Specifications





Head for key selector switch. Harmony XB4. with 421e

ZB4BG312

Price: 987.90 ZAR

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 | 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 | Center | | | |

Complementary

| Cad Overall Width | 29 mm | | | | |
|---------------------------------------|--|--|--|--|--|
| Cad Overall Height | 29 mm | | | | |
| Cad Overall Depth | 72 mm | | | | |
| Net Weight | 0.098 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 | Paois element | | | | |

Device Presentation

Basic element

Environment

| Protective Treatment | тн |
|--|----------|
| Ambient Air Temperature For Storage | -4070 °C |
| Ambient Air Temperature For Operation | -4070 °C |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

| Overvoltage Category | Class I conforming to IEC 60536 | |
|--|---|--|
| Ip Degree Of Protection | IP66 conforming to IEC 60529 | |
| | IP67 | |
| | IP69 | |
| | IP69K | |
| Nema Degree Of Protection | NEMA 13 | |
| | NEMA 4X | |
| Standards | GB 14048.5 | |
| | EN/IEC 60947-5-4 | |
| | CSA C22.2 No 14 | |
| | EN/IEC 60947-5-1 | |
| | UL 508 | |
| | EN/IEC 60947-1 | |
| | EN/IEC 60947-5-5 | |
| Product Certifications | LROS (Lloyds register of shipping) | |
| | GL | |
| | DNV | |
| | CSA | |
| | BV | |
| | UL listed | |
| 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 | 8.7 cm |
| Package 1 Width | 5.2 cm |
| Package 1 Length | 3.3 cm |
| Package 1 Weight | 105 g |
| Unit Type Of Package 2 | BB1 |
| Number Of Units In Package 2 | 5 |
| Package 2 Height | 8.6 cm |
| Package 2 Width | 26 cm |
| Package 2 Length | 3.3 cm |
| Package 2 Weight | 527 g |
| Unit Type Of Package 3 | S03 |
| Number Of Units In Package 3 | 100 |
| Package 3 Height | 30 cm |
| Package 3 Width | 30 cm |
| Package 3 Length | 40 cm |
| Package 3 Weight | 11.225 kg |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free

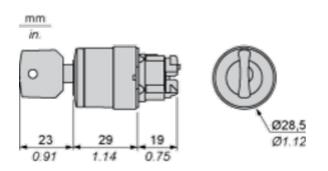
Rohs Exemption Information Yes

Certifications & Standards

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

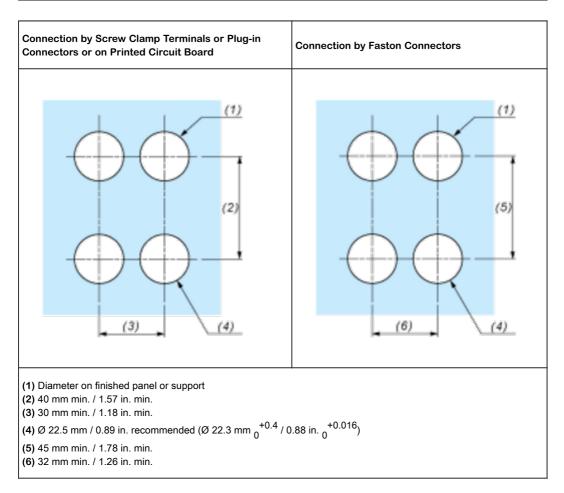
Dimensions Drawings

Dimensions



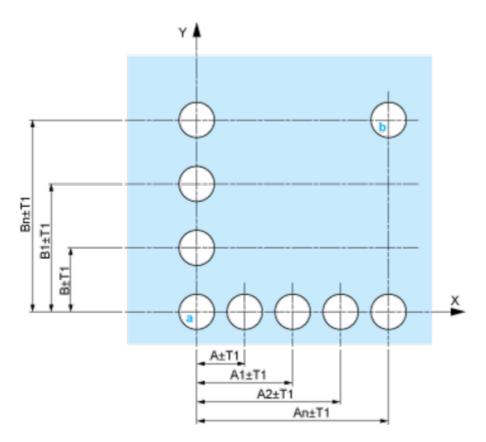
Mounting and Clearance

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



Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

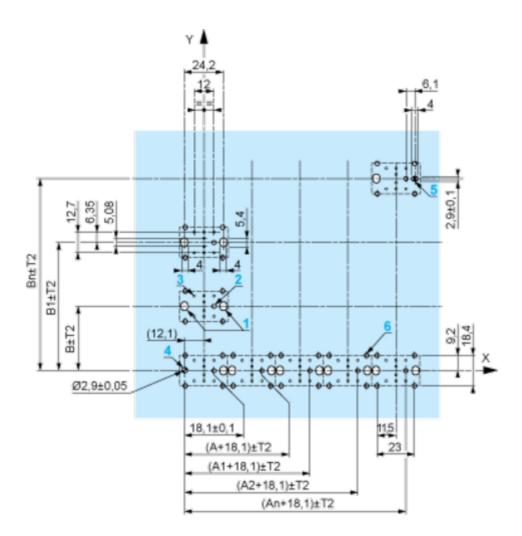
Panel Cut-outs (Viewed from Installer's Side)



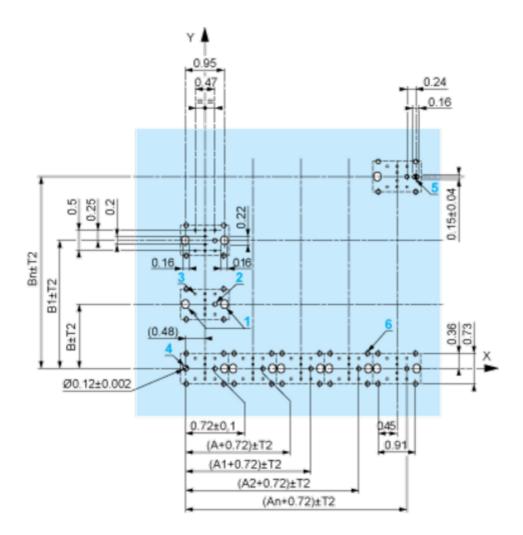
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

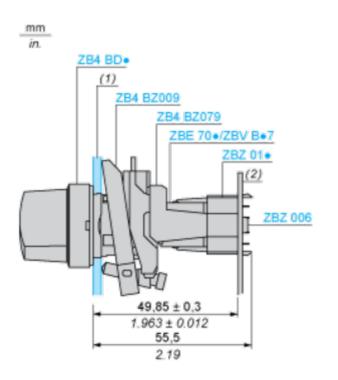
General Tolerances of the Panel and Printed Circuit Board

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:
 - $_{\circ}$ 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

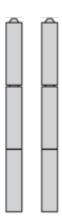
(2) Printed circuit board

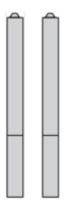
Mounting of Adapter (Socket) ZBZ 01•

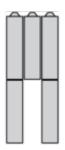
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the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

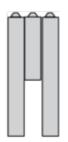
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

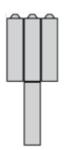
Technical Description

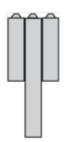












Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Legend

Single contact



Double contact



Light block



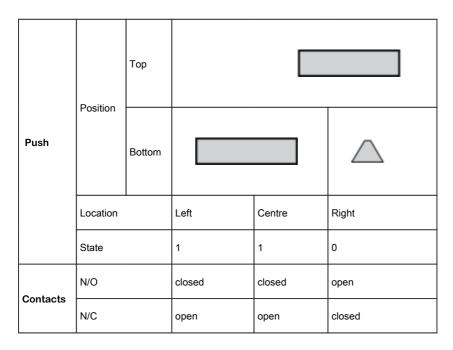
Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°





Position 0°



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

Position 45°



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