Datasheet

➔ FRTPI

09/10/2025

Technical data

Push-button contact blocks with print connections

Type	FRTPI
Series	Contact blocks FRTP...
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 IEC/EN 60947-5-1	240 V AC 120 V AC 250 V DC 125 V DC 60 V DC 24 V DC

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

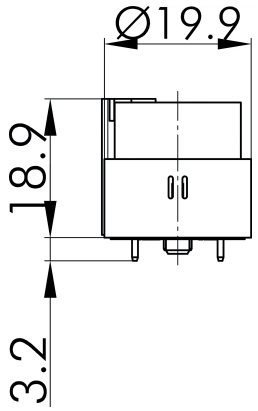
➔ Mechanical data

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

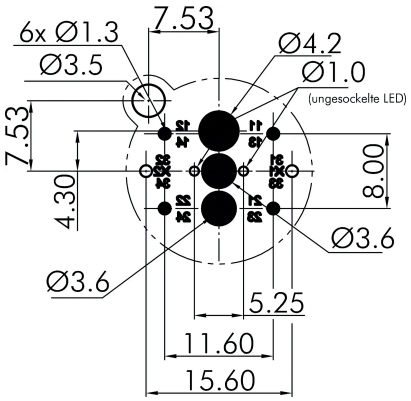
The contact elements must not be used individually. There must always be at least 2 contact elements on the PCB, each of which must be offset by 180°.

Technical drawings

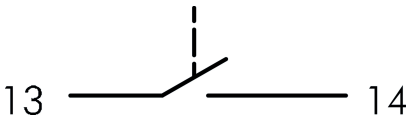
➔ Dimensional drawing



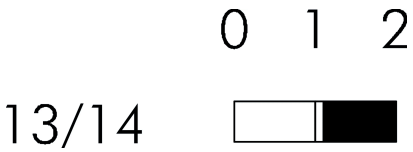
➔ Cutout dimensions



➔ Circuit diagram



➔ Switching path diagram



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