

# Datasheet

## → FRTPII

09/10/2025



### Technical data

Push-button contact blocks with print connections

|           |                               |
|-----------|-------------------------------|
| Type      | FRTPII                        |
| Series    | Contact blocks F RTP...       |
| Rubric    | Contact blocks                |
| Approvals | CCC, cURus, ENEC10, VDE, UKCA |



### → General data

|                            |                  |
|----------------------------|------------------|
| Design                     | Round            |
| Illumination               | Yes              |
| Operating temperature      | -25 °C ... 70 °C |
| Enclosure colour           | Grey             |
| Contact material           | AgNi             |
| Storage temperature        | -40 °C ... 80 °C |
| Degree of protection front | IP00             |

### → Electrical data

|                                             |                                                                    |
|---------------------------------------------|--------------------------------------------------------------------|
| Conditional short circuit current           | 1000 A                                                             |
| Rated operating voltage<br>IEC/EN 60947-5-1 | 240 V AC<br>120 V AC<br>250 V DC<br>125 V DC<br>60 V DC<br>24 V DC |

|                                                            |                                                                  |
|------------------------------------------------------------|------------------------------------------------------------------|
| <i>Rated operating current</i><br><i>IEC/EN 60947-5-1</i>  | 1.5 A AC<br>3 A AC<br>0.27 A DC<br>0.55 A DC<br>1 A DC<br>2 A DC |
| <i>Rated insulation voltage</i><br><i>IEC/EN 60947-5-1</i> | 250 V AC<br>250 V DC                                             |
| <i>Rated voltage</i><br><i>IEC/EN 61058-1</i>              | 250 V AC/DC                                                      |
| <i>Rated impulse withstand voltage</i>                     | 2,5 kV                                                           |
| <i>Rated current</i><br><i>IEC/EN 61058-1</i>              | 6(4) A                                                           |
| <i>Contact resistance</i>                                  | < 20 mΩ NO new state                                             |
| <i>Electrical lifetime</i>                                 | 600,000 switching cycles at rated voltage                        |
| <i>Utilisation category</i><br><i>IEC/EN 60947-5-1</i>     | AC15 B300<br>DC13 Q300                                           |
| <i>Contact type</i>                                        | 2NO                                                              |
| <i>Short circuit protection SCPD</i>                       | 6 A Char. D                                                      |
| <i>Illuminant</i>                                          | LED optionally retrofittable                                     |
| <i>Bouncing time</i>                                       | < 10 ms NO                                                       |
| <i>Rating</i><br><i>information acc. to UL</i>             | Pilot duty B300 24 V DC<br>Pilot duty B300 3 A DC                |
| <i>Switching capacity</i>                                  | 240 V AC/DC<br>1.5 A<br>120 V AC/DC<br>3 A                       |
| <i>Breaking capacity</i><br><i>IEC/EN 60947-5-1</i>        | 10 I <sub>e</sub> AC<br>1.1 I <sub>e</sub> DC                    |
| <i>Minimum voltage</i>                                     | 5 V                                                              |
| <i>Current minimal</i>                                     | 1 mA under laboratory conditions                                 |
| <i>Thermal continuous current</i>                          | 5 A AC                                                           |

#### Note

- Optional illumination with Schlegel LED type FRTLED3UW
- With illumination with LED: overvoltage category II (2.5kV), pollution degree 2
- 100,000 switching cycles (at max. switching capacity)

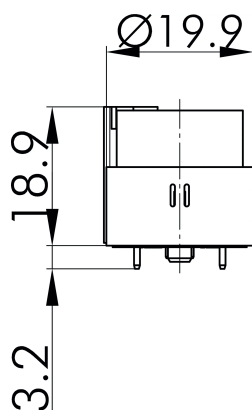
#### → Mechanical data

|                            |                          |
|----------------------------|--------------------------|
| <i>Connection</i>          | PCB-mount terminals      |
| <i>Operating travel</i>    | 2.3 mm                   |
| <i>Mechanical lifetime</i> | 600,000 switching cycles |
| <i>Switching function</i>  | Momentary function       |
| <i>Tactile</i>             | No                       |

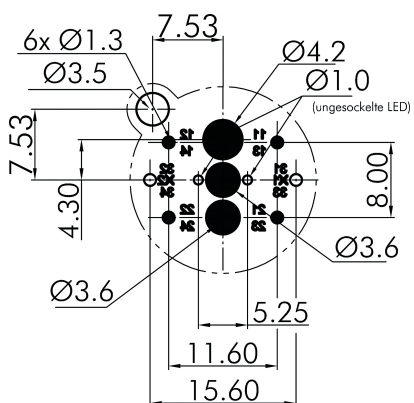
The contact elements must not be used individually. There must always be at least 2 contact elements on the PCB, each of which must be offset by 180°.

## Technical drawings

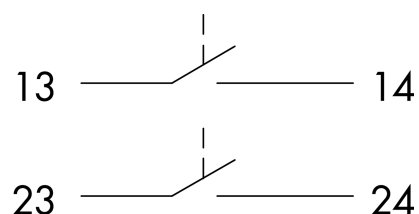
### → Dimensional drawing



### → Cutout dimensions



### → Circuit diagram



### → Switching path diagram

0 1 2

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