

selector switch head Ø22 3-position spring return Key 458A

ZB4BG08107

- ! Discontinued on: Dec 2, 2020
- ! End-of-service on: Dec 31, 2020

① Discontinued

Main

| Range Of Product | Harmony XB4 | | |
|-------------------------------|------------------------------|--|--|
| Product Or Component Type | Head for key selector switch | | |
| Device Short Name | ZB4 | | |
| Bezel Material | Black metal | | |
| Mounting Diameter | 0.87 in (22 mm) | | |
| Sale Per Indivisible Quantity | 1 | | |
| Shape Of Signaling Unit Head | Round | | |
| Return | Right to centre | | |
| Operator Profile | Black key switch | | |
| Type Of Operator | Spring return | | |
| Operator Position Information | 3 positions +/- 45° | | |
| Type Of Keylock | Key 458A | | |
| Key Withdrawal Position | Left | | |

Complementary

| Cad Overall Width | 1.14 in (29 mm) | | |
|---------------------------------------|--|--|--|
| Cad Overall Height | 1.14 in (29 mm) | | |
| Cad Overall Depth | 2.83 in (72 mm) | | |
| Net Weight | 0.22 lb(US) (0.098 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 | C3 6 single front mounting C4 6 single and double front mounting C5 5 single front mounting C6 5 single and double front mounting C7 4 single front mounting C8 4 single and double front mounting C11 3 single front mounting | | |
| Device Presentation | Basic element | | |

Environment

| Protective Treatment | TH |
|-------------------------------------|----------------------|
| Ambient Air Temperature For Storage | -40158 °F (-4070 °C) |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| Ambient Air Temperature For Operation | -40158 °F (-4070 °C) | | | |
|---------------------------------------|---|--|--|--|
| Overvoltage Category | Class I IEC 60536 | | | |
| Ip Degree Of Protection | IP66 IEC 60529 IP67 IP69 IP69K | | | |
| Nema Degree Of Protection | NEMA 13 NEMA 4X | | | |
| Standards | GB 14048.5 EN/IEC 60947-5-4 EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-5 UL 508 CSA C22.2 No 14 | | | |
| Product Certifications | UL Listed GL BV CSA DNV LROS (Lloyds register of shipping) | | | |
| Vibration Resistance | 5 gn 2500 Hz)IEC 60068-2-6 | | | |
| Shock Resistance | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27 50 gn 11 ms) half sine wave acceleration IEC 60068-2-27 | | | |

Ordering and shipping details

Gtin 3389110832310

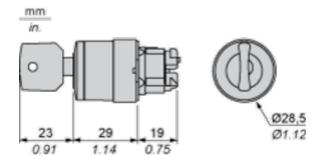
Contractual warranty

Warranty 18 months

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Dimensions Drawings

Dimensions



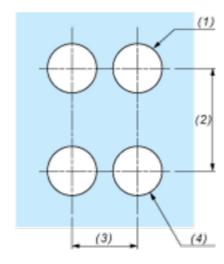
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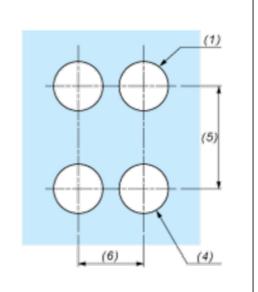
Mounting and Clearance

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

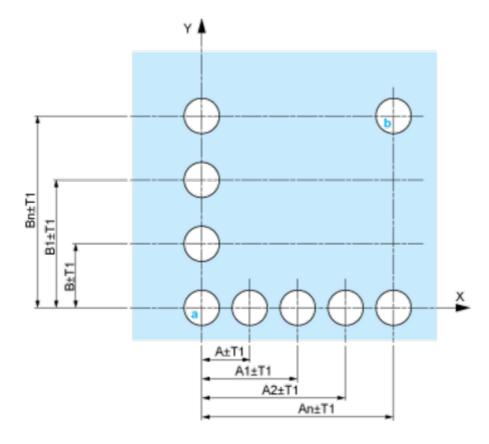




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

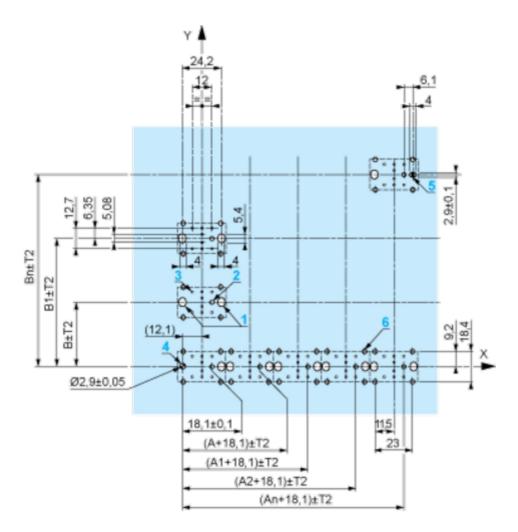
Panel Cut-outs (Viewed from Installer's Side)



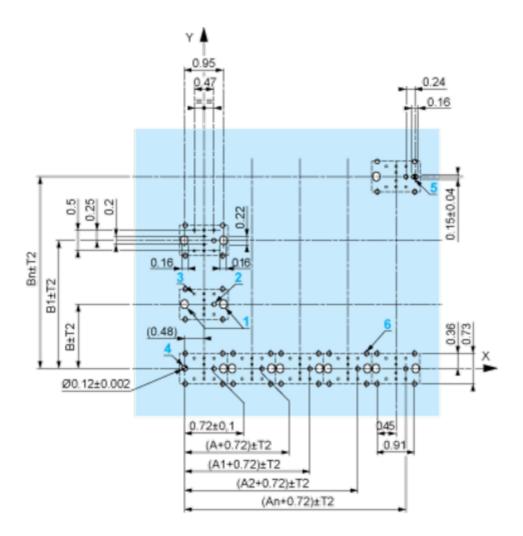
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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

Dimensions in mm



A: 30 mm min. **B:** 40 mm min.



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

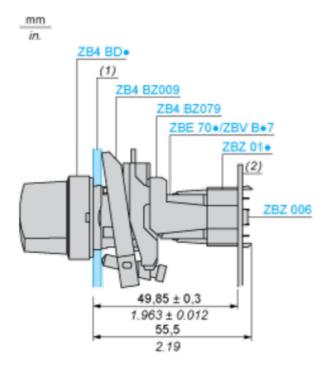
General Tolerances of the Panel and Printed Circuit Board

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 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 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•

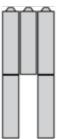
Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.

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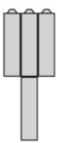
Technical Description



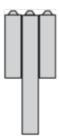








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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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

Position 0°



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

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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 |