Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

selector switch head Ø22 3-position spring return Key 520E



ZB5AG714

! Discontinued on: Oct 20, 2020

! Discontinued

Main

| Range Of Product | Harmony XB5 | |
|-------------------------------|------------------------------|--|
| Product Or Component Type | Head for key selector switch | |
| Device Short Name | ZB5 | |
| Bezel Material | Dark grey plastic | |
| Mounting Diameter | 22 mm | |
| Head Type | Standard | |
| Sale Per Indivisible Quantity | 1 | |
| Shape Of Signaling Unit Head | Round | |
| Type Of Operator | To centre spring return | |
| Operator Profile | Black key switch | |
| Operator Position Information | 3 positions +/- 45° | |
| Type Of Keylock | Key 520E | |
| Key Withdrawal Position | Center | |

Complementary

| Cad Overall Width | 29 mm | | | |
|-----------------------------|---|--|--|--|
| Cad Overall Height | 29 mm | | | |
| Cad Overall Depth | 72 mm | | | |
| Net Weight | 0.057 kg | | | |
| Mechanical Durability | 1000000 cycles | | | |
| Station Name | XALD 15 cut-outs XALK 25 cut-outs | | | |
| Electrical Composition Code | 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 C3 for <6 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting SR1 for <3 contacts using single blocks in rear mounting | | | |
| Device Presentation | Basic element | | | |

Environment

Protective Treatment TH

| Ambient Air Temperature For Storage | -4070 °C | | | | |
|--|---|--|--|--|--|
| Ambient Air Temperature For Operation | -4070 °C | | | | |
| Overvoltage Category | Class II conforming to IEC 60536 | | | | |
| Ip Degree Of Protection | IP66 conforming to IEC 60529 IP67 IP69 IP69K | | | | |
| Nema Degree Of Protection | NEMA 13 NEMA 4X | | | | |
| Resistance To High Pressure Washer | 7000000 Pa at 55 °C, distance : 0.1 m | | | | |
| Ik Degree Of Protection | IK06 conforming to IEC 50102 | | | | |
| Standards | UL 508 EN/IEC 60947-5-4 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-1 JIS C8201-5-1 JIS C8201-1 | | | | |
| Product Certifications | UL listed BV LROS (Lloyds register of shipping) DNV GL CSA | | | | |
| 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 | | | | |

Contractual warranty

Warranty 18 months

Sustainability

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.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

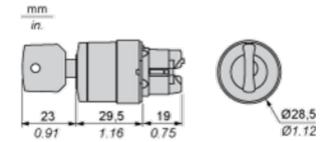
Yes

Certifications & Standards

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

Dimensions Drawings

Dimensions



Product data sheet

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



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3 $_0^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_0^{+0.016}$)

| | | | | 0 |
|---|---------|----------|---------|----------|
| Connections | a in mm | a in in. | b in mm | b in in. |
| By screw clamp terminals or plug-in connector | 40 | 1.57 | 30 | 1.18 |
| By Faston connectors | 45 | 1.77 | 32 | 1.26 |
| On printed circuit board | 30 | 1.18 | 30 | 1.18 |

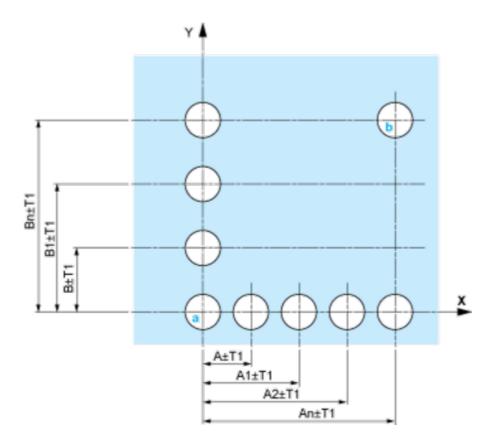
Detail of Lug Recess



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3 $_0^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

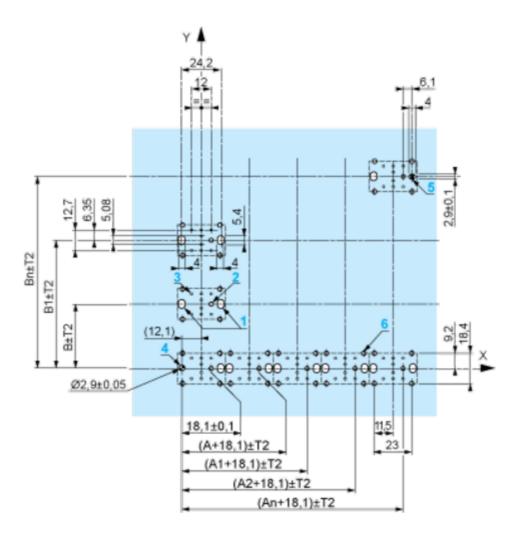
Panel Cut-outs (Viewed from Installer's Side)



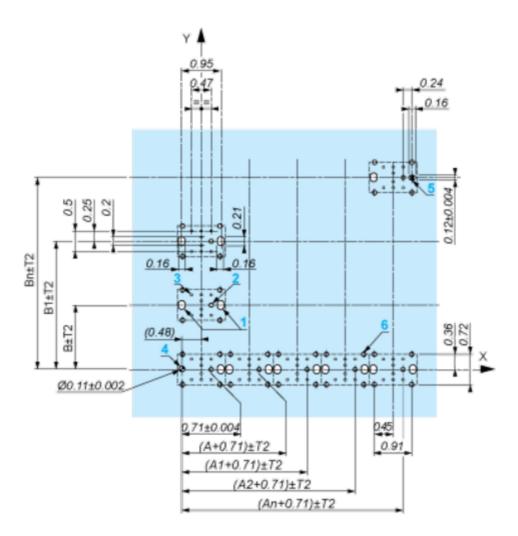
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

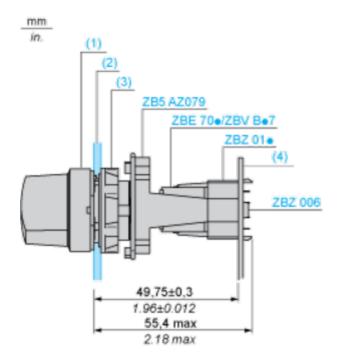
General Tolerances of the Panel and Printed Circuit Board

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 ZB5AZ009: ± 2 30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 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 (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



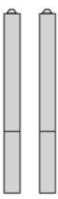
- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

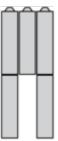
Mounting of Adapter (Socket) ZBZ01•

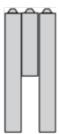
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

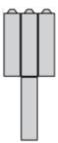
Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01•.

Technical Description

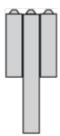


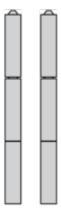






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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



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 desired in | Bottom | | | | |
| | Location | • | Left | Centre | Right | |
| | State | | 0 | 0 | 0 | |
| Contacts | N/O | | open | open | open | |
| | N/C | | closed | closed | closed | |

Product data sheet

ZB5AG714

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 | |