Product datasheet

Specifications





black selector switch head Ø22 3-position spring return

Local distributor code:
237091196

ZB4BJ7

EAN Code: 3389110889109

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 | 22 mm | |
| Head Type | Standard | |
| Sale Per Indivisible Quantity | 1 | |
| Shape Of Signaling Unit Head | Round | |
| Type Of Operator | Left to centre spring return | |
| Operator Profile | Black long handle | |
| Operator Additional Information | Non padlockable | |
| Operator Position Information | 3 positions +/- 45° | |

Complementary

| Cad Overall Width | 29 mm |
|---------------------------------------|--|
| Cad Overall Height | 38 mm |
| Cad Overall Depth | 44 mm |
| Net Weight | 0.04 kg |
| Resistance To High Pressure Washer | 7000000 Pa at 55 °C, distance : 0.1 m |
| Mechanical Durability | 1000000 cycles |
| Electrical Composition Code | C3 for <6 contacts using single blocks in front mounting C4 for <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 C7 for <4 contacts using single blocks in front mounting C8 for <4 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting |
| Device Presentation | Basic element |

Environment

| Protective Treatment | тн |
|--|---------------------------------|
| Ambient Air Temperature For Storage | -4070 °C |
| Ambient Air Temperature For Operation | -4070 °C |
| Overvoltage Category | Class I conforming to IEC 60536 |

| Ip Degree Of Protection | IP67 conforming to IEC 60529 IP69 IP69K |
|---------------------------|---|
| Nema Degree Of Protection | NEMA 13 NEMA 4X |
| Ik Degree Of Protection | IK06 conforming to IEC 50102 |
| Standards | JIS C8201-5-1 IEC 60947-5-4 IEC 60947-5-5 UL 508 IEC 60947-1 CSA C22.2 No 14 IEC 60947-5-1 JIS C8201-1 |
| Product Certifications | UL listed CSA LROS (Lloyds register of shipping) DNV GL BV |
| Vibration Resistance | 5 gn (f= 2500 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 |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|------------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 5.000 cm |
| Package 1 Width | 3.500 cm |
| Package 1 Length | 5.000 cm |
| Package 1 Weight | 45.000 g |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 250 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 11.769 kg |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 2000 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 102.152 kg |
| | |

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

| ⊘ | Reach Free Of Svhc | |
|----------|----------------------------|-----|
| ② | Toxic Heavy Metal Free | |
| 9 | Mercury Free | |
| ⊘ | Rohs Exemption Information | Yes |

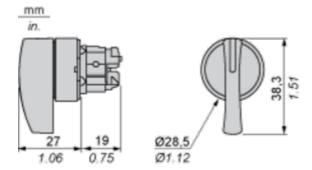
Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|--|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

ZB4BJ7

Dimensions Drawings

Dimensions



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Mounting and Clearance

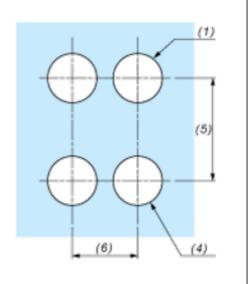
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connectors or on Printed Circuit Board

(1)

Connection by Screw Clamp Terminals or Plug-in

Connection by Faston Connectors



(1) Diameter on finished panel or support

(3)

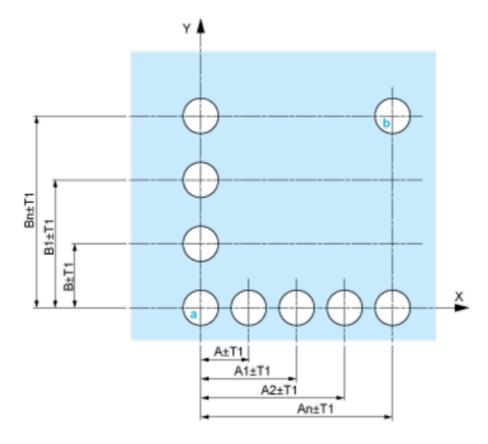
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)

(4)

- (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

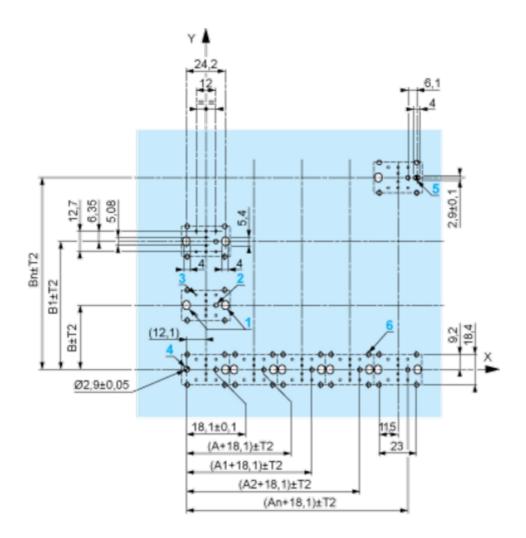
Panel Cut-outs (Viewed from Installer's Side)



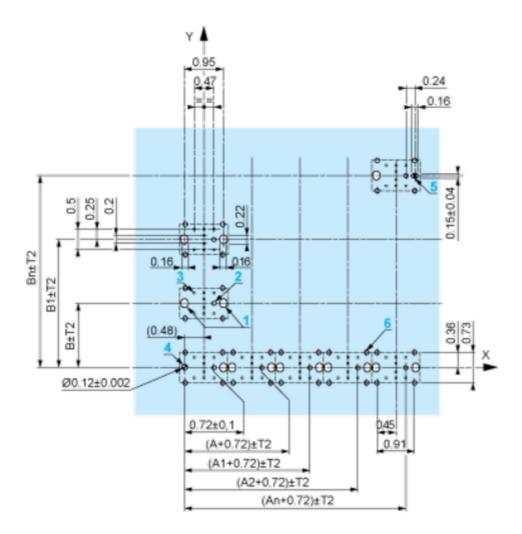
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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

Dimensions in mm



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 mm max.

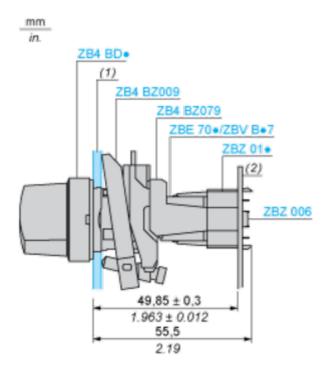
Installation Precautions

- $_{\bullet}$ 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:
 - $_{\circ}~$ every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o with each selector switch head (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

The fixing centers marked ${\bf a}$ and ${\bf b}$ are diagonally opposed and must align with those marked ${\bf 4}$ and ${\bf 5}$.

5 May 2024

ZB4BJ7



- (1) Panel
- (2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

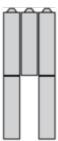
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the \emptyset 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.

Technical Description

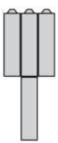


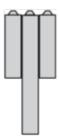






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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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

Position 0°



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

Position 45°



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