

# RAFIX 22 QR, switching element, cage clamp terminal, silver, with coupling, 1 NO



## Description

### Additional information according to UL certificate:

- The terminals are suitable for factory and field wiring.
- The terminals should be mounted with solid 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.

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



## technical data

### ➤ general

|                             |        |
|-----------------------------|--------|
| Operating temperature, min. | -25 °C |
| Operating temperature, max. | 70 °C  |
| Storage temperature, min.   | -40 °C |

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 may 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.

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|                                                          |                                                                                                 |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Storage temperature, max.                                | 80 °C                                                                                           |
| illuminated                                              | No                                                                                              |
| Packaging unit                                           | 10 pcs.                                                                                         |
| Net weight                                               | 19.9 g                                                                                          |
| Operating life electrical                                | 70.000 (10A / 250V AC) cycles<br>200.000 (5A / 250V AC) cycles                                  |
| 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                            |
| Vibration resistance according to standard IEC 60068-2-6 | 5 g at 10 - 500 Hz                                                                              |
| Minimum order quantity (MOQ)                             | 10 pcs.                                                                                         |
| Pollution degree acc. to DIN EN 61010-1                  | Pollution degree 3                                                                              |
| RoHS compliant                                           | Yes                                                                                             |
| REACH compliant                                          | Yes                                                                                             |
| Country of origin                                        | HU                                                                                              |

> **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**

|                          |                |
|--------------------------|----------------|
| Abisolierlänge           | 8 mm           |
| Wire end sleeve required | Nein           |
| Fixing                   | Latching       |
| Contact function         | 1 NO           |
| Contact system           | Bridge contact |

> **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                        | 2.00000 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                      |

> **Specifications according to IEC 60947-5-1**

|                     |         |
|---------------------|---------|
| Rated surge voltage | 6,000 V |
|---------------------|---------|

**direct links**  
[> RAFI eCatalog](#)

## Use according to UL:

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RAFIX control devices are defined at RAFI as modular elements, consisting of an actuating element, if necessary a coupling and an individual contact or lighting unit.

Actuating elements (such as pushbuttons, emergency stop actuators, etc.) have the intended tactility, reset and function only when assembled with the appropriate switching elements.

## drawings

### System drawing

