# RAFIX 22 QR, switching element, screw terminal, silver, with coupling, 1 NC, 1 NC



## fields of application

- Measurement-control-regulation
- Electrical engineering
- Mechanical and system engineering
- Vehicle construction

## special features

- Switching elements with screw connection
- Mounting by snapping on (onto coupling) and actuator
- The connections are open, wiring can start immediately
- The screws are captively fixed in the terminal point
- Time and material savings due to elimination of ferrules for stranded wires
- Rigid wires and stranded wires can be used
- Less wiring effort by inserting the cables from the rear, as no bending of the wires is necessary.
- Disassembly by loosening the bayonet lever of the coupling

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## description

RAFIX control units are modular units consisting of several parts. In the RAFIX 22 QR family, they always consist of an actuating element, coupling, and switching element, or of a light attachment, coupling, and lamp socket. For assembly, the switching elements and lamp holders are first snapped into the coupling. Then this unit is snapped onto the actuating element or the signal lamp. To release, a bayonet lever must be actuated.

For illuminable actuators and indicator lights, please use a lamp socket / LED element as the middle element in the coupling.

Switching elements marked in different colors prevent confusion in the bearing and when connecting:

- 1/2 NC contacts = 1/2 red side cover
- 1/2 normally open contacts = 1/2 green side covers
- 1 NC and 1 NO contact = 1 red and 1 green side cover
- Silver contacts = housing base color black
- Gold contacts = housing base color gray
- Lamp socket and LED element = completely black
- The connections belonging to a pair of contacts are marked in color on the connection side and provided with contact identification numbers: 1-2 = NC contact, 3-4 = NO contact
- Safe switching due to silver contacts (max. 400 V)
- Scope of delivery with coupling

**Additional information according to UL certificate:**

- The terminals are suitable for factory and field wiring.
- The terminals should be mounted with solid or stranded wires.
- During the temperature test, wiring terminals reached 112°C. The temperature rating of conductors used to connect to these devices shall be rated for at least 112°C.

## technical data

- **general**

| | |
|---|---|
| Color | black |
| Operating temperature, min. | -25 °C |
| Operating temperature, max. | 70 °C |
| Storage temperature, min. | -40 °C |
| Storage temperature, max. | 80 °C |
| illuminated | No |
| Packaging unit | 5 pcs. |
| net weight | 34.8 g |
| Operating life electrical | 70.000 (10A / 250V AC) cycles<br>200.000 (5A / 250V AC) cycles |

**direct links**

- RAFI eCatalog

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| | |
|---|---|
| B10 electrical | 90.000 (10A / 250V AC) cycles<br>210.000 (5A / 250V AC) cycles<br>515.000 (2A / 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 |
| Protection class | II |
| MOQ order | 10 pcs. |
| Pollution degree acc. to DIN EN 61010-1 | Pollution degree 3 |
| RoHS compliant | Yes |
| REACH compliant | Yes |

**mounting diameters**

| | |
|---|---|
| Outside dimension, length | 49.9 mm |
| Outside dimension, width | 39.5 mm |
| Outside dimension, height | 30 mm |
| Mounting depth | 56.4 mm |

**mechanical data**

| | |
|---|---|
| Operating force, max. | 100 N |
| Contact function | 1 NC, 1 NC |
| Contact system | Bridge contact |
| Contact material | Silver |
| Fixing | Latching |
| Terminal on the rear | Screw terminal |
| Connection marking | Normally Closed: 11/12, 21/22 |
| Abisolierlänge | 8 mm |
| Wire end sleeve required | Ja |

**electrical data**

| | |
|---|---|
| Rated insulation voltage | 400 V |
| Rated surge voltage | 6,000 V |
| Rated voltage, min. | 10 V |
| Rated voltage, max. | 400 V |
| Voltage type | AC / DC |
| Rated operating voltage | 10-400 V |
| Rated current, max. | 10 A |
| Power loss | 4.00000 W |
| Category of use AC-15 / B300 | 400 V / 3,5 A (IEC 60947) |
| Categories of use | AC-15 / B300<br>DC-13 / Q300 |
| Category of use DC-13 / Q300 | 240 V / 0,27 A (IEC 60947) |
| Conditional short circuit current | 1,000 A |
| Maximum connection cross section | 1.5 mm² |

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| | |
|---|---|
| Minimum connection cross section | 0.25 mm² |

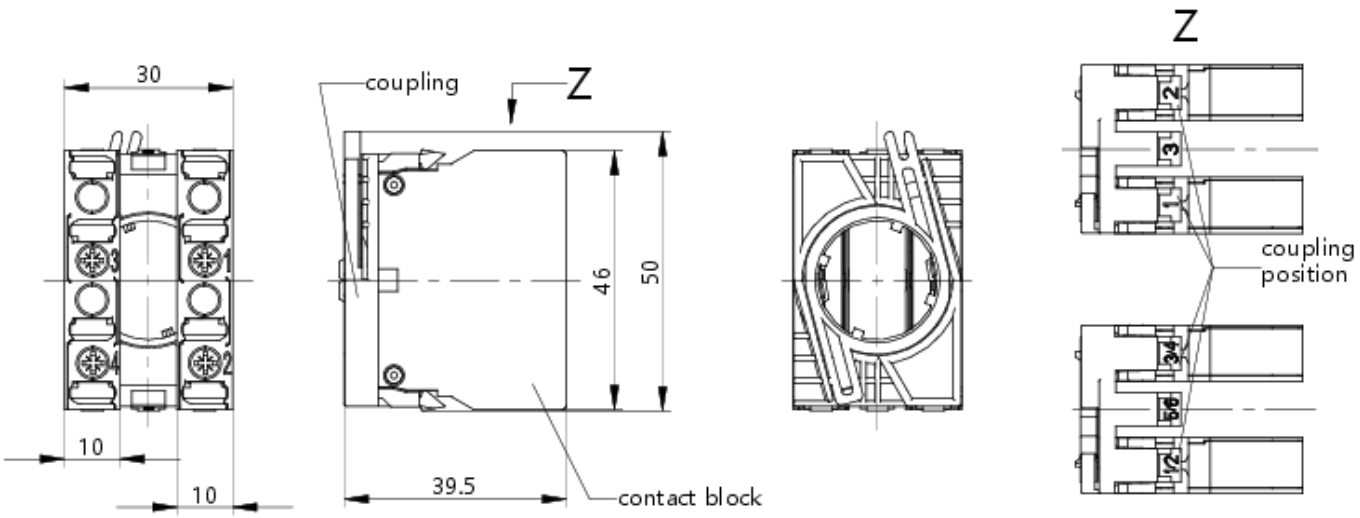
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## drawings

### System drawing




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