

Product data sheet Characteristics

ZB5AG0 selector switch head Ø22 3-position stay put Ronis 455



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 | Stay put |
| Operator profile | Black key switch |
| Operator position information | 3 positions +/- 45° |
| Type of keylock | Key 455 |
| Key withdrawal position | In any position |



Complementary

| Device presentation | Basic element |
|-----------------------------|---|
| | SR1 for <3 contacts using single blocks in rear mounting |
| | SF1 for <3 contacts using single blocks in front mounting |
| | C3 for <6 contacts using single blocks in front mounting |
| | C11 for <3 contacts using single blocks in front mounting |
| | C8 for <4 contacts using single and double blocks in front mounting |
| | C7 for <4 contacts using single blocks in front mounting |
| | C6 for <5 contacts using single and double blocks in front mounting |
| | C5 for <5 contacts using single blocks in front mounting |
| Electrical composition code | C4 for <6 contacts using single and double blocks in front mounting |
| | XALK 25 cut-outs |
| Station name | XALD 15 cut-outs |
| Mechanical durability | 1000000 cycles |
| Net weight | 0.057 kg |
| CAD overall depth | 72 mm |
| CAD overall height | 29 mm |
| CAD overall width | 29 mm |
| oompicitientary | |

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 | CSA C22.2 No 14 IEC 60947-5-1 IEC 60947-5-4 IEC 60947-1 JIS C8201-5-1 UL 508 JIS C8201-1 | | | |
| Product certifications | BV[RETURN]CSA[RETURN]DNV[RETURN]LROS (Lloyds register of shipping) [RETURN]UL listed[RETURN]GL | | | |
| 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 | 3.600 cm |
| Package 1 Width | 5.200 cm |
| Package 1 Length | 8.400 cm |
| Package 1 Weight | 67.000 g |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 150 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 10.513 kg |
| | |

Offer Sustainability

| Green Premium product | | | | |
|--|--|--|--|--|
| REACh Declaration | | | | |
| Pro-active compliance (Product out of EU RoHS legal scope) | Pro-active compliance (Product out of EU RoHS legal scope) | | | |
| Yes | Yes | | | |
| China RoHS Declaration | | | | |
| ₽ Yes | | | | |
| Product Environmental Profile | | | | |
| End Of Life Information | | | | |
| - | Image: Pro-active compliance (Product out of EU RoHS legal scope) Yes Image: Product China RoHS Declaration Image: Product Environmental Profile | | | |

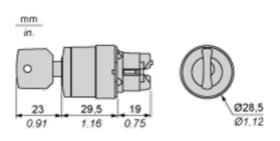
Contractual warranty

Warranty

18 months

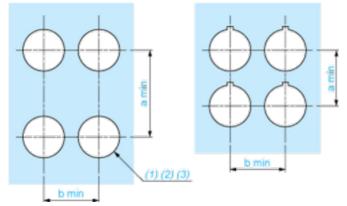
Product data sheet Dimensions Drawings ZB5AG0

Dimensions



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})

| 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

Life Is On Schneider

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 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:
 - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - 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.



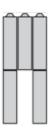
Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ01•
- 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 ZBZ01•

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

Electrical Composition Corresponding to Code C4

Electrical Composition Corresponding to Code C5

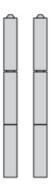


Electrical Composition Corresponding to Code C6

Electrical Composition Corresponding to Code C7

Electrical Composition Corresponding to Code C8

Electrical Composition Corresponding to Code C3



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 | | | \bigtriangleup | | |
| 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 | \bigtriangleup | \bigtriangleup | \bigtriangleup | | |
| Location | | Left | Centre | Right | |
| State | | 0 | 0 | 0 | |
| Contacts | N/O | | open | open | open |
| N/C | | closed | closed | closed | |

Position 45°



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