

## ZB4BG0912

selector switch head Ø22 3-position stay put Ronis 421E



### 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               | Ronis 421E                   |
| Key withdrawal position       | Right                        |

### Complementary

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                  | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CAD overall height                 | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CAD overall depth                  | 72 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Product 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        | C11 for 3 contacts using single blocks in front mounting<br>C7 for 4 contacts using single blocks in front mounting<br>C8 for 4 contacts using single and double blocks in front mounting<br>C4 for 6 contacts using single and double blocks in front mounting<br>C5 for 5 contacts using single blocks in front mounting<br>C6 for 5 contacts using single and double blocks in front mounting<br>C3 for 6 contacts using single blocks in front mounting |
| Device presentation                | Basic element                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### Environment

|                                       |                                                                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| protective treatment                  | TH                                                                                                                    |
| ambient air temperature for storage   | -40...70 °C                                                                                                           |
| ambient air temperature for operation | -40...70 °C                                                                                                           |
| overvoltage category                  | Class I conforming to IEC 60536                                                                                       |
| IP degree of protection               | IP67<br>IP66 conforming to IEC 60529<br>IP69K<br>IP69                                                                 |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                    |
| standards                             | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-5<br>UL 508<br>GB 14048.5<br>CSA C22.2 No 14 |
| product certifications                | BV<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)                                                          |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

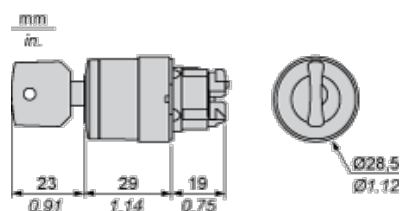
RINA  
UL listed

|                      |                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| vibration resistance | 5 gn (f = 2...500 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<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |

## Contractual warranty

|                 |                     |
|-----------------|---------------------|
| Warranty period | 18 months 18 months |
|-----------------|---------------------|

## Dimensions

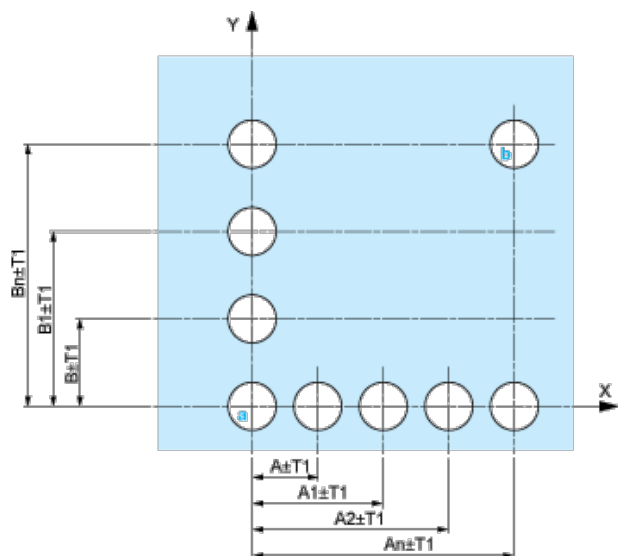


## Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board                                                                                                                                                                                                                                                                                     | Connection by Faston Connectors                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Diagram showing panel cut-out dimensions for screw clamp terminals or plug-in connectors. The diagram shows a 2x2 grid of circular holes. Dimensions are labeled: (1) Diameter on finished panel or support, (2) Vertical spacing between rows, (3) Horizontal spacing between columns, and (4) Hole diameter.</p>                                                     | <p>Diagram showing panel cut-out dimensions for faston connectors. The diagram shows a 2x2 grid of circular holes. Dimensions are labeled: (1) Diameter on finished panel or support, (5) Vertical spacing between rows, (6) Horizontal spacing between columns, and (4) Hole diameter.</p> |
| <p>(1) Diameter on finished panel or support</p> <p>(2) 40 mm min. / 1.57 in. min.</p> <p>(3) 30 mm min. / 1.18 in. min.</p> <p>(4) <math>\varnothing 22.5</math> mm / 0.89 in. recommended (<math>\varnothing 22.3</math> mm <math>^{+0.4}_0</math> / 0.88 in. <math>^{+0.016}_0</math>)</p> <p>(5) 45 mm min. / 1.78 in. min.</p> <p>(6) 32 mm min. / 1.26 in. min.</p> |                                                                                                                                                                                                                                                                                             |

## Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

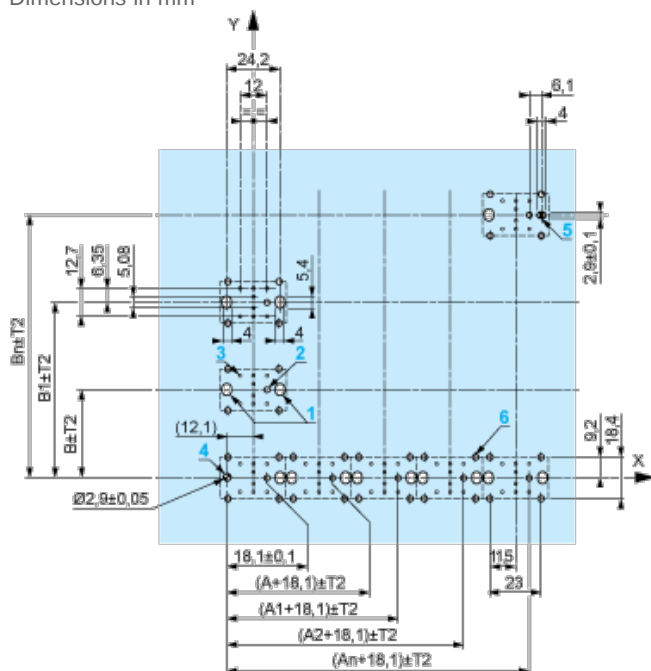


A: 30 mm min. / 1.18 in. min.

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.



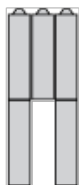
Electrical Composition Corresponding to Code C3



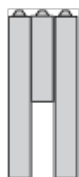
Electrical Composition Corresponding to Code C4



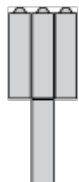
Electrical Composition Corresponding to Code C5



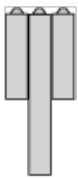
Electrical Composition Corresponding to Code C6



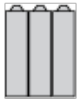
Electrical Composition Corresponding to Code C7



Electrical Composition Corresponding to Code C8



### Electrical Composition Corresponding to 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 | Top    |        |        |        |
|          |          | Bottom |        |        |        |
|          | Location |        | Left   | Centre | Right  |
|          | State    |        | 1      | 1      | 0      |
| Contacts | N/O      |        | closed | closed | open   |
|          | N/C      |        | open   | open   | closed |

Position 0°



|      |          |        |  |  |  |
|------|----------|--------|--|--|--|
| Push | Position | Top    |  |  |  |
|      |          | Bottom |  |  |  |

|                 |          |        |        |        |
|-----------------|----------|--------|--------|--------|
|                 | Location | Left   | Centre | Right  |
|                 | State    | 0      | 0      | 0      |
| <b>Contacts</b> | N/O      | open   | open   | open   |
|                 | N/C      | closed | closed | closed |

Position 45°



|                 |          |        |             |             |        |
|-----------------|----------|--------|-------------|-------------|--------|
| <b>Push</b>     | Position | Top    | <div></div> |             |        |
|                 |          | Bottom | <div></div> | <div></div> |        |
|                 | Location |        | Left        | Centre      | Right  |
|                 | State    |        | 0           | 1           | 1      |
|                 |          |        |             |             |        |
| <b>Contacts</b> | N/O      |        | open        | closed      | closed |
|                 | N/C      |        | closed      | open        | open   |