## Product datasheet

## selector switch head Ø22 3position spring return Ronis 455



Local distributor code:
237194352
ZB5AG1

EAN Code: 3389110905793

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 | Left to centre spring return |
| Operator Profile | Black key switch |
| Operator Position Information | 3 positions $+/-45^{\circ}$ |
| Type Of Keylock | Key 455 |
| Key Withdrawal Position | Right |

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 1... 5 cut-outs XALK 2... 5 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 <br> Storage | $-40 \ldots 70^{\circ} \mathrm{C}$ |


| Ambient Air Temperature For Operation | $-40 \ldots 70^{\circ} \mathrm{C}$ |
| :---: | :---: |
| Overvoltage Category | Class II conforming to IEC 60536 |
| Ip Degree Of Protection | IP66 conforming to IEC 60529 <br> IP67 <br> IP69 <br> IP69K |
| Nema Degree Of Protection | NEMA 13 <br> NEMA 4X |
| Resistance To High Pressure Washer | 7000000 Pa at $55^{\circ} \mathrm{C}$, distance : 0.1 m |
| Ik Degree Of Protection | IK06 conforming to IEC 50102 |
| Standards | IEC 60947-5-4 <br> UL 508 <br> JIS C8201-5-1 <br> IEC 60947-5-1 <br> IEC 60947-1 <br> CSA C22.2 No 14 JIS C8201-1 |
| Product Certifications | GL <br> CSA <br> UL listed <br> LROS (Lloyds register of shipping) <br> DNV <br> BV |
| Vibration Resistance | $5 \mathrm{gn}(\mathrm{f}=2 \ldots 500 \mathrm{~Hz}$ ) 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 | 8.700 cm |
| Package 1 Width | 3.400 cm |
| Package 1 Length | 5.300 cm |
| Package 1 Weight | 67.000 g |
| Unit Type Of Package 2 | $\mathrm{BB1}$ |
| Number Of Units In Package 2 | 5 |
| Package 2 Height | 8.700 cm |
| Package 2 Width | 3.400 cm |
| Package 2 Length | 26.500 cm |
| Package 2 Weight | 337.000 g |
| Unit Type Of Package 3 | 502 |
| Number Of Units In Package 3 | 50 |
| Package 3 Height | 15.000 cm |
| Package 3 Width | 30.000 cm |
| Package 3 Length | 40.000 cm |
| Package 3 Weight | 3.694 kg |

Contractual warranty

## Sustainability Flirenum

Green Premium ${ }^{\text {TM }}$ 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- $\mathrm{CO}_{2}$ 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
$\frac{\mathrm{mm}}{\mathrm{in} .}$


## 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) $\varnothing 22.5 \mathrm{~mm}$ recommended $\left(\varnothing 22.3_{0}^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended $\left(\varnothing 0.88 \mathrm{in} 0_{0}^{+0.016}\right)$

| 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) $\varnothing 22.5 \mathrm{~mm}$ recommended $\left(\varnothing 22.3_{0}{ }^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended ( $\varnothing 0.88 \mathrm{in} .0^{+0.016}$ )

## Product datasheet

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: $1.57 \mathrm{in} . \mathrm{min}$.
General Tolerances of the Panel and Printed Circuit Board
The cumulative tolerance must not exceed $0.3 \mathrm{~mm} / 0.012 \mathrm{in}$.: $\mathrm{T} 1+\mathrm{T} 2=0.3 \mathrm{~mm}$ max.

## Installation Precautions

- Minimum thickness of circuit board: $1.6 \mathrm{~mm} / 0.06 \mathrm{in}$.
- Cut-out diameter: $22.4 \mathrm{~mm} \pm 0.1$ / $0.88 \mathrm{in} . \pm 0.004$
- Orientation of body/fixing collar ZB5AZ009: $\pm 2^{\circ} 30^{\prime}$ (excluding cut-outs marked $\mathbf{a}$ and $\mathbf{b}$ ).
- 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 $90 \mathrm{~mm} / 3.54 \mathrm{in}$. horizontally (X), and $120 \mathrm{~mm} / 4.72 \mathrm{in}$. vertically $(\mathrm{Y})$.

- with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked $\mathbf{a}$ and $\mathbf{b}$ are diagonally opposed and must align with those marked $\mathbf{4}$ and $\mathbf{5}$.

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

## Mounting of Adapter (Socket) ZBZ01•

- 12 elongated holes for ZBZ006 screw access
- 21 hole $\varnothing 2.4 \mathrm{~mm} \pm 0.05 / 0.09 \mathrm{in} . \pm 0.002$ for centring adapter ZBZ01•
- $38 \times \varnothing 1.2 \mathrm{~mm} / 0.05 \mathrm{in}$. holes
- 41 hole Ø $2.9 \mathrm{~mm} \pm 0.05$ / $0.11 \mathrm{in} . \pm 0.002$, for aligning the printed circuit board (with cut-out marked a)
- 51 elongated hole for aligning the printed circuit board (with cut-out marked b)
. 64 holes Ø $2.4 \mathrm{~mm} / 0.09 \mathrm{in}$. for clipping in adapter ZBZ01•

Dimensions $\mathrm{An}+18.1$ relate to the $\varnothing 2.4 \mathrm{~mm} \pm 0.05 / 0.09 \mathrm{in} . \pm 0.002$ holes for centring adapter ZBZ01•.

Technical Description

Electrical Composition Corresponding to Code C4






Electrical Composition Corresponding to Code C3



Single contact


Double contact


Light block


Possible location


Position $315^{\circ}$
$315^{\circ}$


Position $0^{\circ}$



Position $45^{\circ}$



