

# RAFIX 22 QR, switching element, cage clamp terminal, silver, without coupling, 1 NC



#### fields of application

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

#### special features

- > Switching elements with cage clamp connection
- > Connection with cage clamp: Insert screwdriver (open terminal), insert cable, pull out screwdriver (terminal closes)
- > Time and material savings due to elimination of ferrules for stranded wires
- > Solid 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





#### 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 without coupling, please order separately

#### 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.

#### technical data

> general		
Color	black	direct links
Operating temperature, min.	-25 °C	> RAFI eCatalog
Operating temperature, max.	70 °C	
Storage temperature, min.	-40 °C	
Storage temperature, max.	80 °C	
illuminated	No	
Packaging unit	10 pcs.	
net weight	13 g	
Operating life electrical	70.000 (10A / 250V AC) cycles	
	200.000 (5A / 250V AC) cycles	

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.

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90.000 (10A / 250V AC) cycles B10 electrical

> 210.000 (5A / 250V AC) cycles 515.000 (2A / 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

Pollution degree acc. to DIN EN

61010-1

Pollution degree 3

10 pcs.

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

Contact system Bridge contact

Contact material Silver Fixing Latching

Terminal on the rear Cage tension clamp

Abisolierlänge 8 mm Wire end sleeve required Nein

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

Category of use AC-15 / B300 400 V / 3,5 A (IEC 60947)

Categories of use AC-15 / B300 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 0.75 mm<sup>2</sup>

section

Minimum connection cross 0.2 mm<sup>2</sup>

section

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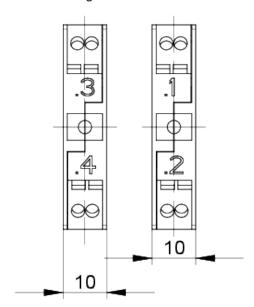
Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com info.headquarters@rafi-group.com

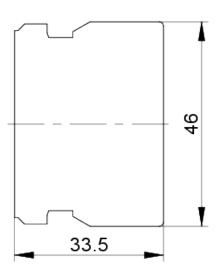
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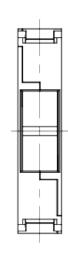


## drawings

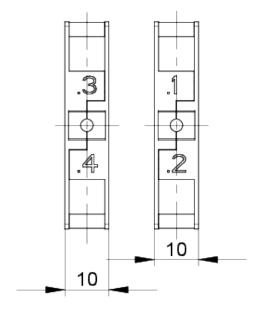
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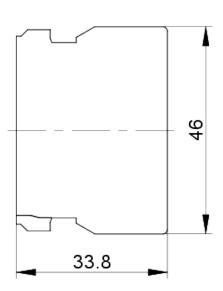


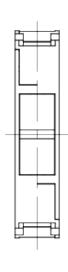




#### **Dimensioned drawing**







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