

# RAFIX FS switching element universal QC, silver, 1 NC + 1 NO



#### fields of application

- > Measurement-control-regulation
- > Electrical engineering
- Mechanical and system engineering
- > Signalling systems
- > Vehicle construction
- > Agricultural and forestry machinery
- > Construction machinery
- > Handheld terminals
- > Industrial robots









#### description

These switching elements have external plungers and therefore can only be combined with pushbuttons, selector switches and keylock switches.

The QC switching elements can be latched into the actuators without the need for tools and with little effort. Wiring is performed in the conventional manner - directly with male quick-connect terminals. The fast and inexpensive version - in cases where no PCB is cost-effective.

#### QC mounting depths

- 26.8 mm for RAFIX 22 FS+ and RAFIX 22 FSR
- 32.8 mm for RAFIX 30 FS+:
- > QC contact block for RAFIX 22 FS+, RAFIX FSR and RAFIX 30 FS
- > Connection: QC = Quick Connect
- > Only suitable for pushbuttons, selector and key-operated switches, not for mushroom pushbuttons and emergency stop
- > Silver contacts (= black housing)
- > Version with light guide for SMT LED, without light guide for THT LED
- > labelling:
  - normally closed contacts = red plungers
  - NO contacts = green plungers
  - NC and NO contacts = yellow plungers

#### technical data

> general

Disassembly possible no

black

Operating temperature, min. -40 °C 85 °C Operating temperature, max.

direct links

> RAFI eCatalog

The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights. date: Sep 25, 2023 page: 1/4

RAFI GmbH & Co. KG



Storage temperature, min. -40 °C
Storage temperature, max. 85 °C
illuminated Yes
Packaging unit 10 pcs.
net weight 4.0 g

Operating life electrical 1,000,000 (1A / 250V AC) cycles

100,000 (2A / 250V AC) cycles

30,000 (4A / 250V AC) cycles

B10 electrical 1.300.000 (1A / 250V AC) cycles

130.000 (2A / 250V AC) cycles

40.000 (4A / 250V AC) cycles

Environment resistance IEC 60068-2-14

IEC 60068-2-30 IEC 60068-2-33 IEC 60068-2-78

Shock resistance according to

standard IEC 60068-2-27

15 g at 11 ms amplitude semi-sinusoidal

Vibration-resistance according to

standard IEC 60068-2-6

5 g at 10 - 500 Hz

MOQ order 10 pcs.

RoHS compliant Yes

REACH compliant Yes

> mounting diameters

Outside dimension, length 19.7 mm
Outside dimension, width 18.6 mm
Outside dimension, height 30.65 mm
Mounting depth 27 mm

> mechanical data

Operating force, max. 100 N

Contact function 1 NC + 1 NO
Contact system Bridge contact

Contact material Silver
Fixing Latching
Solderability No

Terminal on the rear Flat quick-connect terminal 2.8 x 0.8

Connection marking Normally Closed: 11/12, 21/22

Normally Open: 13/14, 23/24

> electrical data

Rated insulation voltage 250 V Rated surge voltage 2,500 V Rated voltage, min. 10 V Rated voltage, max. 250 V Voltage type AC / DC 10-250 V Rated operating voltage Rated current, min. 0.01 A Rated current, max. 4 A 0.5 W Rated power, min. Power loss 0.64 W

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240 V / 1,5 A (IEC 60947)

Categories of use AC-15 / B300

DC-13 / Q300

Category of use DC-13 / Q300 120 V / 0,55 A (IEC 60947)

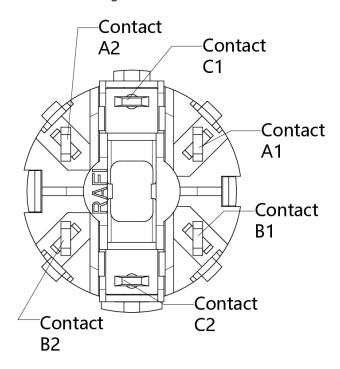
240 V / 0,27 A (IEC 60947)

Conditional short circuit current 1,000 A



### drawings

#### **Connection drawing**



Contact block with LED-Clip