# **ZB4BJ792**



### 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                | Spring return left to centre |
| Operator profile                | Black long handle            |
| Operator additional information | Padlockable                  |
| Operator position information   | 3 positions +/- 45°          |
| Locking position                | On the right                 |

## 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 for 3 contacts using single blocks in front mounting C7 for 4 contacts using single blocks in front mounting C8 for 4 contacts using single and double blocks in front mounting C4 6 contacts using single and double blocks in front mounting C5 for 5 contacts using single blocks in front mounting C6 for 5 contacts using single and double blocks in front mounting C3 6 contacts using single blocks in front mounting |  |

### **Environment**

| protective treatment                  | TH  |  |
|---------------------------------------|---|--|
| ambient air temperature for storage   | -40158 °F (-4070 °C)  |  |
| ambient air temperature for operation | -40158 °F (-4070 °C)  |  |
| overvoltage category                  | Class I conforming to IEC 60536   |  |
| IP degree of protection               | IP67 conforming to IEC 60529<br>IP69K<br>IP69   |  |
| 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 CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed   |  |

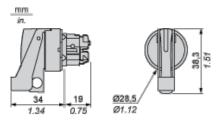
## Offer Sustainability

| •   |   |
|---|---|
| WARNING: This product can expose you to chemicals including:  | WARNING: This product can expose you to chemicals including:  |
| Nickel compounds, which is known to the State of California to cause cancer, and  | Nickel compounds, which is known to the State of California to cause cancer, and  |
| Di-isodecyl phthalate (DIDP), which is known to the Stat of California to cause birth defects or other reproductive harm. | eDi-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   | For more information go to www.p65warnings.ca.gov   |

### Contractual warranty

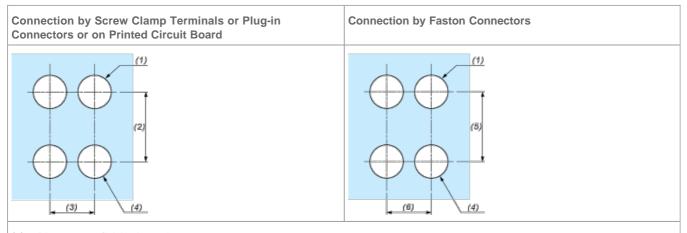
| Warranty period 18 months |  |
|---------------------------|--|
|---------------------------|--|

### **Dimensions**



Shank max.: 6.35 mm / 0.25 in.

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

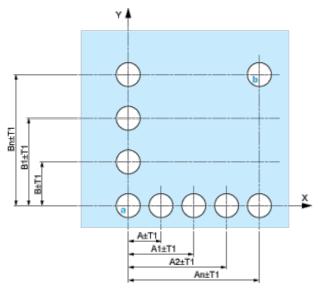


- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- **(4)** Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0^{+0.4}$  / 0.88 in.  $_0^{+0.016}$ )
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

# Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

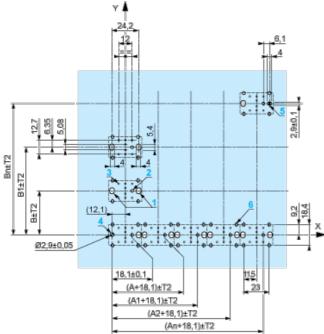




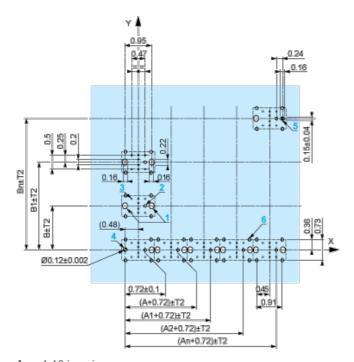
A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

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

Dimensions in mm



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



**A:** 1.18 in. min. **B:** 1.57 in. min.

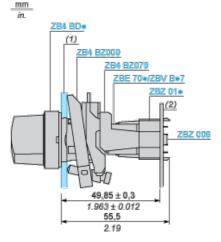
#### **General Tolerances of the Panel and Printed Circuit Board**

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

#### **Installation Precautions**

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB4 BZ009: ± 2°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
- 1 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- $\mathbf{3.8 \times \varnothing}$  1.2 mm / 0.05 in. holes
- 4 1 hole Ø 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 Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•



| Electrical Composition Corresponding to Code C3 |
|---|
|   |
| Electrical Composition Corresponding to Code C4 |
|   |
| Electrical Composition Corresponding to Code C5 |
|   |
| Electrical Composition Corresponding to Code C6 |
|   |
| Electrical Composition Corresponding to Code C7 |
|   |

**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 | Тор    |        |        |             |
|----------|----------|--------|--------|--------|-------------|
|          |          | Bottom |        |        | $\triangle$ |
|          | Location |        | Left   | Centre | Right       |
|          | State    |        | 1      | 1      | 0           |
| Contacts | N/O      |        | closed | closed | open        |
|          | N/C      |        | open   | open   | closed      |

## Position 0°





|          | Location | Left   | Centre | Right  |
|----------|----------|--------|--------|--------|
|          | State    | 0      | 0      | 0      |
| Contacts | N/O      | open   | open   | open   |
|          | N/C      | closed | closed | closed |

## Position 45°



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