

# RAFIX 22 QR, switching element, cage clamp terminal, gold, 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
- > Sicheres Schalten von Kleinströmen durch oxidationsfreie Goldkontakte (max. 35 V / 0,25 A)
- > Lieferumfang ohne Kupplung, bitte separat bestellen

#### technical data

Shock resistance according to

Vibration-resistance according to

standard IEC 60068-2-27

standard IEC 60068-2-6

>	general		
	Color	light gray	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	12.8 g	
	Operating life electrical	1.000.000 (10mA / 24V DC) cycles	
	B10 electrical	1.300.000 (10mA / 24V DC) cycles	
	Environment resistance	IEC 60068-2-14	
		IEC 60068-2-30	
		IEC 60068-2-33	
		IEC 60068-2-78	

15 g at 11 ms amplitude semi-sinusoidal

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date: Jul 27, 2024 page: 2/4

5 g at 10 - 500 Hz

RAFI GmbH & Co. KG



MOQ order 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 Gold Fixing Latching

Terminal on the rear Cage tension clamp

Abisolierlänge 8 mm Wire end sleeve required Nein

> electrical data

Rated voltage, min. 0.02 V Rated voltage, max. 35 V Voltage type AC / DC Rated operating voltage 0.02-35 V Rated current, min. 0.00001 A Rated current, max. 0.1 A Rated power, max. 1 W

Power loss 0.00010 W Maximum connection cross 0.75 mm<sup>2</sup>

section

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

section



# drawings

#### **Dimensioned drawing**





