# RAFIX FS switching element universal QC, silver, 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.

While the NO contacts are labeled 13/14 or 23/24, the NC contacts are labeled 11/12 or 21/22. In the connection drawing, the first contact is described as contact A, while the second contact is described as contact B.

**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 |
| Color | black |
| Operating temperature, min. | -40 °C |

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| | |
|---|---|
| Operating temperature, max. | 85 °C |
| Storage temperature, min. | -40 °C |
| Storage temperature, max. | 85 °C |
| illuminated | Yes |
| Packaging unit | 10 pcs. |
| net weight | 4 g |
| Operating life electrical | 1,000,000 (1A / 250V AC) cycles<br>100,000 (2A / 250V AC) cycles<br>30,000 (4A / 250V AC) cycles |
| B10 electrical | 1.300.000 (1A / 250V AC) cycles<br>130.000 (2A / 250V AC) cycles<br>40.000 (4A / 250V AC) cycles |
| Environment resistance | IEC 60068-2-14<br>IEC 60068-2-30<br>IEC 60068-2-33<br>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 |

**direct links**

RAFI eCatalog

### 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 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 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 |
| Rated operating voltage | 10-250 V |
| Rated current, min. | 0.01 A |
| Rated current, max. | 4 A |
| Rated power, min. | 0.5 W |
| Power loss | 0.32000 W |

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| | |
|---|---|
| Category of use AC-15 / B300 | 120 V / 3 A (IEC 60947)<br>240 V / 1,5 A (IEC 60947) |
| Categories of use | AC-15 / B300<br>DC-13 / Q300 |
| Category of use DC-13 / Q300 | 120 V / 0,55 A (IEC 60947)<br>240 V / 0,27 A (IEC 60947) |
| Conditional short circuit current | 1,000 A |

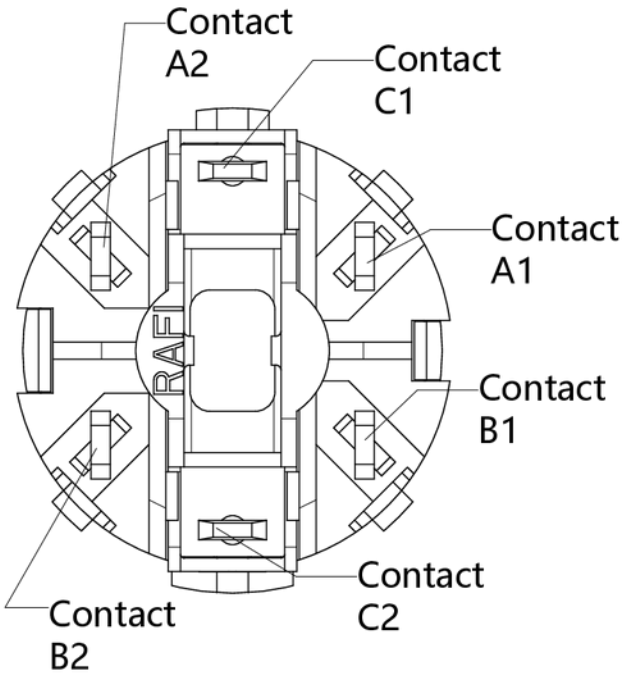
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## drawings

### Connection drawing




Contact block with LED-Clip

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