

# RAFIX 22 QR, switching element, screw terminal, silver, with coupling, 1 NO, 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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# technical data sheet 1.20.124.005/0000



#### 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	direct links
Operating temperature, min.	-25 °C	> RAFI eCatalog
Operating temperature, max.	70 °C	
Storage temperature, min.	-40 °C	
Storage temperature, max.	2° 08	
illuminated	No	
Packaging unit	10 pcs.	
net weight	34.8 g	
Operating life electrical	70.000 (10A / 250V AC) cycles	
	200.000 (5A / 250V AC) cycles	

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	B10 electrical	90.000 (10A / 250V AC) cycles
		210.000 (5A / 250V AC) cycles 515.000 (2A / 250V AC) cycles
	Environment resistance	IEC 60068-2-14
	Environment resistance	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
	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 NO, 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 Normally Open: 13/14, 23/24
	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
		DC-13 / Q300
	Category of use DC-13 / Q300	240 V / 0,27 A (IEC 60947)
	Conditional short circuit current	1,000 A

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Maximum connection cross section Minimum connection cross section 1.5 mm<sup>2</sup>

0.25 mm<sup>2</sup>

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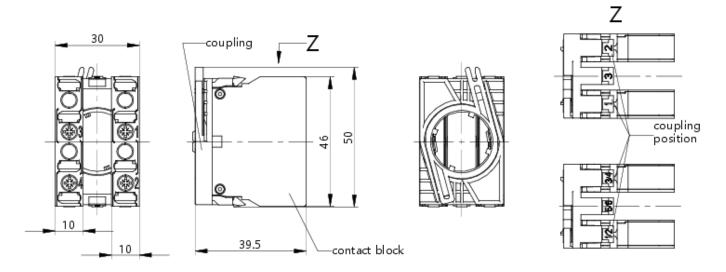
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#### drawings

#### System drawing



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