

Datasheet

→ **FRTPI_AU** 

09/10/2025



Technical data

Push-button contact sensor with print connection

Type	FRTPI_AU
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 gold-plated
Storage temperature	-40 °C ... 80 °C
Degree of protection front	IP00

→ Electrical data

Conditional short circuit current	1000 A
Rated insulation voltage IEC/EN 60947-5-1	250 V AC 250 V DC
Rated impulse withstand voltage	2,5 kV
Contact resistance	< 50 mΩ NO new state

<i>Electrical lifetime</i>	600,000 switching cycles at rated voltage
<i>Utilisation category IEC/EN 60947-5-1</i>	AC15 DC13
<i>Contact type</i>	1NO
<i>Short circuit protection SCPD</i>	Glass fuse 1 A slow (usual: 5x20; 6.3x32)
<i>Illuminant</i>	LED optionally retrofittable
<i>Bouncing time</i>	< 10 ms NO
<i>Rating information acc. to UL</i>	42 V DC 100 mA DC
<i>Switching capacity</i>	42 V 250 mA
<i>Switching voltage</i>	20 mV ... 42 V AC/DC
<i>Switching current</i>	1 mA ... 250 mA
<i>Minimum voltage</i>	5 V
<i>Current minimal</i>	1 mA under laboratory conditions
<i>Overvoltage category</i>	II
<i>Pollution degree</i>	2

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

Switching function

Momentary function

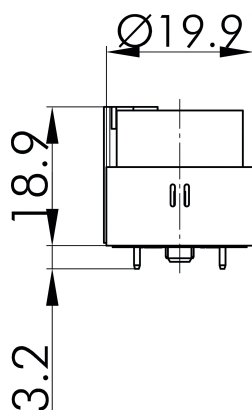
Tactile

No

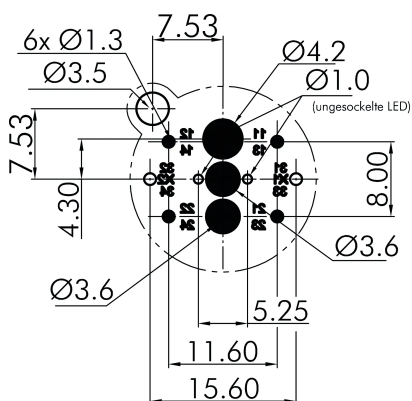
The contact elements must not be used individually. There must always be at least 2 contact elements on the PCB, each of which must be offset by 180°.

Technical drawings

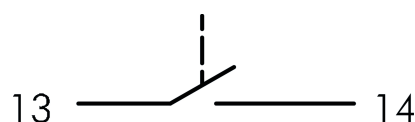
→ Dimensional drawing



→ Cutout dimensions



→ Circuit diagram



→ Switching path diagram

