Product datasheet
Characteristics

ZB5AG214
selector switch head $\varnothing 22$ 2-position stay put Ronis 520E



CSA C22.2 No 14
EN/IEC 60947-5-1
EN/IEC 60947-1
JIS C8201-5-1
UL 508
JIS C8201-1

| Product certifications | BV |
| :--- | :--- |
|  | UL listed |
|  | LROS (Lloyds register of shipping) |
|  | DNV |
|  | GL |
|  | CSA |

Packing Units

| Unit Type of Package 1 | PCE |
| :--- | :--- |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 67 g |
| Package 1 Height | 8.7 cm |
| Package 1 width | 3.4 cm |
| Package 1 Length | 5.2 cm |
| Unit Type of Package 2 | $\mathrm{S02}$ |
| Number of Units in Package 2 | 50 |
| Package 2 Weight | 3.684 kg |
| Package 2 Height | 15 cm |
| Package 2 width | 30 cm |
| Package 2 Length | 40 cm |

Offer Sustainability

| Sustainable offer status | Green Premium product |
| :--- | :--- |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) <br>  <br> EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

Contractual warranty
Warranty
18 months


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 ( $\left.\varnothing 22.30^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended ( $\varnothing 0.88 \mathrm{in} .0^{+0.016}$ )

| 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) $\varnothing 22.5 \mathrm{~mm}$ recommended ( $\left.\varnothing 22.30^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended ( $\varnothing 0.88 \mathrm{in} .0^{+0.016}$ )

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


A: 30 mm min. / 1.18 in. min.
B: 40 mm min. / $1.57 \mathrm{in} . \mathrm{min}$.
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 a and b).
- Tightening torque of screws ZBZO06: 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 $(\mathrm{X})$, and $120 \mathrm{~mm} / 4.72 \mathrm{in}$. vertically $(\mathrm{Y})$.
- 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 .

(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 ZBZO1•
- $38 \times \varnothing 1.2 \mathrm{~mm} / 0.05 \mathrm{in}$. holes
- 41 hole $\varnothing 2.9 \mathrm{~mm} \pm 0.05$ / $0.11 \mathrm{in} . \pm 0.002$, 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 $2.4 \mathrm{~mm} / 0.09$ 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•

## Product datasheet <br> ZB5AG214

Technical Description

Electrical Composition Corresponding to Code C4


## Product datasheet <br> ZB5AG214

Technical Description

Electrical Composition Corresponding to Code C5


## Product datasheet <br> ZB5AG214

Technical Description

Electrical Composition Corresponding to Code C6


Technical Description


## Product datasheet <br> ZB5AG214

Technical Description

Electrical Composition Corresponding to Code C8


## Product datasheet <br> ZB5AG214

Technical Description

Electrical Composition Corresponding to Code C3


## Product datasheet <br> ZB5AG214

Technical Description

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


Single contact


Double contact


Light block


Possible location
[-............

## Technical Description

Sequence of Contacts Fitted to 2-position Selector Switch Body
Position $315^{\circ}$
${ }^{315^{\circ}}$

| Push | Position | Top | $\square$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bottom | $\triangle$ | $\triangle$ | $\triangle$ |
|  | Location |  | Left | Centre | Right |
|  | State |  | 0 | 0 | 0 |
| Contacts | N/O |  | open | open | open |
|  | N/C |  | closed | closed | closed |

Position $45^{\circ}$
$\theta^{45^{\circ}}$

| Push | Position | Top <br> Bottom |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  | Location |  | Left | Centre | Right |
|  | State |  | 1 | 1 | 1 |
| Contacts | N/O |  | closed | closed | closed |
|  | N/C |  | open | open | open |

