ZB4BG012

Head for key selector switch, Harmony XB4, black key, 22mm, 3 positions, key withdrawal in any position, key 421E





Main

| Range of Product | Harmony XB4 |
|-------------------------------|------------------------------|
| Product or Component Type | Head for key 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 |
| Operator profile | Black key switch |
| Type of operator | Stay put |
| Operator position information | 3 positions +/- 45° |
| Type of keylock | Key 421E |
| Key withdrawal position | In any position |

Complementary

| Device presentation | Basic element | | | |
|------------------------------------|---|--|--|--|
| | C11 3 single front mounting | | | |
| | C8 4 single and double front mounting | | | |
| | C7 4 single front mounting | | | |
| | C6 5 single and double front mounting | | | |
| | C5 5 single front mounting | | | |
| , | C4 6 single and double front mounting | | | |
| Electrical composition code | C3 6 single front mounting | | | |
| Mechanical durability | 1000000 cycles | | | |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m | | | |
| Net Weight | 0.22 lb(US) (0.098 kg) | | | |
| CAD overall depth | 2.83 in (72 mm) | | | |
| CAD overall height | 1.14 in (29 mm) | | | |
| CAD overall width | 1.14 in (29 mm) | | | |

Environment

| TH |
|---|
| -40158 °F (-4070 °C) |
| -40158 °F (-4070 °C) |
| Class I IEC 60536 |
| IP66 IEC 60529 IP67 IP69 IP69K |
| NEMA 13 NEMA 4X |
| - |

| Standards | EN/IEC 60947-5-5 | |
|------------------------|---|--|
| | UL 508 | |
| | EN/IEC 60947-5-4 | |
| | CSA C22.2 No 14 | |
| | GB 14048.5 | |
| | EN/IEC 60947-5-1 | |
| | EN/IEC 60947-1 | |
| Product Certifications | BV | |
| | GL | |
| | DNV | |
| | LROS (Lloyds register of shipping) | |
| | UL Listed | |
| | CSA | |
| 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

| are a sure a sure property | | | |
|----------------------------|-----------------------------------|--|--|
| Category | 22468-PUSHBUTTONS,22MM(METAL) NEW | | |
| Discount Schedule | CS2 | | |
| GTIN | 3389110121001 | | |
| Returnability | Yes | | |
| Country of origin | FR | | |

Packing Units

| . doming office | |
|------------------------------|--------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.10 in (5.334 cm) |
| Package 1 Width | 1.40 in (3.556 cm) |
| Package 1 Length | 3.40 in (8.636 cm) |
| Package 1 Weight | 3.52 oz (99.791 g) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 5 |
| Package 2 Height | 3.39 in (8.6 cm) |
| Package 2 Width | 10.24 in (26 cm) |
| Package 2 Length | 1.30 in (3.3 cm) |
| Package 2 Weight | 18.34 oz (520 g) |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 100 |
| Package 3 Height | 11.81 in (30 cm) |
| Package 3 Width | 11.81 in (30 cm) |
| Package 3 Length | 15.75 in (40 cm) |
| Package 3 Weight | 24.38 lb(US) (11.058 kg) |
| | |

Offer Sustainability

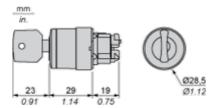
| Sustainable offer status | Green Premium product | | |
|----------------------------|---|--|--|
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov | | |
| REACh Regulation | REACh Declaration | | |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) | | |
| Mercury free | Yes | | |
| China RoHS Regulation | China RoHS Declaration | | |
| RoHS exemption information | €Yes | | |
| Environmental Disclosure | Product Environmental Profile | | |
| Circularity Profile | End Of Life Information | | |

Warranty 18 months

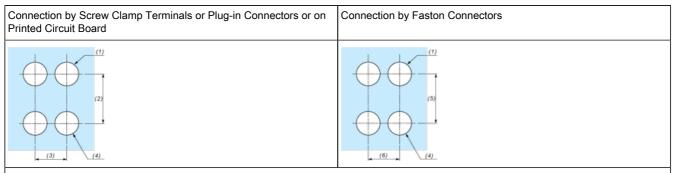
Product data sheet Dimensions Drawings

ZB4BG012

Dimensions



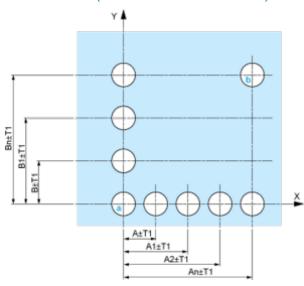
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)



- (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)

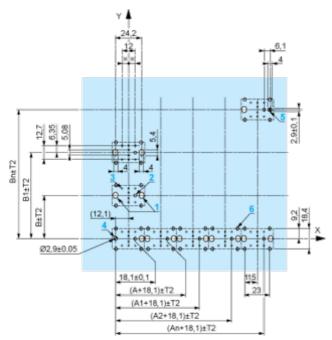


A: 30 mm min. / 1.18 in. min.

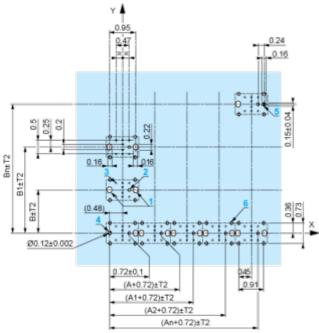
B: 40 mm min. / 1.57 in. min.

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

Dimensions in mm



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



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

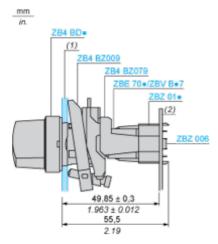
General Tolerances of the Panel and Printed Circuit Board

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

Installation Precautions

- 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:
 - $\circ\quad$ 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•
- 38 × 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•.

Product data sheet Technical Description

ZB4BG012

| 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 |
| |

| EL 41 10 10 | | 00 044 | 054 1054 |
|------------------------|------------------------|----------|-------------|
| 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 | Δ | Δ | Δ | | |
| 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 | |