</sub>)</div> <div>(5) 45 mm min. / 1.78 in. min.</div> <div>(6) 32 mm min. / 1.26 in. min.</div> |                                                                                    |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

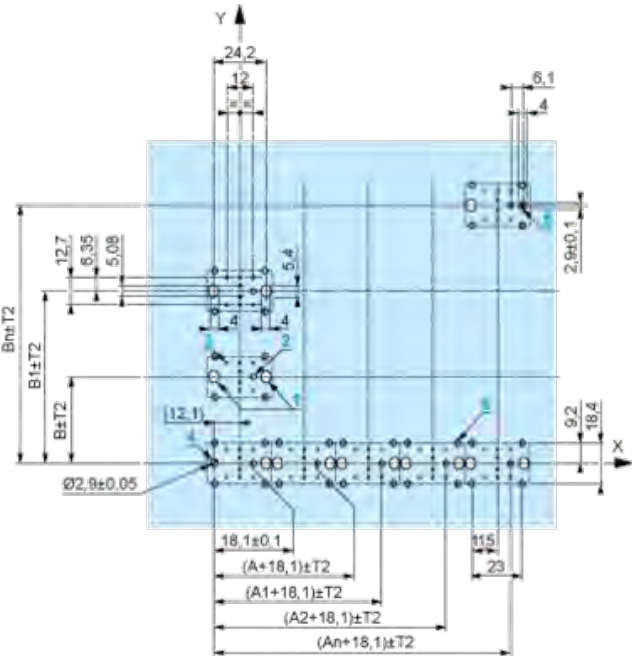
Panel Cut-outs (Viewed from Installer's Side)



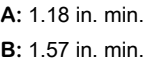
- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



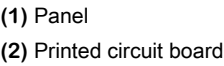
- A: 30 mm min.
  - B: 40 mm min.
- Dimensions in in.



The cumulative tolerance must not exceed 0.3 mm / 0.012 in:  $T1 + T2 = 0.3 \text{ mm max.}$

- 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•).

The fixing centers marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.



- 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  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  holes for centring adapter ZBZ 01•.

Electrical Composition Corresponding to Code M3

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Electrical Composition Corresponding to Code M4

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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



Legend

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Single contact



Double contact



Light block



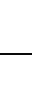
Possible location



Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



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

Position 45°



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