



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 |

Complementary

| | |
|------------------------------------|---|
| CAD overall width | 1.14 in (29 mm) |
| CAD overall height | 1.14 in (29 mm) |
| CAD overall depth | 1.77 in (45 mm) |
| Net Weight | 0.06 lb(US) (0.026 kg) |
| Overvoltage category | Class I IEC 60536 |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m |
| Shape of signaling unit head | Round |
| Type of operator | Stay put |
| Operator profile | Black toggle switch |
| Operator position information | 2 positions 90° |
| Mechanical durability | 500000 cycles |
| Electrical composition code | C11 3 single front mounting C12 6 single front mounting C15 1 single front mounting C13 6 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) |
| IP degree of protection | IP69 IEC 60529 IP69K |
| NEMA degree of protection | NEMA 13 NEMA 4X |
| IK degree of protection | IK06 conforming to IEC 50102 |
| Standards | UL 508 EN/IEC 60947-5-4 CSA C22.2 No 14 JIS C8201-5-1 EN/IEC 60947-1 EN/IEC 60947-5-5 EN/IEC 60947-5-1 JIS C8201-1 |

| | |
|------------------------|--|
| Product certifications | CSA UL Listed BV GL RINA LROS (Lloyds register of shipping) DNV |
| 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 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |

Ordering and shipping details

| | |
|-----------------------|-------------------------------------|
| Category | 22468 - PUSHBUTTONS,22MM(METAL) NEW |
| Discount Schedule | CS2 |
| GTIN | 00785901380320 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.07 lb(US) (0.03 kg) |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

| | |
|------------------------|------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.85 in (4.7 cm) |
| Package 1 width | 2.13 in (5.4 cm) |
| Package 1 Length | 1.42 in (3.6 cm) |

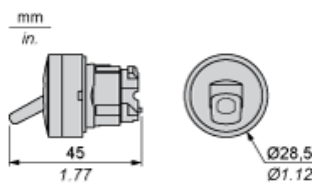
Offer Sustainability

| | |
|----------------------------|---|
| 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 www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

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> <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 mm₀^{+0.4} / 0.88 in. ₀^{+0.016})</div> <div>(5) 45 mm min. / 1.78 in. min.</div> <div>(6) 32 mm min. / 1.26 in. min.</div> </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•

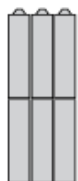
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$ for centring adapter ZBZ 01•
- 3 8 × $\varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$ holes
- 4 1 hole $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$, for aligning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

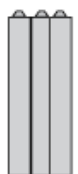
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Electrical Composition Corresponding to Code C12

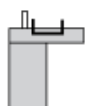


Electrical Composition Corresponding to Code C13

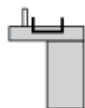


Electrical Composition Corresponding to Code C15

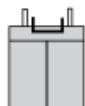
1 N/O



1 N/C



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



Legend

Single contact



Double contact



Light block



Possible location

