



**General data**

**RAFIX 22QR control component range**

- For a mounting hole diameter of 22.3 mm to IEC 60947
- 250V/10A max.
- Water-jet proof IP65
- 2 collar shapes
- The lamps of the pushbuttons can also be replaced from the front
- The contact blocks (silver or gold contacts) snap onto the actuators with a coupling
- Screw, cage clamp, quick connect terminals or RJ12 connector
- 3 NC + 3 NO max.

The specified data apply only if actuators/signal indicators are combined with contact blocks and lamp sockets within the same product range.

**Content**

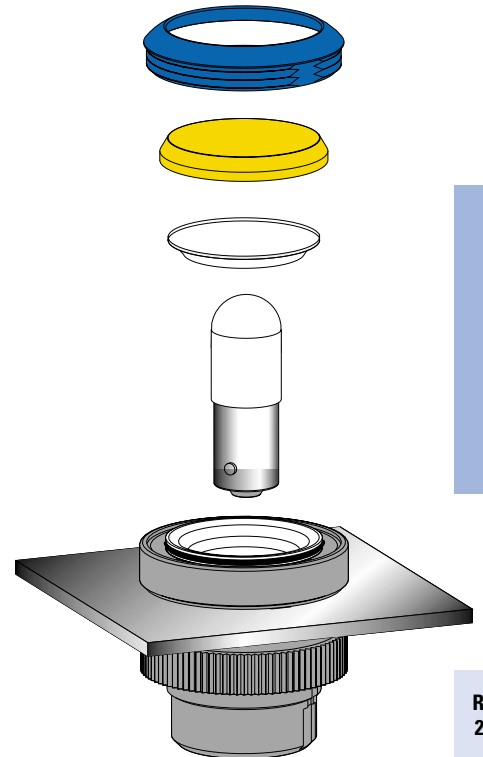
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**Contact blocks marked with different colours for ease of identification in stock and when connecting.**

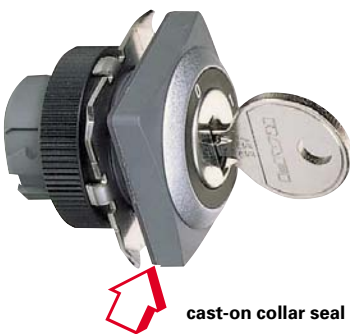
- NC contacts: red
- NO contacts: green
- NC/NO contacts: red/green
- Lamp socket: black
- Silver contacts: basic housing colour is black
- Gold contacts: basic housing colour is grey
- The terminals associated with a contact pair are colour coded on the connection side and marked with the respective contact numbers.



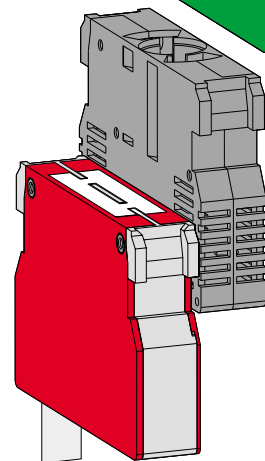
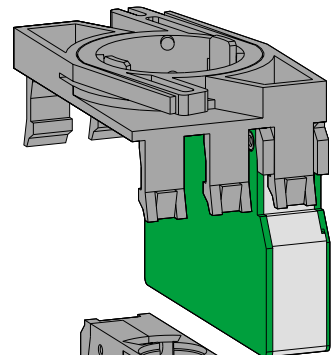
2

RAFIX 22 QR

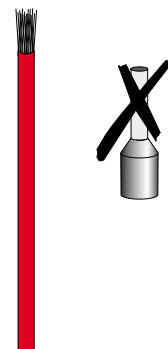
The lamps of pushbuttons and signal lamps can be replaced from the front. This method saves time and increases safety since it eliminates the need for accessing the machine/control station interior and handling live cables for lamp replacement. After unscrewing the front ring, the lens can be removed and the lamp replaced.



The components feature a removable locating lug. If installed without locating lug, the ring nut with claw can be used. Accurate alignment of the actuator can be achieved behind the front panel. The cast-on collar seal can not get lost nor be twisted during installation and allows single-person assembly: the actuator is held in the mounting hole by the cast-on seal and can then be fixed by screwing from the rear.



First, snap the lamp socket and contact blocks into the coupling. Then snap the assembly on to the actuator. To release it, the bayonet must be pressed (prevents inadvertent releasing at the same time).



## Terminals

The RAFIX 22 QR contact blocks are available in different connection styles as required for your application:

- **Screw terminals**  
The terminals are open and the captive screws are mounted in the terminal recess.
- **Quick connect/solder terminals 6.3 x 0.8 mm**
- **Cage clamp terminals**  
Simply insert a screwdriver to open the terminal, insert the cable and remove the screwdriver to close the terminal.
- **RJ 12-terminal**  
Just plug in the cable with a RJ 12 connector.

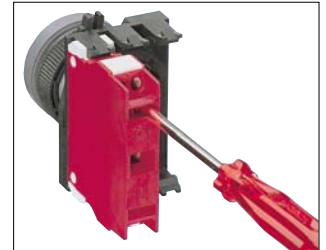
## Assembly

### Screw terminals

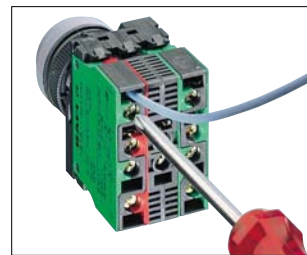
### Cage clamp terminals



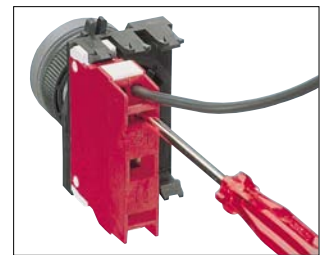
Insert the wire.



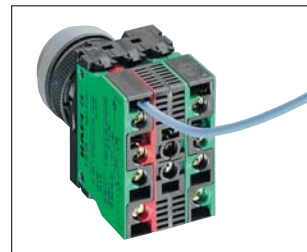
Open the terminal.



Tighten the screw.



Insert the wire.



Done.



Remove the screwdriver.

2

### Your advantage:

This offers your savings in three ways:

- Drastically reduced assembly time thanks to wire insertion from the rear, i.e. no more bending and lateral insertion of the wires required.
- You save material: No wire end sleeves are required.
- You save the time previously required for mounting the wire end sleeves.



### Sealed for life against humidity and dirt

The special seal reliably prevents moisture, oil and dust from penetrating to the contact block. In contrast to other sealing types which move up and down the shaft, this special seal is firmly seated on the housing (degree of protection IP 65 to DIN).

### Versatility of design for customized panels

The RAFIX 22 QR system does not only have a particularly low profile and is also available in many different versions. Your design options for your customized panels are nearly unlimited thanks to the interchangeable front rings and lenses. In this way you can achieve an attractive design while ensuring safe operation of your equipment at the same time. RAFIX 22 QR components are available either with a round or with a square collar.

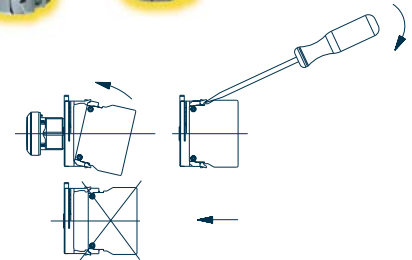
The RAFIX 22 QR control component range meets all the technical requirements and current standards for control units. The system is of modular design. Actuators, contact blocks and lamp sockets can be combined freely. This means that you may

implement modifications of design or configuration even at the last minute. An additional positive effect is the reduction of stockholding costs.



### Sequence of assembly/disassembly at screw, cage clamp and quick connect terminals


- Fix the actuator in the front panel with the ring nut.
- Snap the individual elements (a maximum three contact blocks or two contact blocks together with a lamp socket) in the coupling. You can install them on any assembling axis.
- Insert the lamp or LED into the lamp socket.
- Snap the coupling with the contact blocks on to the actuator.
- Connect the cables.
- Disassembly is performed in reverse order. To remove the coupling from the actuator, the latch lever must be pressed (by hand or with a screwdriver).

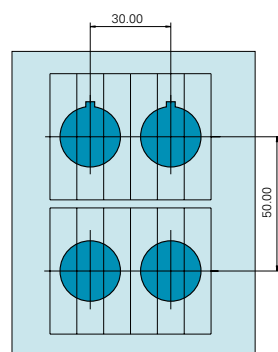


Assembly Disassembly

### Approvals

● = approved, ○ = pending

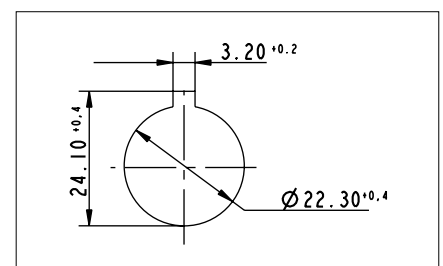
| Part no.     | BG zert. | VDE 0660 |  10/15 | ULc | GL |
|--------------|----------|----------|--|-----|----|
| 1.20 124.--- | ○        | ○        | ●  | ●   | ○  |
| 1.20 125.--- | ○        | ○        | ●  | ●   | ○  |
| 1.30 243.--- | ○        |          |  | ●   |    |
| 1.71 213.--- |          | ○        | ●  | ●   | ○  |
| 1.71 214.--- |          | ○        | ●  | ●   | ○  |



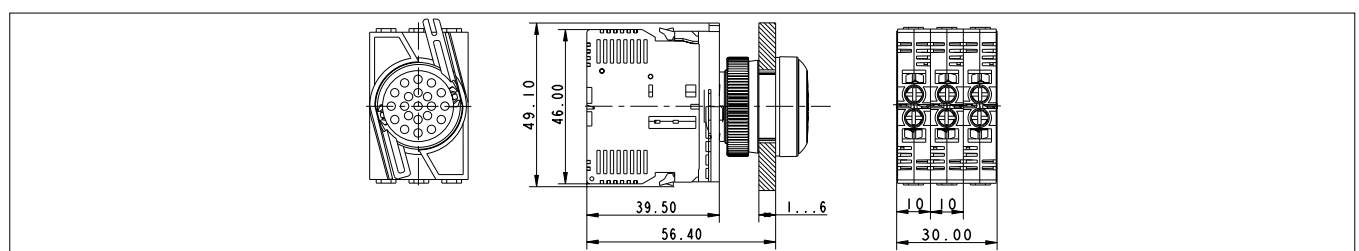
### Panel cut-out according to IEC 60947-5-1

All actuators are provided with a locating lug which may be removed using a screwdriver for installation into mounting holes if required.

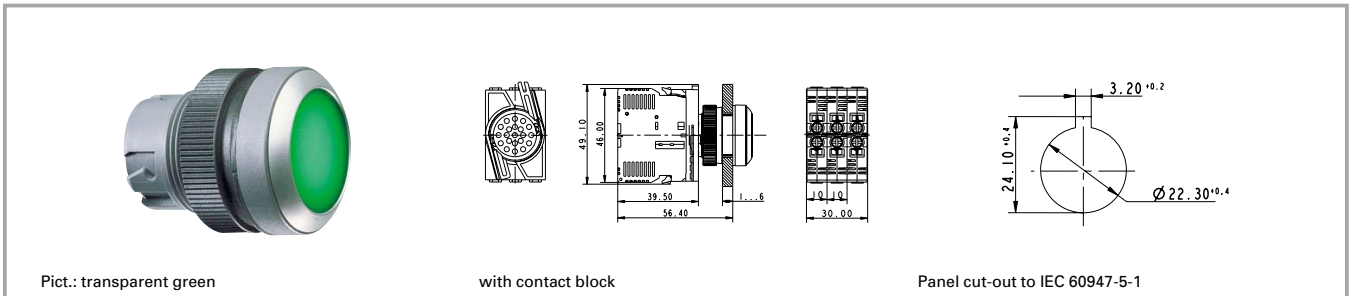
With a grid spacing of 30 mm horizontally and 50 mm vertically, the collars of the square actuators touch each other. We recommend to use the same grid spacing also for the round collar shapes (IEC 947).



### Dimensioned drawing



**RAFIX 22 QR pushbutton**



Pict.: transparent green

with contact block

Panel cut-out to IEC 60947-5-1

2

**Technical data**

**General information**

Form of lens see order block  
 Colour of lens see order block  
 Colour of front ring see order block  
 Form of collar see order block

**Dimensions**

Length of collar see order block  
 Width of collar see order block  
 Overall height see order block  
 Mounting depth with contact block without cable 56.4 mm  
 Mounting hole 22.3 mm  
 Key grid 50 x 30 mm  
 Diameter of collar see order block

**Mechanical design**

Mounting ring nut  
 Contact function see order block  
 Illuminability see order block

**Mechanical characteristics**

Operating travel 4 mm

Operating force max. approx. 5 N for 1 switching element  
 Robustness min. 100 N

**Other specifications**

Operating life (operations) 1 million momentary/  
 0.5 million latching  
 Degree of protection from front side IP65  
 Ambient temp. operating min. -25 °C  
 Ambient temp. operating max. +70 °C  
 Storage temperature min. -40 °C  
 Storage temperature max. +80 °C  
 Resistance to constant environment according to IEC 600 68-2-3 and 2-30  
 Resistance at variable environment according to IEC 600 68-2-14 and 2-33

RAFIX 22 QR

**Accessories RAFIX 22 QR pushbutton**

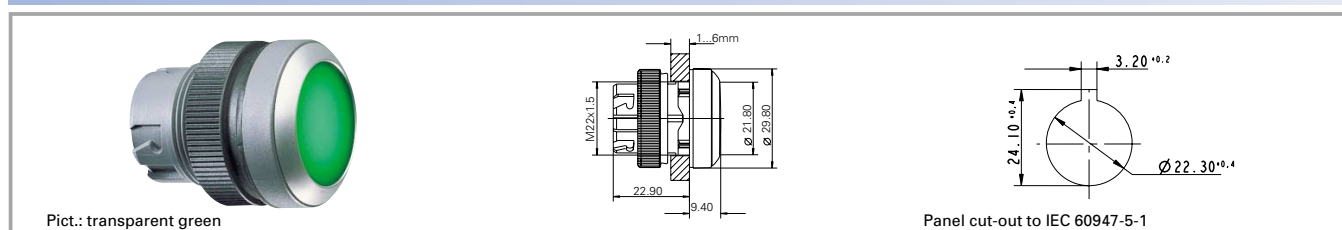
| Description   | Photo | Order no.                | Page    |
|---|-------|--------------------------|---------|
| RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NO       |       | <b>1.20.124.002/0000</b> | 2 - 126 |
| RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, screw terminals, 1 NC + 1 NO     |       | <b>1.20.124.027/0000</b> | 2 - 127 |
| RAFIX 22 QR contact block with gold contacts, with coupling and lamp socket, screw terminals, 1 NO              |       | 1.20.124.122/0000        | 2 - 131 |
| RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, cage clamp terminals, 1 NO, 1 NC |       | <b>1.20.125.025/0000</b> | 2 - 127 |
| Contact block with RJ 12 connector, 2 NO, white LED   |       | 1.20.128.015/0000        | 2 - 133 |
| Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V  |       | <b>1.90.060.133/0000</b> | 5 - 8   |
| LED BA 9s (MBC/MCC) superbright, white, 24 V  |       | <b>1.90.690.345/0000</b> | 5 - 19  |

**Accessories RAFIX 22 QR pushbutton**

| Description  | Photo  | Order no.                | Page    |
|--|--|--------------------------|---------|
| Fixing spanner for ring nut and front ring                               |  | <b>5.05.800.062/0000</b> | 5 - 23  |
| Label holder, round collar, with adhesive tape and release liner on back |  | 5.07.620.010/0000        | 2 - 143 |

For other contact blocks, refer to the chapter „Contact blocks“; for additional accessories, refer to „RAFIX 22 QR special accessories“.

**RAFIX 22 QR pushbutton, flush lens, round collar**



| Illuminability | Colour of lens     | Order no. momentary |                          | Order no. latching |                          |
|----------------|--------------------|---------------------|--------------------------|--------------------|--------------------------|
|                |                    | Plastic front ring  | Metallized front ring    | Plastic front ring | Metallized front ring    |
| yes            | transparent white  | 1.30.240.001/10xx   | <b>1.30.240.021/1000</b> | 1.30.240.011/10xx  | <b>1.30.240.031/1000</b> |
| yes            | transparent red    | 1.30.240.001/13xx   | <b>1.30.240.021/1300</b> | 1.30.240.011/13xx  | <b>1.30.240.031/1300</b> |
| yes            | transparent yellow | 1.30.240.001/14xx   | <b>1.30.240.021/1400</b> | 1.30.240.011/14xx  | <b>1.30.240.031/1400</b> |
| yes            | transparent green  | 1.30.240.001/15xx   | <b>1.30.240.021/1500</b> | 1.30.240.011/15xx  | <b>1.30.240.031/1500</b> |
| yes            | transparent blue   | 1.30.240.001/16xx   | <b>1.30.240.021/1600</b> | 1.30.240.011/16xx  | <b>1.30.240.031/1600</b> |
| no             | opaque black       | 1.30.240.101/01xx   | <b>1.30.240.121/0100</b> | 1.30.240.111/01xx  | 1.30.240.131/0100        |
| no             | opaque white       | 1.30.240.101/02xx   | <b>1.30.240.121/0200</b> | 1.30.240.111/02xx  | 1.30.240.131/0200        |
| no             | opaque red         | 1.30.240.101/03xx   | <b>1.30.240.121/0300</b> | 1.30.240.111/03xx  | 1.30.240.131/0300        |
| no             | opaque yellow      | 1.30.240.101/04xx   | <b>1.30.240.121/0400</b> | 1.30.240.111/04xx  | 1.30.240.131/0400        |
| no             | opaque green       | 1.30.240.101/05xx   | <b>1.30.240.121/0500</b> | 1.30.240.111/05xx  | 1.30.240.131/0500        |
| no             | opaque blue        | 1.30.240.101/06xx   | <b>1.30.240.121/0600</b> | 1.30.240.111/06xx  | 1.30.240.131/0600        |
| no             | opaque slate-grey  | 1.30.240.101/07xx   | <b>1.30.240.121/0700</b> | 1.30.240.111/07xx  | 1.30.240.131/0700        |

Technical data see page 2 - 88

**Accessories:**

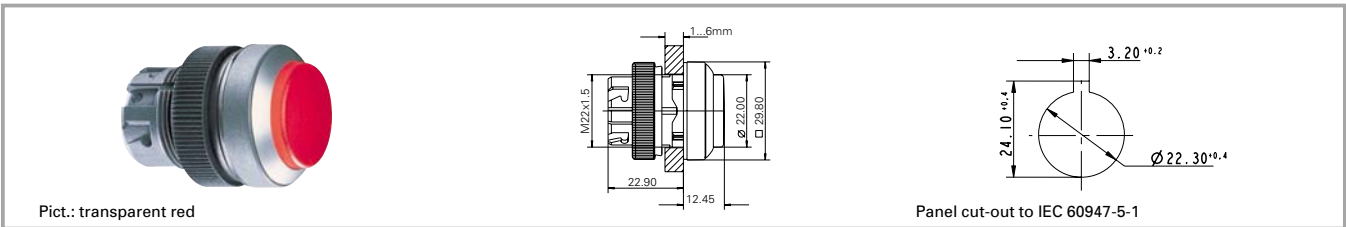
- Front ring, plastic with thermoflex protective cap, black: **5.05.004.914/0100**
- Front ring, plastic with protective cap, slate grey: 5.05.004.914/0700
- Front ring, plastic with thermoflex protective cap, silver grey: 5.05.004.914/0800
- Schutzklappe, selbstschließend: 5.05.511.194/0000
- Protective cover, latching: 5.05.511.195/0000

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

Pushbuttons with plastic front ring and white lens are also available with the following front ring colours: red = 03, yellow = 04, green = 05, blue = 06. Other colour combinations on request.

Order numbers **1.30.240.001/--08**, **1.30.240.011/--08** and **1.30.240.101/--08** (with silver grey plastic front ring) are **stock items**.

**RAFIX 22 QR pushbutton, protruding lens, round collar**



Pict.: transparent red

Panel cut-out to IEC 60947-5-1

| Illuminability | Colour of lens     | Order no. momentary |                          | Order no. latching |                          |
|----------------|--------------------|---------------------|--------------------------|--------------------|--------------------------|
|                |                    | Plastic front ring  | Metallized front ring    | Plastic front ring | Metallized front ring    |
| yes            | transparent white  | 1.30.240.201/10xx   | <b>1.30.240.221/1000</b> | 1.30.240.211/10xx  | <b>1.30.240.231/1000</b> |
| yes            | transparent red    | 1.30.240.201/13xx   | <b>1.30.240.221/1300</b> | 1.30.240.211/13xx  | <b>1.30.240.231/1300</b> |
| yes            | transparent yellow | 1.30.240.201/14xx   | <b>1.30.240.221/1400</b> | 1.30.240.211/14xx  | <b>1.30.240.231/1400</b> |
| yes            | transparent green  | 1.30.240.201/15xx   | <b>1.30.240.221/1500</b> | 1.30.240.211/15xx  | <b>1.30.240.231/1500</b> |
| yes            | transparent blue   | 1.30.240.201/16xx   | <b>1.30.240.221/1600</b> | 1.30.240.211/16xx  | <b>1.30.240.231/1600</b> |
| no             | opaque black       | 1.30.240.301/01xx   | 1.30.240.321/0100        | 1.30.240.311/01xx  | 1.30.240.331/0100        |
| no             | opaque white       | 1.30.240.301/02xx   | 1.30.240.321/0200        | 1.30.240.311/02xx  | 1.30.240.331/0200        |
| no             | opaque red         | 1.30.240.301/03xx   | 1.30.240.321/0300        | 1.30.240.311/03xx  | 1.30.240.331/0300        |
| no             | opaque yellow      | 1.30.240.301/04xx   | 1.30.240.321/0400        | 1.30.240.311/04xx  | 1.30.240.331/0400        |
| no             | opaque green       | 1.30.240.301/05xx   | 1.30.240.321/0500        | 1.30.240.311/05xx  | 1.30.240.331/0500        |
| no             | opaque blue        | 1.30.240.301/06xx   | 1.30.240.321/0600        | 1.30.240.311/06xx  | 1.30.240.331/0600        |
| no             | opaque slate-grey  | 1.30.240.301/07xx   | 1.30.240.321/0700        | 1.30.240.311/07xx  | 1.30.240.331/0700        |

Technical data see page 2 - 88

**Accessories:**

Legend insert without legend: **5.70.802.000/2000**

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

Pushbuttons with plastic front ring and white lens are also available with the following front ring colours: red = 03, yellow = 04, green = 05, blue = 06. Other colour combinations on request.

Order numbers **1.30.240.201/--08** and **1.30.240.211/--08** (with silver grey plastic front ring) are **stock items**.

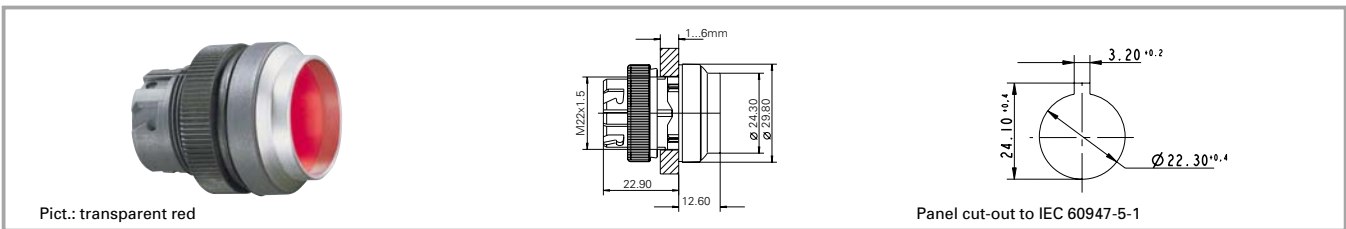
2

RAFIX  
22 QR

**Stock items** are marked by **bold printed** order numbers.



**RAFIX 22 QR pushbutton, protruding front ring, round collar**



| Illuminability | Colour of lens     | Order no. momentary |                       | Order no. latching |                       |
|----------------|--------------------|---------------------|-----------------------|--------------------|-----------------------|
|                |                    | Plastic front ring  | Metallized front ring | Plastic front ring | Metallized front ring |
| yes            | transparent white  | 1.30.240.401/10xx   | 1.30.240.421/1000     | -                  | -                     |
| yes            | transparent red    | 1.30.240.401/13xx   | 1.30.240.421/1300     | -                  | -                     |
| yes            | transparent yellow | 1.30.240.401/14xx   | 1.30.240.421/1400     | -                  | -                     |
| yes            | transparent green  | 1.30.240.401/15xx   | 1.30.240.421/1500     | -                  | -                     |
| yes            | transparent blue   | 1.30.240.401/16xx   | 1.30.240.421/1600     | -                  | -                     |
| no             | opaque black       | 1.30.240.501/01xx   | 1.30.240.521/0100     | -                  | -                     |
| no             | opaque white       | 1.30.240.501/02xx   | 1.30.240.521/0200     | -                  | -                     |
| no             | opaque red         | 1.30.240.501/03xx   | 1.30.240.521/0300     | -                  | -                     |
| no             | opaque yellow      | 1.30.240.501/04xx   | 1.30.240.521/0400     | -                  | -                     |
| no             | opaque green       | 1.30.240.501/05xx   | 1.30.240.521/0500     | -                  | -                     |
| no             | opaque blue        | 1.30.240.501/06xx   | 1.30.240.521/0600     | -                  | -                     |
| no             | opaque slate-grey  | 1.30.240.501/07xx   | 1.30.240.521/0700     | -                  | -                     |

Technical data see page 2 - 88

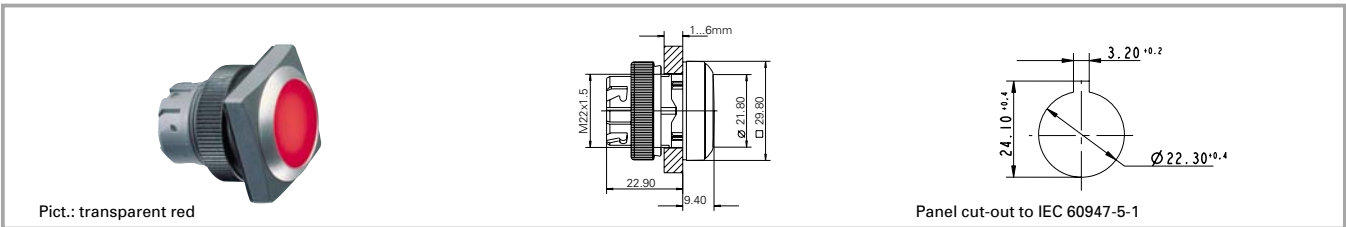
xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

The protruding collar offers protection against inadvertent operation and thereby fulfils the safety requirements of various machinery manufacturers, particularly from the printing industry.

2

RAFIX 22 QR

**RAFIX 22 QR pushbutton, flush lens, square collar**



Pict.: transparent red

Panel cut-out to IEC 60947-5-1

| Illuminability | Colour of lens     | Order no. momentary |                          | Order no. latching |                          |
|----------------|--------------------|---------------------|--------------------------|--------------------|--------------------------|
|                |                    | Plastic front ring  | Metallized front ring    | Plastic front ring | Metallized front ring    |
| yes            | transparent white  | 1.30.240.051/10xx   | <b>1.30.240.071/1000</b> | 1.30.240.061/10xx  | <b>1.30.240.081/1000</b> |
| yes            | transparent red    | 1.30.240.051/13xx   | <b>1.30.240.071/1300</b> | 1.30.240.061/13xx  | <b>1.30.240.081/1300</b> |
| yes            | transparent yellow | 1.30.240.051/14xx   | <b>1.30.240.071/1400</b> | 1.30.240.061/14xx  | <b>1.30.240.081/1400</b> |
| yes            | transparent green  | 1.30.240.051/15xx   | <b>1.30.240.071/1500</b> | 1.30.240.061/15xx  | <b>1.30.240.081/1500</b> |
| yes            | transparent blue   | 1.30.240.051/16xx   | <b>1.30.240.071/1600</b> | 1.30.240.061/16xx  | <b>1.30.240.081/1600</b> |
| no             | opaque black       | 1.30.240.151/01xx   | <b>1.30.240.171/0100</b> | 1.30.240.161/01xx  | 1.30.240.181/0100        |
| no             | opaque white       | 1.30.240.151/02xx   | <b>1.30.240.171/0200</b> | 1.30.240.161/02xx  | 1.30.240.181/0200        |
| no             | opaque red         | 1.30.240.151/03xx   | <b>1.30.240.171/0300</b> | 1.30.240.161/03xx  | 1.30.240.181/0300        |
| no             | opaque yellow      | 1.30.240.151/04xx   | <b>1.30.240.171/0400</b> | 1.30.240.161/04xx  | 1.30.240.181/0400        |
| no             | opaque green       | 1.30.240.151/05xx   | <b>1.30.240.171/0500</b> | 1.30.240.161/05xx  | 1.30.240.181/0500        |
| no             | opaque blue        | 1.30.240.151/06xx   | <b>1.30.240.171/0600</b> | 1.30.240.161/06xx  | 1.30.240.181/0600        |
| no             | opaque slate-grey  | 1.30.240.151/07xx   | <b>1.30.240.171/0700</b> | 1.30.240.161/07xx  | 1.30.240.181/0700        |

Technical data see page 2 - 88

**Accessories:**

Front ring, plastic with thermoflex protective cap, black: **5.05.004.914/0100**

Front ring, plastic with protective cap, slate grey: 5.05.004.914/0700

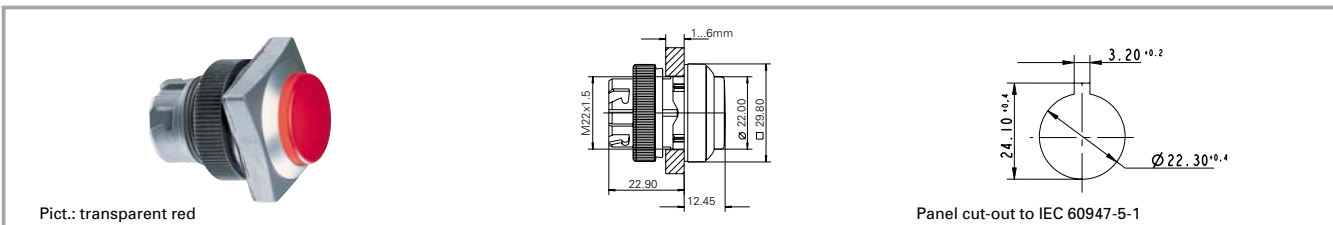
Front ring, plastic with thermoflex protective cap, silver grey: 5.05.004.914/0800

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

Pushbuttons with plastic front ring and white lens are also available with the following front ring colours: red = 03, yellow = 04, green = 05, blue = 06. Other colour combinations on request.

Order numbers **1.30.240.051/--08**, **1.30.240.061/--08** and **1.30.240.151/--08** (with silver grey plastic front ring) are **stock items**.

**RAFIX 22 QR pushbutton, protruding lens, square collar**



| Illuminability | Colour of lens     | Order no. momentary |                          | Order no. latching |                          |
|----------------|--------------------|---------------------|--------------------------|--------------------|--------------------------|
|                |                    | Plastic front ring  | Metallized front ring    | Plastic front ring | Metallized front ring    |
| yes            | transparent white  | 1.30.240.251/10xx   | <b>1.30.240.271/1000</b> | 1.30.240.261/10xx  | <b>1.30.240.281/1000</b> |
| yes            | transparent red    | 1.30.240.251/13xx   | <b>1.30.240.271/1300</b> | 1.30.240.261/13xx  | <b>1.30.240.281/1300</b> |
| yes            | transparent yellow | 1.30.240.251/14xx   | <b>1.30.240.271/1400</b> | 1.30.240.261/14xx  | <b>1.30.240.281/1400</b> |
| yes            | transparent green  | 1.30.240.251/15xx   | <b>1.30.240.271/1500</b> | 1.30.240.261/15xx  | <b>1.30.240.281/1500</b> |
| yes            | transparent blue   | 1.30.240.251/16xx   | <b>1.30.240.271/1600</b> | 1.30.240.261/16xx  | <b>1.30.240.281/1600</b> |
| no             | opaque black       | 1.30.240.351/01xx   | 1.30.240.371/0100        | 1.30.240.361/01xx  | 1.30.240.381/0100        |
| no             | opaque white       | 1.30.240.351/02xx   | 1.30.240.371/0200        | 1.30.240.361/02xx  | 1.30.240.381/0200        |
| no             | opaque red         | 1.30.240.351/03xx   | 1.30.240.371/0300        | 1.30.240.361/03xx  | 1.30.240.381/0300        |
| no             | opaque yellow      | 1.30.240.351/04xx   | 1.30.240.371/0400        | 1.30.240.361/04xx  | 1.30.240.381/0400        |
| no             | opaque green       | 1.30.240.351/05xx   | 1.30.240.371/0500        | 1.30.240.361/05xx  | 1.30.240.381/0500        |
| no             | opaque blue        | 1.30.240.351/06xx   | 1.30.240.371/0600        | 1.30.240.361/06xx  | 1.30.240.381/0600        |
| no             | opaque slate-grey  | 1.30.240.351/07xx   | 1.30.240.371/0700        | 1.30.240.361/07xx  | 1.30.240.381/0700        |

Technical data see page 2 - 88

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

Pushbuttons with plastic front ring and white lens are also available with the following front ring colours: red = 03, yellow = 04, green = 05, blue = 06. Other colour combinations on request.

Order numbers **1.30.240.251/--08** and **1.30.240.261/--08** (with silver grey plastic front ring) are **stock items**.

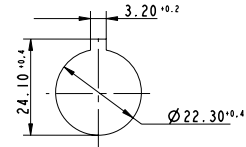
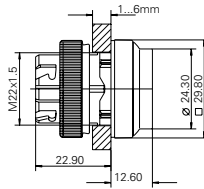
2

RAFIX 22 QR

**RAFIX 22 QR pushbutton, protruding front ring, square collar**



Pict.: transparent green



Panel cut-out to IEC 60947-5-1

| Illuminability | Colour of lens     | Order no. momentary |                       | Order no. latching |                       |
|----------------|--------------------|---------------------|-----------------------|--------------------|-----------------------|
|                |                    | Plastic front ring  | Metallized front ring | Plastic front ring | Metallized front ring |
| yes            | transparent white  | 1.30.240.451/10xx   | 1.30.240.471/1000     | -                  | -                     |
| yes            | transparent red    | 1.30.240.451/13xx   | 1.30.240.471/1300     | -                  | -                     |
| yes            | transparent yellow | 1.30.240.451/14xx   | 1.30.240.471/1400     | -                  | -                     |
| yes            | transparent green  | 1.30.240.451/15xx   | 1.30.240.471/1500     | -                  | -                     |
| yes            | transparent blue   | 1.30.240.451/16xx   | 1.30.240.471/1600     | -                  | -                     |
| no             | opaque black       | 1.30.240.551/01xx   | 1.30.240.571/0100     | -                  | -                     |
| no             | opaque white       | 1.30.240.551/02xx   | 1.30.240.571/0200     | -                  | -                     |
| no             | opaque red         | 1.30.240.551/03xx   | 1.30.240.571/0300     | -                  | -                     |
| no             | opaque yellow      | 1.30.240.551/04xx   | 1.30.240.571/0400     | -                  | -                     |
| no             | opaque green       | 1.30.240.551/05xx   | 1.30.240.571/0500     | -                  | -                     |
| no             | opaque blue        | 1.30.240.551/06xx   | 1.30.240.571/0600     | -                  | -                     |
| no             | opaque slate-grey  | 1.30.240.551/07xx   | 1.30.240.571/0700     | -                  | -                     |

Technical data see page 2 - 88

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

The protruding collar offers protection against inadvertent operation and thereby fulfils the safety requirements of various machinery manufacturers, particularly in the industry.

2

RAFIX  
22 QR

**RAFIX 22 QR selector switch**



Pict.: Front ring, black, non-illuminated

Front ring, metallized, illuminated

Panel cut-out to IEC 60947-5-1

2

**General data**

The illuminated selector switches are provided with translucent handle markings. These are opaque on the non-illuminated versions.

**Technical data**

**General information**

|                      |                 |
|----------------------|-----------------|
| Actuator             | handle          |
| Marking of handle    | white           |
| Colour of front ring | see order block |
| Form of collar       | see order block |

**Dimensions**

|   |                 |
|---|-----------------|
| Length of collar                                | see order block |
| Width of collar                                 | see order block |
| Overall height                                  | 22.2 mm         |
| Mounting depth with contact block without cable | 56.4 mm         |
| Mounting hole                                   | 22.3 mm         |
| Key grid  | 50 x 30 mm      |
| Diameter of collar                              | see order block |

**Mechanical design**

|                  |                 |
|------------------|-----------------|
| Mounting         | ring nut        |
| Contact function | see order block |
| Illuminability   | see order block |
| Rotating angle   | see order block |

**Mechanical characteristics**

|                      |  |
|----------------------|--|
| Operating force max. | approx. 5 N for<br>1 switching element |
| Torque max.          | 2 Nm                                   |

**Electrical characteristics**

|                  |    |
|------------------|----|
| Protection class | II |
|------------------|----|

**Other specifications**

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| Operating life                       | 0.5 million                           |
| Degree of protection from front side | IP65                                  |
| Ambient temp. operating min.         | -27 °C                                |
| Ambient temp. operating max.         | +70 °C                                |
| Storage temperature min.             | -40 °C                                |
| Storage temperature max.             | +80 °C                                |
| Resistance to constant environment   | according to IEC 600 68-2-3 and 2-30  |
| Resistance at variable environment   | according to IEC 600 68-2-14 and 2-33 |

**Accessories RAFIX 22 QR selector switch**

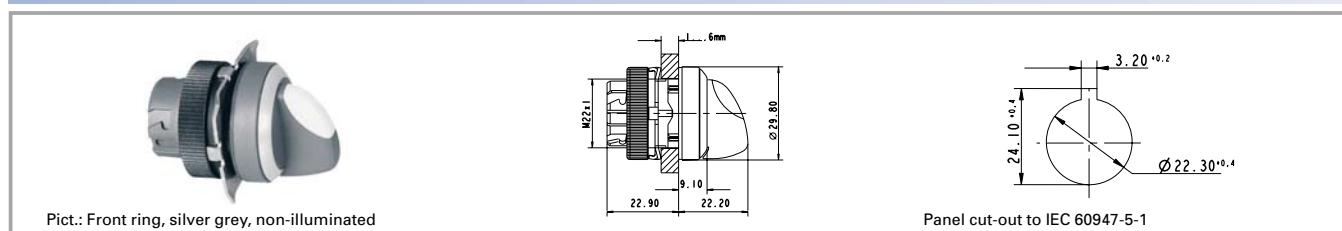
| Description  | Photo | Order no.                | Page    |
|--|-------|--------------------------|---------|
| RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NC + 1 NO       |       | <b>1.20.124.017/0000</b> | 2 - 126 |
| RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, screw terminals, 1 NC + 1 NO            |       | <b>1.20.124.027/0000</b> | 2 - 127 |
| RAFIX 22 QR contact block with gold contacts, with coupling and lamp socket, screw terminals, 1 NC + 1 NO, 1 NC + 1 NO |       | 1.20.124.128/0000        | 2 - 131 |
| Contact block with coupling, gold contacts, RJ 12 connector, 1 NC + 1 NO, white LED                                    |       | 1.20.128.013/0000        | 2 - 133 |

**Accessories RAFIX 22 QR selector switch**













| Description  | Photo   | Order no.         | Page    |
|--|---|-------------------|---------|
| Label holder, round collar, with adhesive tape and release liner on back |  | 5.07.620.010/0000 | 2 - 143 |

For other contact blocks, refer to the chapter „Contact blocks“; for additional accessories, refer to „RAFIX 22 QR special accessories“.

**RAFIX 22 QR selector switch, round collar, short handle**



2

| Illuminability | Contact function | Rotating angle  | Rotating angle  | Order no.          |                          |
|----------------|------------------|-----------------|---|--------------------|--------------------------|
|                |                  |                 |   | Plastic front ring | Metal front ring         |
| no             | momentary        | 1 x 40°         |   | 1.30.242.501/02xx  | <b>1.30.242.502/0200</b> |
| no             | momentary        | 2 x 40°         |  | 1.30.242.526/02xx  | <b>1.30.242.527/0200</b> |
| no             | latching         | 1 x 90°, form L |  | 1.30.242.601/02xx  | <b>1.30.242.602/0200</b> |
| no             | latching         | 1 x 90°, form V |  | 1.30.242.701/02xx  | <b>1.30.242.702/0200</b> |
| no             | latching         | 2 x 60°         |  | 1.30.242.801/02xx  | <b>1.30.242.802/0200</b> |
| no             | latching         | 2 x 90°         |  | 1.30.242.626/02xx  | 1.30.242.627/0200        |
| yes            | momentary        | 1 x 40°         |  | 1.30.242.001/22xx  | <b>1.30.242.002/2200</b> |
| yes            | momentary        | 2 x 40°         |  | 1.30.242.026/22xx  | <b>1.30.242.027/2200</b> |
| yes            | latching         | 1 x 90°, form L |  | 1.30.242.101/22xx  | <b>1.30.242.102/2200</b> |
| yes            | latching         | 1 x 90°, form V |  | 1.30.242.201/22xx  | <b>1.30.242.202/2200</b> |
| yes            | latching         | 2 x 60°         |  | 1.30.242.301/22xx  | <b>1.30.242.302/2200</b> |
| yes            | latching         | 2 x 90°         |  | 1.30.242.126/22xx  | 1.30.242.127/2200        |

RAFIX 22 QR

Technical data see page 2 - 96

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08; other colours on request.

Included: Ring nut with claw.

Other contact versions on request

On keylock switches with 3 switching positions (e.g. 2 x 90 degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation. A third contact block arranged in the centre would be actuated with either sense of rotation.

The following selector switches with silver grey plastic front ring are stock items:

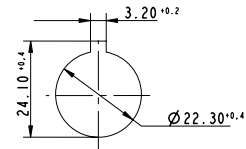
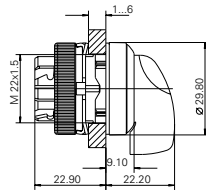
Illuminated: **1.30.252.001/2208, 1.30.252.026/2208, 1.30.252.101/2208, 1.30.252.201/2208, 1.30.252.301/2208**

Non-illuminated: **1.30.252.501/0208, 1.30.252.526/0208, 1.30.252.601/0208, 1.30.252.701/0208, 1.30.252.801/0208**

**RAFIX 22 QR selector switch, round collar, long handle**



Pict.: Front ring, metallized, illuminated



Panel cut-out to IEC 60947-5-1

2

| Illuminability | Contact function | Rotating angle  | Rotating angle | Order no.          |                   |
|----------------|------------------|-----------------|----------------|--------------------|-------------------|
|                |                  |                 |                | Plastic front ring | Metal front ring  |
| no             | momentary        | 1 x 40°         |                | 1.30.242.511/02xx  | 1.30.242.512/0200 |
| no             | momentary        | 2 x 40°         |                | 1.30.242.536/02xx  | 1.30.242.537/0200 |
| no             | latching         | 1 x 90°, form L |                | 1.30.242.611/02xx  | 1.30.242.612/0200 |
| no             | latching         | 1 x 90°, form V |                | 1.30.242.711/02xx  | 1.30.242.712/0200 |
| no             | latching         | 2 x 60°         |                | 1.30.242.811/02xx  | 1.30.242.812/0200 |
| no             | latching         | 2 x 90°         |                | 1.30.242.636/02xx  | 1.30.242.637/0200 |
| yes            | momentary        | 1 x 40°         |                | 1.30.242.011/22xx  | 1.30.242.012/2200 |
| yes            | momentary        | 2 x 40°         |                | 1.30.242.036/22xx  | 1.30.242.037/2200 |
| yes            | latching         | 1 x 90°, form L |                | 1.30.242.111/22xx  | 1.30.242.112/2200 |
| yes            | latching         | 1 x 90°, form V |                | 1.30.242.211/22xx  | 1.30.242.212/2200 |
| yes            | latching         | 2 x 60°         |                | 1.30.242.311/22xx  | 1.30.242.312/2200 |
| yes            | latching         | 2 x 90°         |                | 1.30.242.136/22xx  | 1.30.242.137/2200 |

Technical data see page 2 - 96

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08; other colours on request.

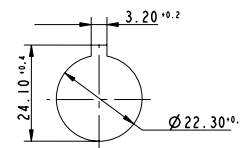
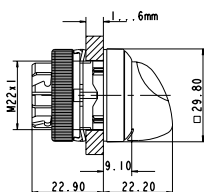
Included: Ring nut with claw.

At selector switches with 3 switching positions (e.g. 2 x 90 degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation. A third contact block arranged in the centre would be actuated with either sense of rotation. Other contact versions on request.

**RAFIX 22 QR selector switch, square collar, short handle**



Pict.: Front ring, red, non-illuminated



Panel cut-out to IEC 60947-5-1

| Illuminability | Contact function | Rotating angle  | Rotating angle | Order no.          |                          |
|----------------|------------------|-----------------|----------------|--------------------|--------------------------|
|                |                  |                 |                | Plastic front ring | Metal front ring         |
| no             | momentary        | 1 x 40°         |                | 1.30.242.551/02xx  | <b>1.30.242.552/0200</b> |
| no             | momentary        | 2 x 40°         |                | 1.30.242.576/02xx  | <b>1.30.242.577/0200</b> |
| no             | latching         | 1 x 90°, form L |                | 1.30.242.651/02xx  | <b>1.30.242.652/0200</b> |
| no             | latching         | 1 x 90°, form V |                | 1.30.242.751/02xx  | <b>1.30.242.752/0200</b> |
| no             | latching         | 2 x 60°         |                | 1.30.242.851/02xx  | <b>1.30.242.852/0200</b> |
| no             | latching         | 2 x 90°         |                | 1.30.242.676/02xx  | 1.30.242.677/0200        |
| yes            | momentary        | 1 x 40°         |                | 1.30.242.051/22xx  | <b>1.30.242.052/2200</b> |
| yes            | momentary        | 2 x 40°         |                | 1.30.242.076/22xx  | <b>1.30.242.077/2200</b> |
| yes            | latching         | 1 x 90°, form L |                | 1.30.242.151/22xx  | <b>1.30.242.152/2200</b> |
| yes            | latching         | 1 x 90°, form V |                | 1.30.242.251/22xx  | <b>1.30.242.252/2200</b> |
| yes            | latching         | 2 x 60°         |                | 1.30.242.351/22xx  | <b>1.30.242.352/2200</b> |
| yes            | latching         | 2 x 90°         |                | 1.30.242.176/22xx  | 1.30.242.177/2200        |

Technical data see page 2 - 96

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08; other colours on request.

Included: Ring nut with claw.

At selector switches with 3 switching positions (e.g. 2 x 90 degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation.

A third contact block arranged in the centre would be actuated with either sense of rotation.

Other contact versions on request.

The following selector switches with silver grey plastic front ring are stock items:

Illuminated: **1.30.242.051/2208**, **1.30.242.076/2208**, **1.30.242.151/2208**, **1.30.242.251/2208**, **1.30.242.351/2208**

Non-illuminated: **1.30.242.551/0208**, **1.30.242.576/0208**, **1.30.242.651/0208**, **1.30.242.751/0208**, **1.30.242.851/0208**

2

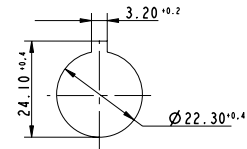
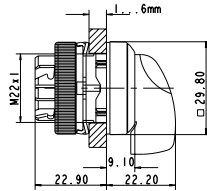
RAFIX  
22 QR



**RAFIX 22 QR selector switch, square collar, long handle**



Pict.: Front ring, black, non-illuminated



Panel cut-out to IEC 60947-5-1

2

RAFIX  
22 QR

| Illuminability | Contact function | Rotating angle  | Rotating angle | Order no.          |                   |
|----------------|------------------|-----------------|----------------|--------------------|-------------------|
|                |                  |                 |                | Plastic front ring | Metal front ring  |
| no             | momentary        | 1 x 40°         |                | 1.30.242.561/02xx  | 1.30.242.562/0200 |
| no             | momentary        | 2 x 40°         |                | 1.30.242.586/02xx  | 1.30.242.587/0200 |
| no             | latching         | 1 x 90°, form L |                | 1.30.242.661/02xx  | 1.30.242.662/0200 |
| no             | latching         | 1 x 90°, form V |                | 1.30.242.761/02xx  | 1.30.242.762/0200 |
| no             | latching         | 2 x 60°         |                | 1.30.242.861/02xx  | 1.30.242.862/0200 |
| no             | latching         | 2 x 90°         |                | 1.30.242.686/02xx  | 1.30.242.687/0200 |
| yes            | momentary        | 1 x 40°         |                | 1.30.242.061/22xx  | 1.30.242.062/2200 |
| yes            | momentary        | 2 x 40°         |                | 1.30.242.086/22xx  | 1.30.242.087/2200 |
| yes            | latching         | 1 x 90°, form L |                | 1.30.242.161/22xx  | 1.30.242.162/2200 |
| yes            | latching         | 1 x 90°, form V |                | 1.30.242.261/22xx  | 1.30.242.262/2200 |
| yes            | latching         | 2 x 60°         |                | 1.30.242.361/22xx  | 1.30.242.362/2200 |
| yes            | latching         | 2 x 90°         |                | 1.30.242.186/22xx  | 1.30.242.187/2200 |

Technical data see page 2 - 96

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08; other colours on request.

Included: Ring nut with claw.

At selector switches with 3 switching positions (e.g. 2 x 90 degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation. A third contact block arranged in the centre would be actuated with either sense of rotation. Other contact versions on request.

**RAFIX 22 QR keylock switch**



2

**Technical data**

**General information**

Form of lens see order block  
 Colour of front ring see order block  
 Form of collar see order block

**Dimensions**

Length of collar see order block  
 Width of collar see order block  
 Overall height 30.6 mm  
 Mounting depth with contact block without cable 56.4 mm  
 Mounting hole 22.3 mm  
 Key grid 50 x 30 mm  
 Diameter of collar see order block

**Mechanical design**

Mounting ring nut  
 Contact function see order block  
 Illuminability no  
 Lock Ronis  
 Wafers 4  
 Lock type 455  
 Main key no  
 Symmetric key no  
 Rotating angle see order block  
 Key removal position see order block

**Mechanical characteristics**

Operating force max. approx. 5 N for 1 switching element  
 Torque max. 2 Nm

**Electrical characteristics**

Protection class II

**Other specifications**

Operating life 0.3 million momentary / 50000 latching  
 Degree of protection from front side IP65  
 Ambient temp. operating min. -25 °  
 Ambient temp. operating max. +70 °  
 Storage temperature min. -40 °C  
 Storage temperature max. +80 °C  
 Resistance to constant environment according to IEC 600 68-2-3 and 2-30  
 Resistance at variable environment according to IEC 600 68-2-14 and 2-33

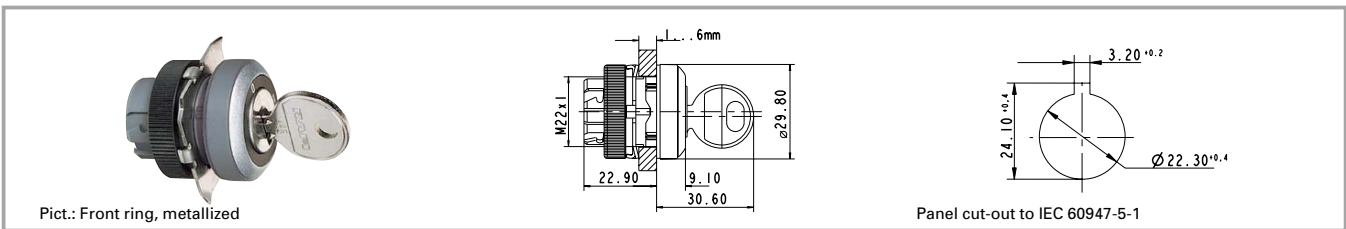
RAFIX 22 QR

**Accessories RAFIX 22 QR keylock switch**

| Description  | Photo | Order no.         | Page    |
|--|-------|-------------------|---------|
| RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NC + 1 NO |       | 1.20.124.017/0000 | 2 - 126 |
| RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, cage clamp terminals, 1 NO   |       | 1.20.125.002/0000 | 2 - 126 |
| Contact block with coupling, gold contacts, RJ 12 connector, 1 NC + 1 NO, without LED                            |       | 1.20.128.003/0000 | 2 - 133 |
| Label holder, round collar, with adhesive tape and release liner on back   |       | 5.07.620.010/0000 | 2 - 143 |
| Spare key for RAFIX 22 QR  |       | 5.58.017.001/0000 |         |

For other contact blocks, refer to the chapter „Contact blocks“; for additional accessories, refer to „RAFIX 22 QR special accessories“.

**RAFIX 22 QR keylock switch, round collar**



| Contact function | Rotating angle  | Key removal position | Rotating angle | Order no.          |                          |
|------------------|-----------------|----------------------|----------------|--------------------|--------------------------|
|                  |                 |                      |                | Plastic front ring | Metal front ring         |
| momentary        | 1 x 40°         | 0                    |                | 1.30.245.001/xxxx  | <b>1.30.245.002/0000</b> |
| momentary        | 2 x 40°         | 0                    |                | 1.30.245.101/xxxx  | 1.30.245.102/0000        |
| latching         | 1 x 90°, form L | 0                    |                | 1.30.245.201/xxxx  | <b>1.30.245.202/0000</b> |
| latching         | 1 x 90°, form L | 0+1                  |                | 1.30.245.221/xxxx  | <b>1.30.245.222/0000</b> |
| latching         | 1 x 90°, form V | 0                    |                | 1.30.245.301/xxxx  | <b>1.30.245.302/0000</b> |
| latching         | 1 x 90°, form V | 0+1                  |                | 1.30.245.321/xxxx  | <b>1.30.245.322/0000</b> |
| latching         | 2 x 60°         | 0+1+2                |                | 1.30.245.731/xxxx  | <b>1.30.245.732/0000</b> |
| latching         | 2 x 90°         | 0                    |                | 1.30.245.401/xxxx  | 1.30.245.402/0000        |
| latching         | 2 x 90°         | 0+1+2                |                | 1.30.245.431/xxxx  | 1.30.245.432/0000        |

Technical data see page 2 - 102

xxxx = Front ring colour: black = 0100, slate grey = 0700, silver grey = 0800. Other versions on request.

Other versions on request.

Included: Ring nut with claw.

On selector switches with 3 switching positions (e.g. 2 x 90 degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation. A third contact block arranged in the centre would be actuated with either sense of rotation.

The following keylock switches with silver grey plastic front ring are stock items:

**1.30.245.001/0800, 1.30.245.201/0800, 1.30.245.221/0800, 1.30.245.301/0800, 1.30.245.321/0800, 1.30.245.731/0800**

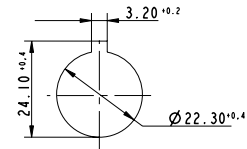
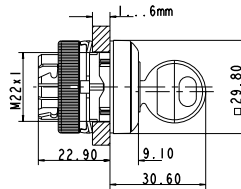
2

RAFIX 22 QR

**RAFIX 22 QR keylock switch, square collar**



Pict.: Front ring, metallized



Panel cut-out to IEC 60947-5-1

| Contact function | Rotating angle  | Key removal position | Rotating angle | Order no.          |                          |
|------------------|-----------------|----------------------|----------------|--------------------|--------------------------|
|                  |                 |                      |                | Plastic front ring | Metal front ring         |
| momentary        | 1 x 40°         | 0                    |                | 1.30.245.051/xxxx  | <b>1.30.245.052/0000</b> |
| momentary        | 2 x 40°         | 0                    |                | 1.30.245.151/xxxx  | 1.30.245.152/0000        |
| latching         | 1 x 90°, form L | 0                    |                | 1.30.245.251/xxxx  | <b>1.30.245.252/0000</b> |
| latching         | 1 x 90°, form L | 0+1                  |                | 1.30.245.271/xxxx  | <b>1.30.245.272/0000</b> |
| latching         | 1 x 90°, form V | 0                    |                | 1.30.245.351/xxxx  | <b>1.30.245.352/0000</b> |
| latching         | 1 x 90°, form V | 0+1                  |                | 1.30.245.371/xxxx  | <b>1.30.245.372/0000</b> |
| latching         | 2 x 60°         | 0+1+2                |                | 1.30.245.781/xxxx  | <b>1.30.245.782/0000</b> |
| latching         | 2 x 90°         | 0                    |                | 1.30.245.451/xxxx  | 1.30.245.452/0000        |
| latching         | 2 x 90°         | 0+1+2                |                | 1.30.245.481/xxxx  | 1.30.245.482/0000        |

Technical data see page 2 - 102

xxxx = Front ring colour: black = 0100, slate grey = 0700, silver grey = 0800. Other versions on request.

Included: Ring nut with claw.

On keylock switches with 3 switching positions (e.g. 2 x 90 degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation. A third contact block arranged in the centre would be actuated with either sense of rotation.

The following keylock switches with silver grey plastic front ring are stock items:

**1.30.245.051/0800, 1.30.245.251/0800, 1.30.245.271/0800, 1.30.245.351/0800, 1.30.245.371/0800, 1.30.245.781/0800**

2

RAFIX  
22 QR

**RAFIX 22 QR mushroom-headed pushbutton**



Pict.: Front ring, metallized

Front ring, slate grey

Panel cut-out to IEC 60947-5-1

2

**Technical data**

**General information**

|                      |                 |
|----------------------|-----------------|
| Actuator             | mushroom        |
| Colour of mushroom   | see order block |
| Colour of front ring | see order block |
| Form of collar       | see order block |

**Dimensions**

|                    |                 |
|--------------------|-----------------|
| Length of collar   | see order block |
| Width of collar    | see order block |
| Overall height     | 20.10 mm        |
| Mounting depth     | 56.4 mm         |
| Mounting hole      | 22.3 mm         |
| Key grid           | 50 x 30 mm      |
| Diameter of collar | see order block |

**Mechanical design**

|                  |                 |
|------------------|-----------------|
| Mounting         | ring nut        |
| Contact function | see order block |
| Illuminability   | see order block |

**Mechanical characteristics**

|                      |                                     |
|----------------------|-------------------------------------|
| Operating force max. | approx. 5 N for 1 switching element |
| Robustness min.      | 100 N                               |

**Electrical characteristics**

|                  |    |
|------------------|----|
| Protection class | II |
|------------------|----|

**Other specifications**

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| Operating life                       | 1,000,000                             |
| Degree of protection from front side | IP65                                  |
| Storage temperature min.             | -40 °C                                |
| Storage temperature max.             | 80 °C                                 |
| Resistance to constant environment   | according to IEC 600 68-2-3 and 2-30  |
| Resistance at variable environment   | according to IEC 600 68-2-14 and 2-33 |

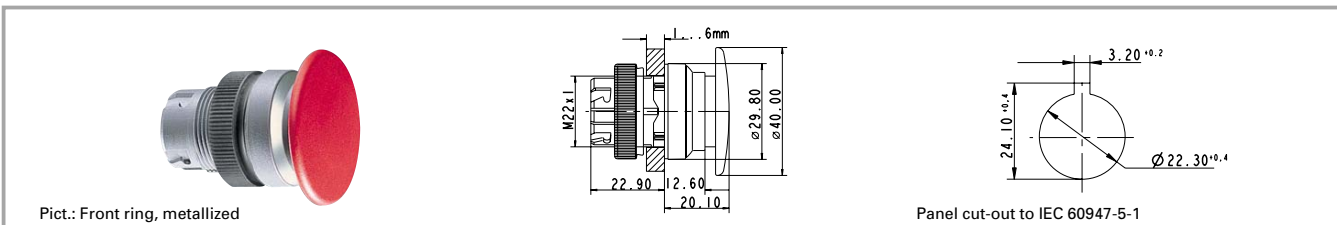
RAFIX 22 QR

**Accessories RAFIX 22 QR mushroom-headed pushbutton**

| Description  | Photo | Order no.                | Page    |
|--|-------|--------------------------|---------|
| RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NC + 1 NO |       | <b>1.20.124.017/0000</b> | 2 - 126 |
| RAFIX 22 QR contact block with gold contacts, with coupling, without lamp socket, cage clamp terminals, 1 NO     |       | 1.20.125.102/0000        | 2 - 130 |
| Contact block with coupling, gold contacts, RJ 12 connector, 1 NO, without LED                                   |       | 1.20.128.002/0000        | 2 - 133 |
| Fixing spanner for ring nut and front ring   |       | <b>5.05.800.062/0000</b> | 5 - 23  |

For other contact blocks, refer to the chapter „Contact blocks“; for additional accessories, refer to „RAFIX 22 QR special accessories“.

**RAFIX 22 QR mushroom-headed pushbutton 40 mm, round collar**

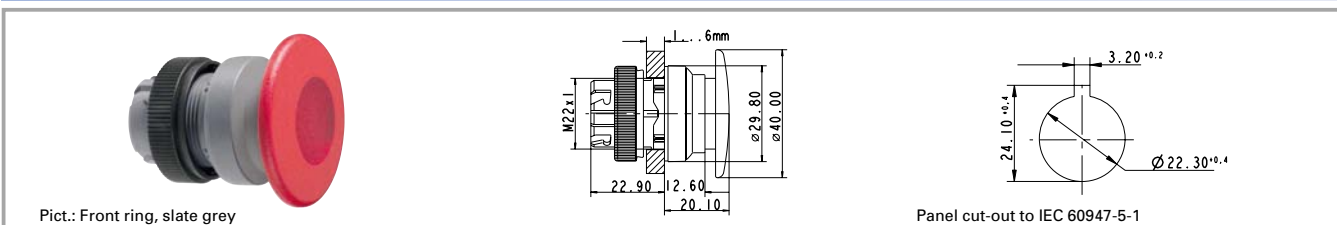


| Illuminability | Colour of mushroom | Order no. momentary |                       | Order no. latching |                       |
|----------------|--------------------|---------------------|-----------------------|--------------------|-----------------------|
|                |                    | Plastic front ring  | Metallized front ring | Plastic front ring | Metallized front ring |
| no             | opaque black       | 1.30.246.501/01xx   | 1.30.246.502/0100     | 1.30.246.511/01xx  | 1.30.246.512/0100     |
| no             | opaque red         | 1.30.246.501/03xx   | 1.30.246.502/0300     | 1.30.246.511/03xx  | 1.30.246.512/0300     |

Technical data see page 2 - 106

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08  
Order number **1.30.246.501/0308** (with silver grey plastic front ring) is a **stock item**.

**RAFIX 22 QR mushroom-headed pushbutton 40 mm, illuminated, round collar**



| Illuminability | Colour of mushroom             | Order no. momentary |                          | Order no. latching |                       |
|----------------|--------------------------------|---------------------|--------------------------|--------------------|-----------------------|
|                |                                | Plastic front ring  | Metallized front ring    | Plastic front ring | Metallized front ring |
| yes            | opaque red/<br>transparent red | 1.30.246.001/03xx   | <b>1.30.246.002/0300</b> | 1.30.246.011/03xx  | 1.30.246.012/0300     |

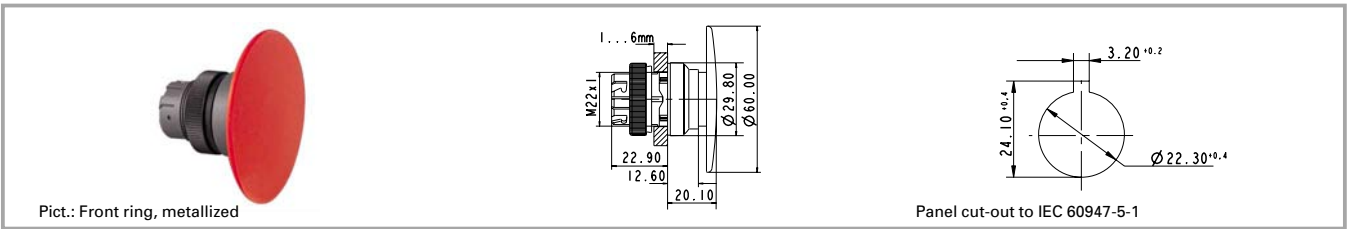
Technical data see page 2 - 106

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08  
Order number **1.30.246.001/0308** (with silver grey plastic front ring) is a **stock item**.

2

RAFIX  
22 QR

**RAFIX 22 QR mushroom-headed pushbutton 60 mm, round collar**



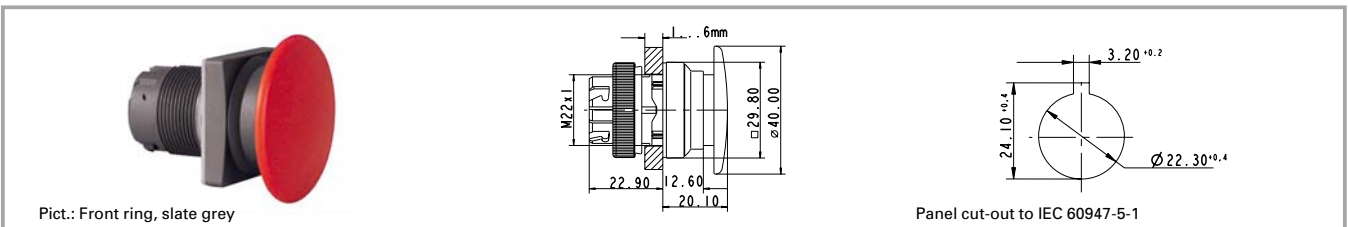
| Illuminability | Colour of mushroom | Order no. momentary |                       | Order no. latching |                       |
|----------------|--------------------|---------------------|-----------------------|--------------------|-----------------------|
|                |                    | Plastic front ring  | Metallized front ring | Plastic front ring | Metallized front ring |
| no             | opaque red         | 1.30.246.601/03xx   | 1.30.246.602/0300     | -                  | -                     |

Technical data see page 2 - 106

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

2

**RAFIX 22 QR mushroom-headed pushbutton 40 mm, square collar**



| Illuminability | Colour of mushroom | Order no. momentary |                       | Order no. latching |                       |
|----------------|--------------------|---------------------|-----------------------|--------------------|-----------------------|
|                |                    | Plastic front ring  | Metallized front ring | Plastic front ring | Metallized front ring |
| no             | opaque black       | 1.30.246.551/01xx   | 1.30.246.552/0100     | 1.30.246.561/01xx  | 1.30.246.562/0100     |
| no             | opaque red         | 1.30.246.551/03xx   | 1.30.246.552/0300     | 1.30.246.561/03xx  | 1.30.246.562/0300     |

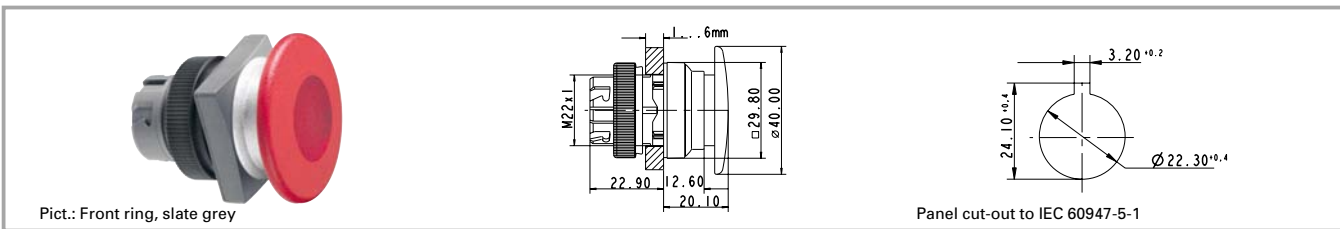
Technical data see page 2 - 106

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

Order number **1.30.246.551/0308** (with silver grey plastic front ring) is a **stock item**.

RAFIX  
22 QR

**RAFIX 22 QR mushroom-headed pushbutton 40 mm, illuminated, square collar**



| Illuminability | Colour of mushroom             | Order no. momentary |                          | Order no. latching |                       |
|----------------|--------------------------------|---------------------|--------------------------|--------------------|-----------------------|
|                |                                | Plastic front ring  | Metallized front ring    | Plastic front ring | Metallized front ring |
| yes            | opaque red/<br>transparent red | 1.30.246.051/03xx   | <b>1.30.246.052/0300</b> | 1.30.246.061/03xx  | 1.30.246.062/0300     |

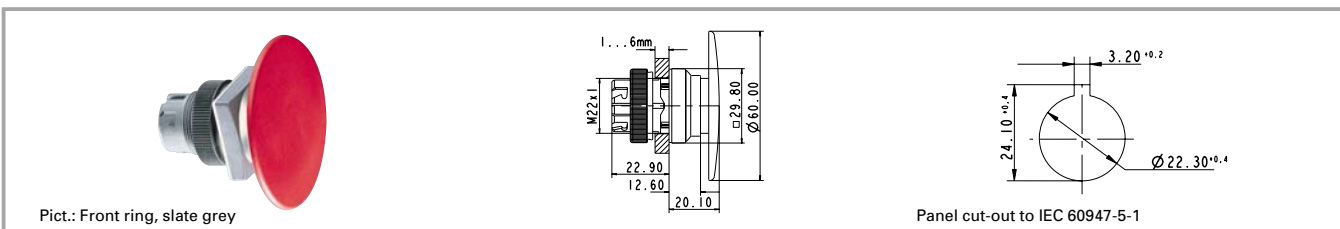
Technical data see page 2 - 106

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

Order number **1.30.246.051/0308** (with silver grey plastic front ring) is a **stock item**.

2

**RAFIX 22 QR mushroom-headed pushbutton 60 mm, square collar**



| Illuminability | Colour of mushroom | Order no. momentary |                       | Order no. latching |                       |
|----------------|--------------------|---------------------|-----------------------|--------------------|-----------------------|
|                |                    | Plastic front ring  | Metallized front ring | Plastic front ring | Metallized front ring |
| no             | opaque red         | 1.30.246.651/03xx   | 1.30.246.652/0300     | -                  | -                     |

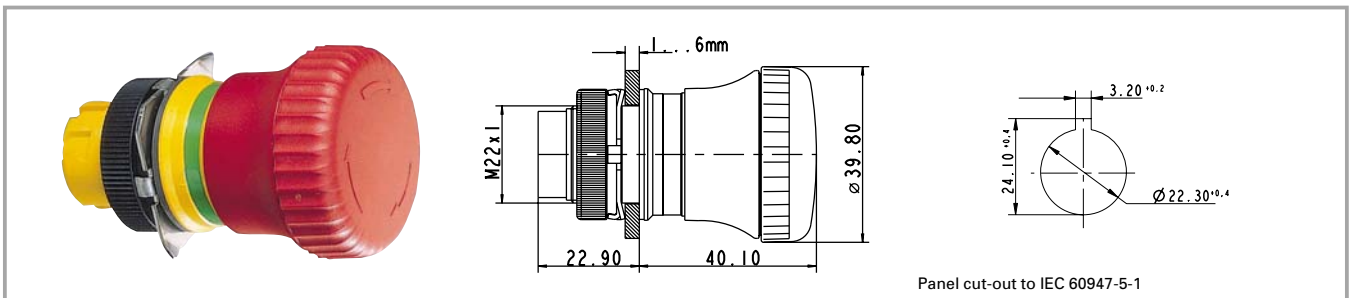
Technical data see page 2 - 106

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

RAFIX  
22 QR



**RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418**



2

**General data**

The emergency stop pushbuttons comply with IEC 60 204, IEC 60 073, IEC 60 947 and VDE 0113 Part 1. They are designed dupe-proof according to EN 418 with a positive mechanical movement sequence. A certain operating force must be exerted at the action point in order to prevent inadvertent operation. The pushbutton latches when pressed. The special shape of the actuator prevents the emergency stop pushbutton from being blocked. This means that the emergency stop process - once initiated - cannot be impeded by any jamming objects.

**Technical data**

RAFIX 22 QR

|   |                 |                                      |                                       |
|---|-----------------|--------------------------------------|---------------------------------------|
| <b>General information</b>                      |                 | <b>Mechanical characteristics</b>    |                                       |
| Actuator  | mushroom        | Operating force max.                 | approx. 5 N for 1 switching element   |
| Colour of mushroom                              | see order block | Robustness min.                      | 100 N                                 |
| Form of collar                                  | round           | Robustness                           | acc. IEC 60947-5-5                    |
| <b>Dimensions</b>                               |                 | <b>Other specifications</b>          |                                       |
| Overall height                                  | see order block | Operating life                       | see order block                       |
| Mounting depth with contact block without cable | see order block | Degree of protection from front side | see order block                       |
| Mounting hole                                   | see order block | Ambient temp. operating min.         | -25 °C                                |
| Key grid  | 50 x 30 mm      | Ambient temp. operating max.         | +70 °C                                |
| Diameter of collar                              | see order block | Storage temperature min.             | -40 °C                                |
| <b>Mechanical design</b>                        |                 | Storage temperature max.             | +80 °C                                |
| Mounting  | ring nut        | Resistance to constant environment   | according to IEC 600 68-2-3 and 2-30  |
| Contact function                                | latching        | Resistance at variable environment   | according to IEC 600 68-2-14 and 2-33 |
| Illuminability                                  | see order block |                                      |                                       |
| Reset   | see order block |                                      |                                       |

**Accessories RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418**

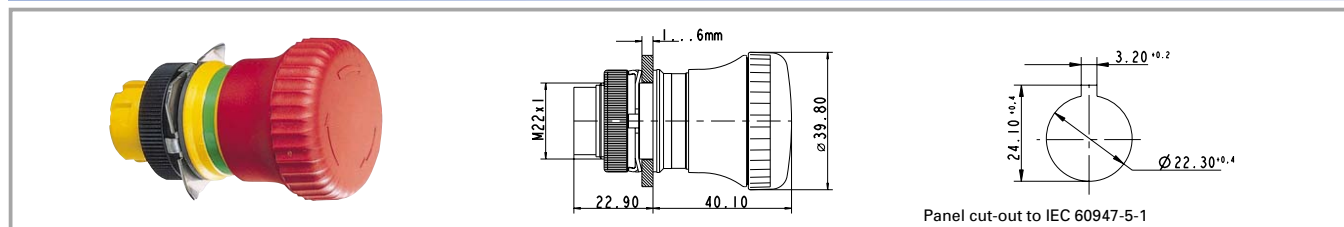
| Description   | Photo | Order no.                | Page    |
|---|-------|--------------------------|---------|
| RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NC |       | <b>1.20.124.001/0000</b> | 2 - 126 |
| RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 2 NC |       | <b>1.20.124.019/0000</b> | 2 - 126 |
| Fixing spanner for ring nut and front ring  |       | <b>5.05.800.062/0000</b> | 5 - 23  |

**Accessories RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418**

| Description  | Photo | Order no.                | Page    |
|--|-------|--------------------------|---------|
| Emergency stop label, yellow, round 60 mm, PVC adhesive, without legend                            |       | 5.76.204.100/0400        | 2 - 146 |
| Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend „NOT-AUS“                     |       | <b>5.76.204.101/0400</b> | 2 - 146 |
| Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend „ARRET D'URGENCE“             |       | 5.76.204.102/0400        | 2 - 146 |
| Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend „EMERGENCY-STOP“              |       | <b>5.76.204.103/0400</b> | 2 - 146 |
| Emergency stop label, yellow 36 x 64 mm, PVC adhesive, without legend                              |       | 5.76.205.011/0400        | 2 - 146 |
| Emergency stop label, yellow, round 60 mm, rigid PVC, with legend „EMERGENCY-STOP/ARRET D'URGENCE“ |       | 5.76.207.002/0400        | 2 - 146 |

For other contact blocks, refer to the chapter „Contact blocks“; for additional accessories, refer to „RAFIX 22 QR special accessories“.

**RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418**



| Degree of protection from front side | Reset                 | Colour of mushroom | Illuminability | Operating life | Order no.                |
|--------------------------------------|-----------------------|--------------------|----------------|----------------|--------------------------|
| IP65                                 | by clockwise rotation | opaque red         | no             | 100000         | <b>1.30.243.501/0300</b> |

Technical data see page 2 - 110

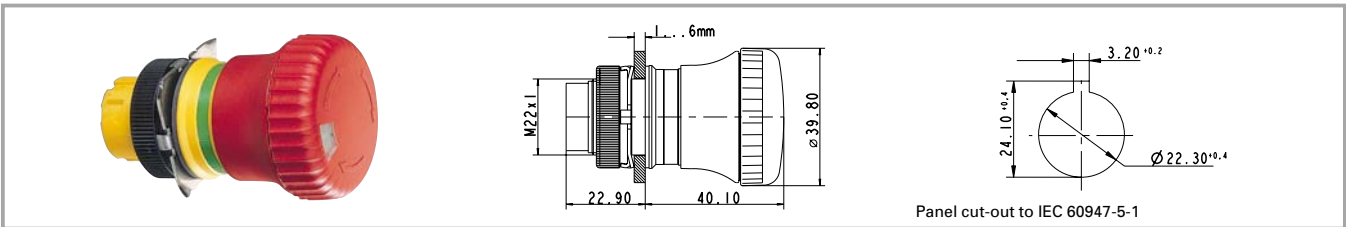
Included: Ring nut with claw.

Switching position indication: In the non-operated condition, a green ring is visible on the side.

2

RAFIX 22 QR

**RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418, with indication to EN 60947-1**



| Degree of protection from front side | Reset                 | Colour of mushroom | Illuminability | Operating life | Order no.                |
|--------------------------------------|-----------------------|--------------------|----------------|----------------|--------------------------|
| IP65                                 | by clockwise rotation | opaque red         | no             | 100000         | <b>1.30.243.601/0300</b> |

Technical data see page 2 - 110

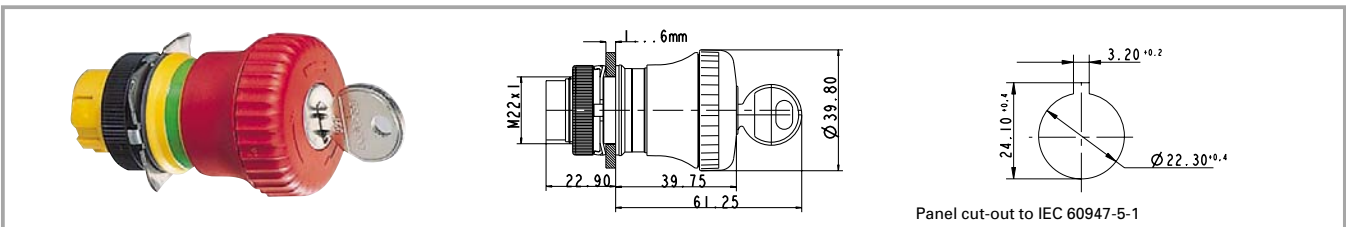
Included: Ring nut with claw.

Switching position indication: In the non-operated condition, a green ring is visible on the side.

This switching position is visible in addition from the front; a mechanical indicator integrated into the mushroom head changes from green to red when actuated.

2

**RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418, with keylock**



| Degree of protection from front side | Reset                 | Colour of mushroom | Illuminability | Operating life | Order no.                |
|--------------------------------------|-----------------------|--------------------|----------------|----------------|--------------------------|
| IP40                                 | by clockwise rotation | opaque red         | no             | 50000          | <b>1.30.243.701/0300</b> |

Technical data see page 2 - 110

**Accessories:**

Spare key for RAFIX 22 QR: 5.58.017.001/0000

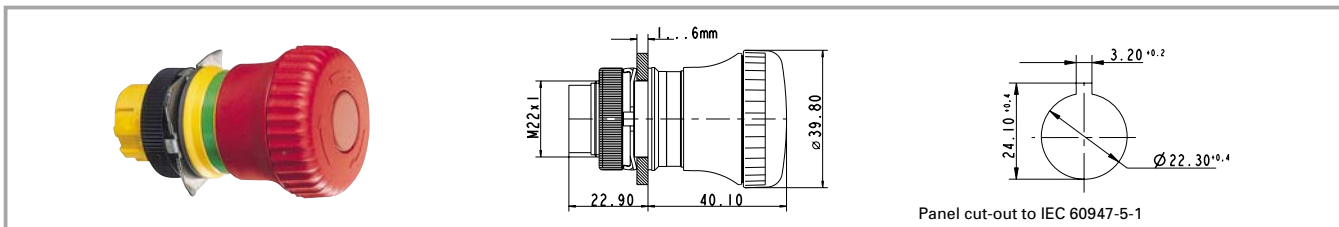
Included: Ring nut with claw, 2 keys.

Switching position indication: In the non-operated condition, a green ring is visible on the side.

Once actuated, the emergency stop pushbutton can only be reset with the key.

RAFIX  
22 QR

**RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418, illuminated**



| Degree of protection from front side | Reset                 | Colour of mushroom             | Illuminability | Operating life | Order no.                |
|--------------------------------------|-----------------------|--------------------------------|----------------|----------------|--------------------------|
| IP65                                 | by clockwise rotation | opaque red/<br>translucent red | yes            | 100000         | <b>1.30.243.001/0300</b> |

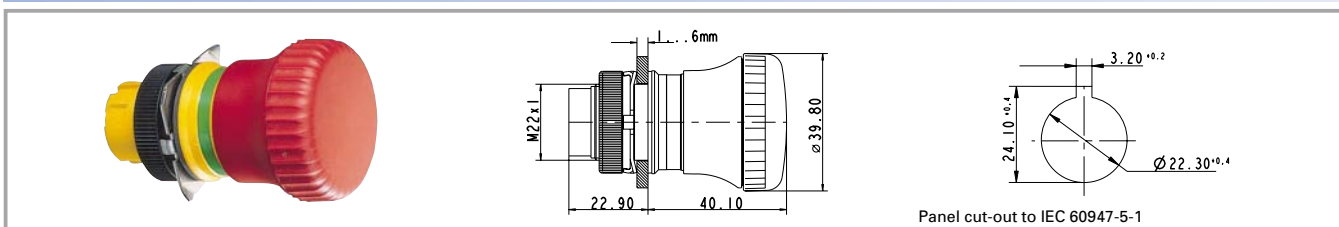
Technical data see page 2 - 110

Included: Ring nut with claw.

Switching position indication: In the non-operated condition, a green ring is visible on the side.

2

**NEW** **RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418**



| Degree of protection from front side | Reset      | Colour of mushroom | Illuminability | Operating life | Order no.                |
|--------------------------------------|------------|--------------------|----------------|----------------|--------------------------|
| IP65                                 | by pulling | opaque red         | no             | 100000         | <b>1.30.243.901/0300</b> |

Technical data see page 2 - 110

Included: Ring nut with claw.

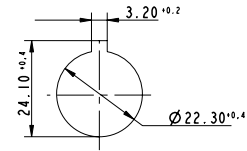
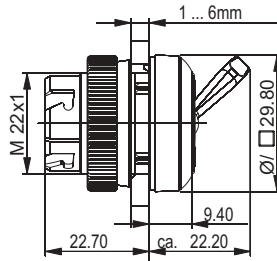
Switching position indication: In the non-operated condition, a green ring is visible on the side.

RAFIX  
22 QR

**RAFIX 22 QR toggle switch**



Pict.: Front ring, metallized



Panel cut-out to IEC 60947-5-1

2

**Technical data**

**General information**

|                  |                 |
|------------------|-----------------|
| Form of lens     | toggle          |
| Colour of toggle | opaque white    |
| Front ring       | see order block |
| Form of collar   | see order block |

**Dimensions**

|                  |                 |
|------------------|-----------------|
| Length of collar | see order block |
| Width of collar  | see order block |
| Overall height   | 22 mm           |
| Mounting depth   | 56.4 mm         |
| Mounting hole    | 22.3 mm         |

**Mechanical design**

|          |          |
|----------|----------|
| Mounting | ring nut |
|----------|----------|

**Dimensions**

|                    |                 |
|--------------------|-----------------|
| Key grid           | 50 x 30 mm      |
| Diameter of collar | see order block |

**Mechanical design**

|                  |          |
|------------------|----------|
| Contact function | latching |
| Immunity         | no       |

**Mechanical characteristics**

|                 |       |
|-----------------|-------|
| Robustness min. | 100 N |
|-----------------|-------|

**Electrical characteristics**

|                  |    |
|------------------|----|
| Protection class | II |
|------------------|----|

**Other specifications**

|                                    |                                      |
|------------------------------------|--------------------------------------|
| Operating life                     | 100000                               |
| Degree of protection               | IP54                                 |
| Storage temperature min.           | -40 °C                               |
| Storage temperature max.           | 80 °C                                |
| Resistance to constant environment | according to IEC 60068-2-3 and 2-30  |
| Resistance at variable environment | according to IEC 60068-2-14 and 2-33 |

RAFIX  
22 QR

**Accessories RAFIX 22 QR toggle switch**

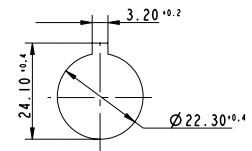
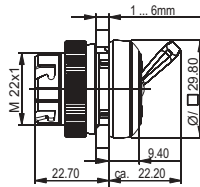
| Description  | Photo | Order no.         | Page    |
|--|-------|-------------------|---------|
| RAFIX 22 QR contact block with gold contacts, with coupling, without lamp socket, screw terminals, 1 NC + 1 NO |       | 1.20.124.117/0000 | 2 - 130 |
| RAFIX 22 QR contact block with gold contacts, with coupling, without lamp socket, cage clamp terminals, 1 NO   |       | 1.20.125.102/0000 | 2 - 130 |
| Contact block with coupling, gold contacts, RJ 12 connector, 1 NO, without LED                                 |       | 1.20.128.002/0000 | 2 - 133 |
| Fixing spanner for ring nut and front ring   |       | 5.05.800.062/0000 | 5 - 23  |

**NEW**

**RAFIX 22 QR, toggle switch, round collar**



Pict.: Front ring, slate grey



Panel cut-out to IEC 60947-5-1

| Illuminability | Colour of toggle | Order no. momentary |                       | Order no. latching |                       |
|----------------|------------------|---------------------|-----------------------|--------------------|-----------------------|
|                |                  | Plastic front ring  | Metallized front ring | Plastic front ring | Metallized front ring |
| no             | opaque white     | -                   | -                     | 1.30.247.501/02xx  | 1.30.247.502/0200     |

Technical data see page 2 - 114

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

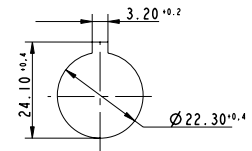
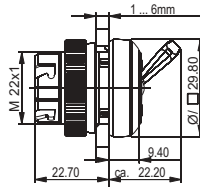
2

**NEW**

**RAFIX 22 QR, toggle switch, square collar**



Pict.: Front ring, metallized



Panel cut-out to IEC 60947-5-1

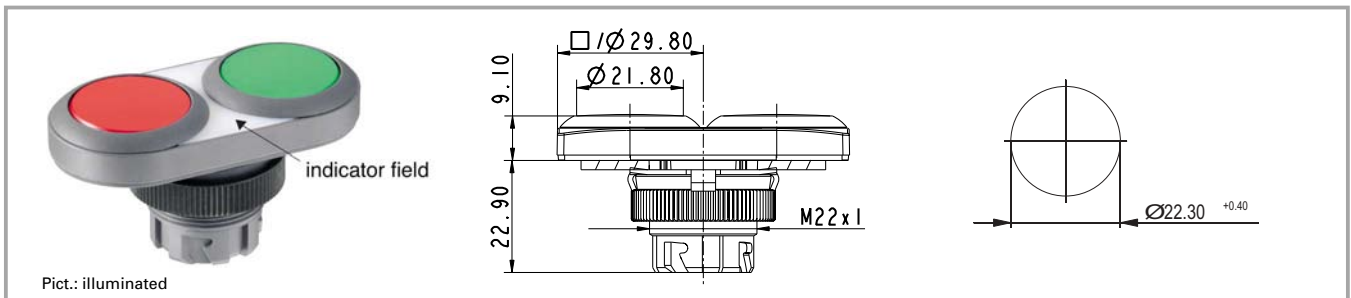
| Illuminability | Colour of toggle | Order no. momentary |                       | Order no. latching |                       |
|----------------|------------------|---------------------|-----------------------|--------------------|-----------------------|
|                |                  | Plastic front ring  | Metallized front ring | Plastic front ring | Metallized front ring |
| no             | opaque white     | -                   | -                     | 1.30.247.551/02xx  | 1.30.247.552/0200     |

Technical data see page 2 - 114

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

RAFIX  
22 QR

**RAFIX 22 QR twin pushbutton**



2

**General data**

Lens legends are oriented for vertical installation of the twin pushbutton. Only the signal indicator is illuminated on twin pushbuttons prepared for illumination. This area is opaque slate grey on versions which cannot be illuminated.

**Technical data**

**General information**

|                      |                         |
|----------------------|-------------------------|
| Legending            | see order block         |
| Colour of lens       | opaque green/opaque red |
| Colour of front ring | see order block         |
| Form of collar       | see order block         |

**Dimensions**

|   |            |
|---|------------|
| Length of collar                                | 59.6 mm    |
| Width of collar                                 | 29.8 mm    |
| Overall height                                  | 9.1 mm     |
| Mounting depth with contact block without cable | 56.4 mm    |
| Mounting hole                                   | 22.3 mm    |
| Key grid  | 50 x 30 mm |

**Mechanical design**

|                  |                 |
|------------------|-----------------|
| Mounting         | ring nut        |
| Contact function | momentary       |
| Illuminability   | see order block |

**Mechanical characteristics**

|                      |                                     |
|----------------------|-------------------------------------|
| Operating force max. | approx. 5 N for 1 switching element |
| Robustness min.      | 100 N                               |

**Other specifications**

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| Degree of protection from front side | IP65                                  |
| Ambient temp. operating min.         | -25 °C                                |
| Ambient temp. operating max.         | +70 °C                                |
| Storage temperature max.             | +80 °C                                |
| Resistance to constant environment   | according to IEC 600 68-2-3 and 2-30  |
| Resistance at variable environment   | according to IEC 600 68-2-14 and 2-33 |

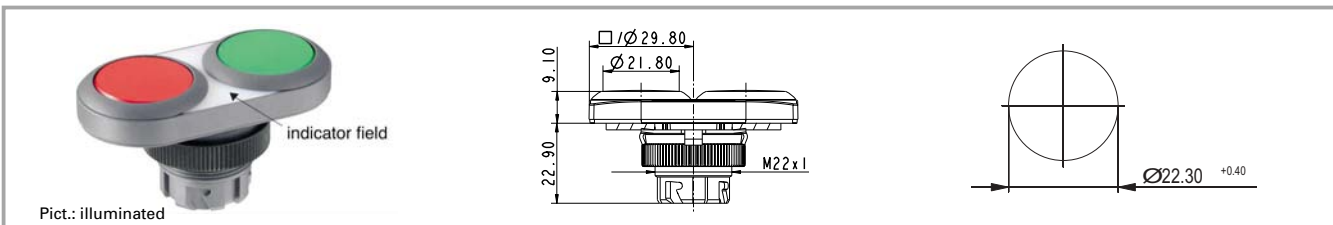
RAFIX 22 QR

**Accessories RAFIX 22 QR twin pushbutton**

| Description   | Photo | Order no.         | Page    |
|---|-------|-------------------|---------|
| RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, screw terminals, 1 NO, 1 NC    |       | 1.20.124.025/0000 | 2 - 127 |
| RAFIX 22 QR contact block with gold contacts, with coupling and lamp socket, cage clamp terminals, 1 NO, 1 NC |       | 1.20.125.125/0000 | 2 - 131 |
| Fixing spanner for ring nut and front ring  |       | 5.05.800.062/0000 | 5 - 23  |

For other contact blocks, refer to the chapter "Contact blocks"; for additional accessories, refer to "RAFIX 22 QR special accessories".

**RAFIX 22 QR twin pushbutton, oval collar**



| Illuminability | Colour of lens          | Legending      | Order no.          |                   |
|----------------|-------------------------|----------------|--------------------|-------------------|
|                |                         |                | Plastic front ring | Metal front ring  |
| yes            | opaque green/opaque red | none           | 1.30.241.001/22xx  | 1.30.241.021/2200 |
| yes            | opaque green/opaque red | red 0, green I | 1.30.241.002/22xx  | 1.30.241.022/2200 |
| no             | opaque green/opaque red | none           | 1.30.241.101/07xx  | 1.30.241.121/0700 |
| no             | opaque green/opaque red | red 0, green I | 1.30.241.102/07xx  | 1.30.241.122/0700 |

Technical data see page 2 - 116

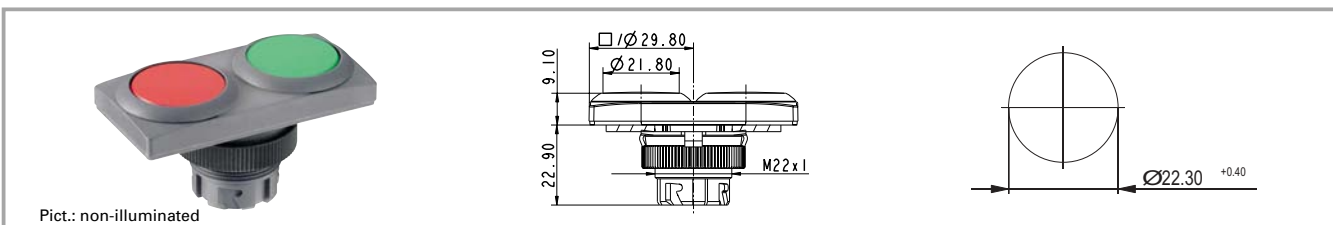
xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

Either the left-hand or right-hand contact block is actuated, depending on the button pressed. For illuminated versions the centre position of the coupling is reserved for the lamp socket. A third contact block arranged in the centre would be actuated by either button.

2

RAFIX  
22 QR

**RAFIX 22 QR twin pushbutton, rectangular collar**



| Illuminability | Colour of lens          | Legending      | Order no.          |                   |
|----------------|-------------------------|----------------|--------------------|-------------------|
|                |                         |                | Plastic front ring | Metal front ring  |
| yes            | opaque green/opaque red | none           | 1.30.241.051/22xx  | 1.30.241.071/2200 |
| yes            | opaque green/opaque red | red 0, green I | 1.30.241.052/22xx  | 1.30.241.072/2200 |
| no             | opaque green/opaque red | none           | 1.30.241.151/07xx  | 1.30.241.171/0700 |
| no             | opaque green/opaque red | red 0, green I | 1.30.241.152/07xx  | 1.30.241.172/0700 |

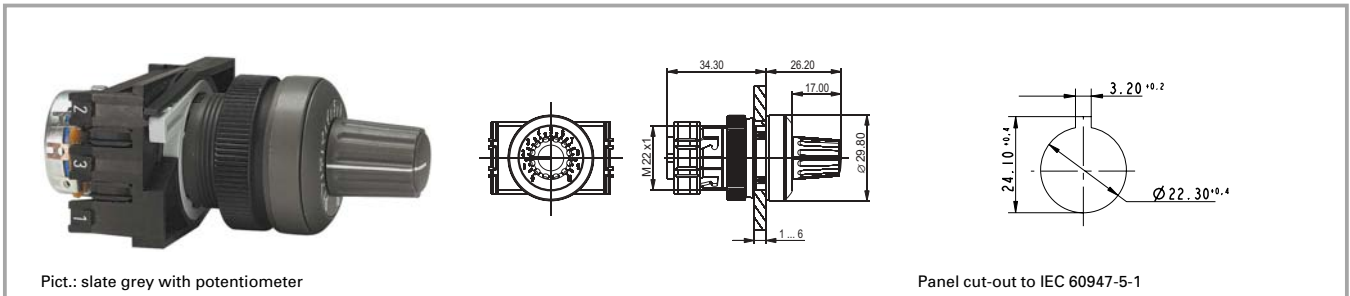
Technical data see page 2 - 116

xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

Either the left-hand or right-hand contact block is actuated, depending on the button pressed. For illuminated versions the centre position of the coupling is reserved for the lamp socket. A third contact block arranged in the centre would be actuated by either button.



**RAFIX 22 QR potentiometer drive**



Pict.: slate grey with potentiometer

Panel cut-out to IEC 60947-5-1

2

**Technical data**

**General information**

Actuator knob size  
 Colour of handle see order block  
 Front ring see order block  
 Form of collar see order block

**Dimensions**

Length of collar see order block  
 Width of collar see order block  
 Overall height 26 mm  
 Mounting depth according to potentiometer  
 Mounting hole 22.3 mm  
 Key grid 50 x 30 mm  
 Diameter of collar see order block

**Mechanical design**

Mounting ring nut

**Mechanical characteristics**

Robustness min. 100 N

**Other specifications**

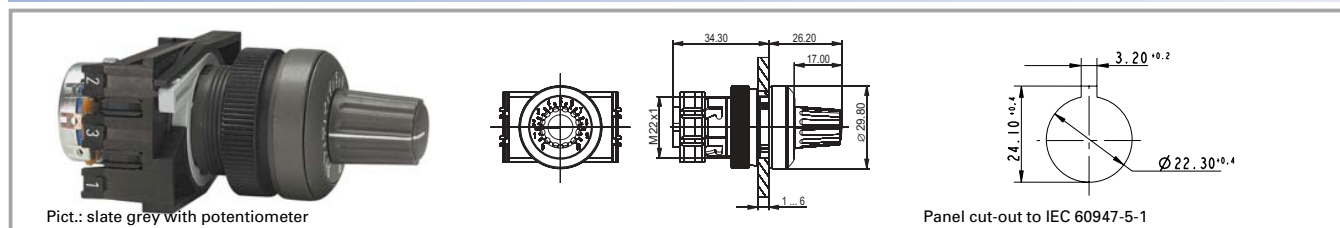
Degree of protection from front side IP65  
 Storage temperature min. -40 °C  
 Storage temperature max. +80 °C  
 Resistance to constant environment according to IEC 600 68-2-3 and 2-30  
 Resistance at variable environment according to IEC 600 68-2-14 and 2-33

RAFIX  
22 QR

**Accessories RAFIX 22 QR potentiometer drive**

| Description                                | Photo | Order no.                | Page   |
|--|-------|--------------------------|--------|
| Fixing spanner for ring nut and front ring |       | <b>5.05.800.062/0000</b> | 5 - 23 |

**RAFIX 22 QR potentiometer drive, round collar**



| Front ring         | Colour of handle  | Order no.         |
|--------------------|-------------------|-------------------|
| metal              | opaque slate-grey | 1.30.248.051/0000 |
| plastic slate-grey | opaque slate-grey | 1.30.248.001/0700 |
| plastic silber     | opaque slate-grey | 1.30.248.001/0800 |
| metal              | opaque black      | 1.30.248.061/0000 |
| plastic slate-grey | opaque black      | 1.30.248.011/0700 |
| plastic silber     | opaque black      | 1.30.248.011/0800 |

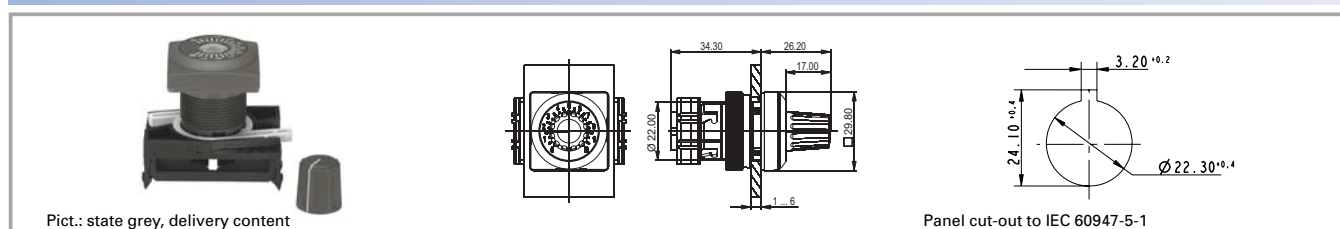
Technical data see page 2 - 118

For potentiometers with 6 mm shaft diameter and 50 mm shaft length. Potentiometer not included.

2

RAFIX  
22 QR

**RAFIX 22 QR potentiometer drive, square collar**

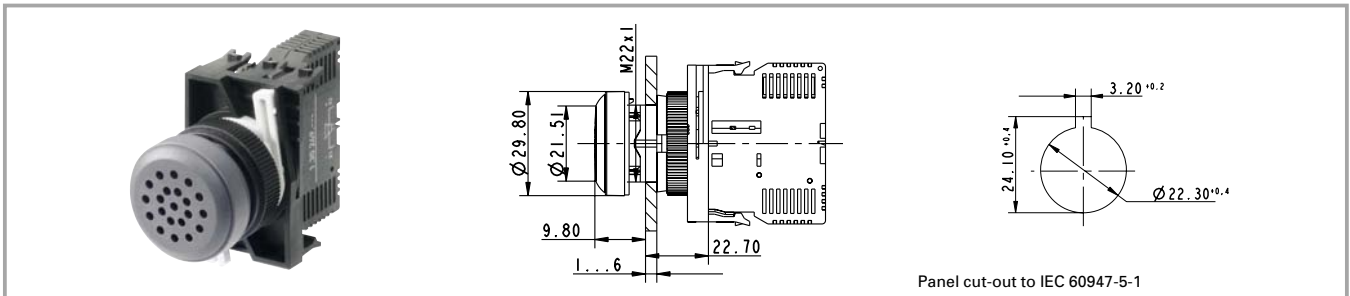


| Front ring         | Colour of handle  | Order no.         |
|--------------------|-------------------|-------------------|
| metal              | opaque slate-grey | 1.30.248.071/0000 |
| plastic slate-grey | opaque slate-grey | 1.30.248.021/0700 |
| plastic silber     | opaque slate-grey | 1.30.248.021/0800 |
| metal              | opaque black      | 1.30.248.081/0000 |
| plastic slate-grey | opaque black      | 1.30.248.031/0700 |
| plastic silber     | opaque black      | 1.30.248.031/0800 |

Technical data see page 2 - 118

For potentiometers with 6 mm shaft diameter and 50 mm shaft length. Potentiometer not included.

**RAFIX 22 QR buzzer**



2

**Technical data**

**General information**

Form of lens flat lens  
 Colour of lens opaque slate-grey  
 Form of collar see order block  
 Sound see order block

**Dimensions**

Length of collar see order block  
 Width of collar see order block  
 Overall height 9.8 mm  
 Mounting depth 56.4 mm  
 Mounting hole 22.3 mm  
 Key grid 50 x 30 mm  
 Diameter of collar see order block

**Mechanical design**

Mounting ring nut

**Acoustic characteristics**

Sonic pressure, 1 m distance min. see order block

**Electrical characteristics**

Operating voltage DC see order block  
 Input current see order block  
 Sound frequency see order block

**Mechanical characteristics**

Robustness min. 100 N

**Other specifications**

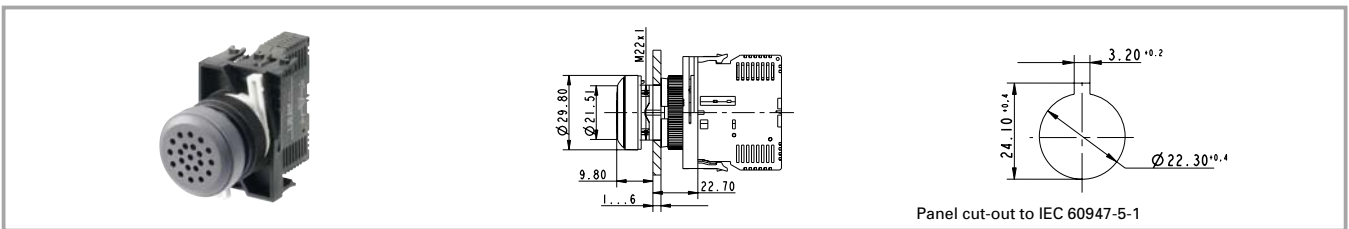
Degree of protection from front side IP65  
 Storage temperature min. -40 °C  
 Storage temperature max. +80 °C  
 Resistance to constant environment according to IEC 600 68-2-3 and 2-30  
 Resistance at variable environment according to IEC 600 68-2-14 and 2-33

RAFIX  
22 QR

**Accessories RAFIX 22 QR buzzer**

| Description                                | Photo | Order no.         | Page   |
|--|-------|-------------------|--------|
| Fixing spanner for ring nut and front ring |       | 5.05.800.062/0000 | 5 - 23 |

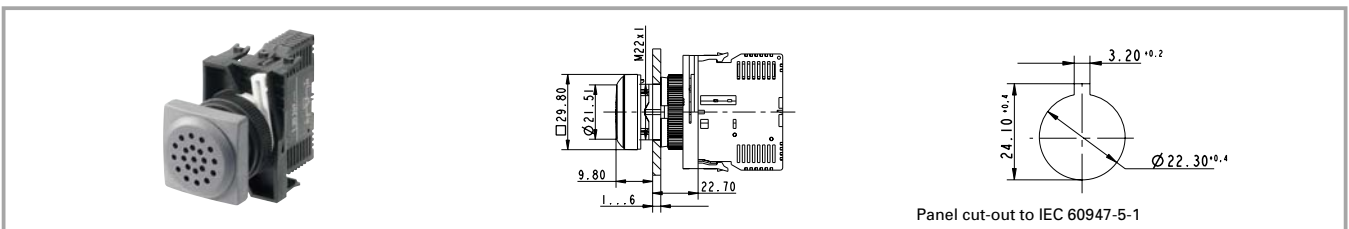
**RAFIX 22 QR buzzer, round collar**



| Operating voltage DC | Input current | Sound           | Sonic pressure, 1 m distance min. | Sound frequency | Order no.         |
|----------------------|---------------|-----------------|-----------------------------------|-----------------|-------------------|
| 12 V                 | 25 mA         | continuous beep | 70 dB                             |                 | 1.30.249.002/0000 |
| 24 V                 | 25 mA         | continuous beep | 70 dB                             |                 | 1.30.249.001/0000 |

Technical data see page 2 - 120

**RAFIX 22 QR buzzer, square collar**



| Operating voltage DC | Input current | Sound           | Sonic pressure, 1 m distance min. | Sound frequency | Order no.         |
|----------------------|---------------|-----------------|-----------------------------------|-----------------|-------------------|
| 12 V                 | 25 mA         | continuous beep | 70 dB                             |                 | 1.30.249.022/0000 |
| 24 V                 | 25 mA         | continuous beep | 70 dB                             |                 | 1.30.249.021/0000 |

Technical data see page 2 - 120

2

RAFIX 22 QR

**RAFIX 22 QR signal indicator**



2

**Technical data**

**General information**

Form of lens flat lens  
 Colour of lens see order block  
 Form of collar see order block

**Dimensions**

Length of collar see order block  
 Width of collar see order block  
 Overall height 9.4 mm  
 Mounting depth 56.4 mm  
 Mounting hole 22.3 mm  
 Key grid 50 x 30 mm  
 Diameter of collar see order block

**Mechanical design**

Mounting ring nut  
 Illuminability yes

**Electrical characteristics**

Protection class II

**Other specifications**

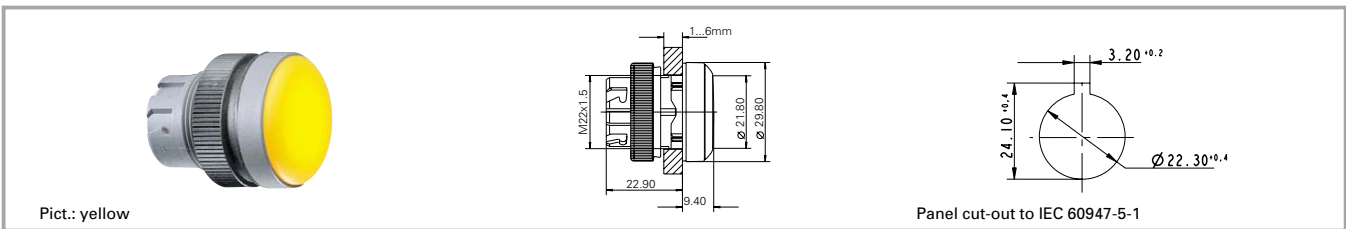
Degree of protection from front side IP65  
 Ambient temp. operating min. -25 °C  
 Ambient temp. operating max. +70 °C  
 Storage temperature min. -40 °C  
 Storage temperature max. +80 °C  
 Resistance to constant environment according to IEC 600 68-2-3 and 2-30  
 Resistance at variable environment according to IEC 600 68-2-14 and 2-33

RAFIX  
22 QR

**Accessories RAFIX 22 QR signal indicator**

| Description   | Photo | Order no.                | Page    |
|---|-------|--------------------------|---------|
| RAFIX 22 QR lamp socket assembly, screw terminals, with coupling                                  |       | <b>1.71.213.001/0000</b> | 2 - 136 |
| RAFIX 22 QR lamp socket assembly, screw terminals, with coupling, diode and series resistor 130 V |       | <b>1.71.213.004/0000</b> | 2 - 136 |
| RAFIX 22 QR lamp socket assembly, cage clamp terminals, with coupling                             |       | <b>1.71.214.001/0000</b> | 2 - 136 |
| Fixing spanner for ring nut and front ring  |       | <b>5.05.800.062/0000</b> | 5 - 23  |
| Legend insert without legend  |       | 5.70.803.000/2000        |         |

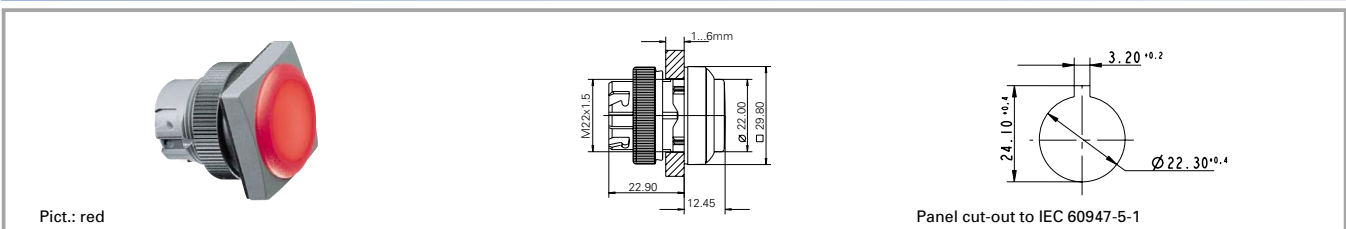
**RAFIX 22 QR signal indicator, round collar**



| Colour of lens         | Form of collar | Order no.                |
|------------------------|----------------|--------------------------|
| transparent colourless | round          | <b>1.74.505.501/1000</b> |
| transparent red        | round          | <b>1.74.505.501/1300</b> |
| transparent yellow     | round          | <b>1.74.505.501/1400</b> |
| transparent green      | round          | <b>1.74.505.501/1500</b> |
| transparent blue       | round          | <b>1.74.505.501/1600</b> |

Technical data see page 2 - 122

**RAFIX 22 QR signal indicator, square collar**



| Colour of lens         | Form of collar | Order no.                |
|------------------------|----------------|--------------------------|
| transparent colourless | square         | <b>1.74.505.551/1000</b> |
| transparent red        | square         | <b>1.74.505.551/1300</b> |
| transparent yellow     | square         | <b>1.74.505.551/1400</b> |
| transparent green      | square         | <b>1.74.505.551/1500</b> |
| transparent blue       | square         | <b>1.74.505.551/1600</b> |

Technical data see page 2 - 122

2

RAFIX 22 QR

**RAFIX 22 QR contact blocks with silver contacts**



Pict.: Silver contacts, 1 NC, cage clamp terminals

Silver contacts, 2 NC, screw terminals

Silver contacts, 1NC+1NO, lamp socket, 1NC+1NO

2




**General data**

Most of the values specified apply to all terminal versions. Any deviating values specific to the cage clamp or quick-connect version are given in parentheses ( ).

**Technical data**

|   |  |   |  |
|---|--|---|--|
| <b>Dimensions</b>                                   |  | Positive opening travel                             | 3 mm                                     |
| Length  | 39.5 mm  | Operating speed                                     | 5 ... 1000 mm/s                          |
| Width   | 10 mm  | <b>Electrical characteristics acc. to IEC 61058</b> |  |
| Height  | 46 mm  | Resistive load AC                                   | 10 A/250 V; 7,5 A/400 V                  |
| Mounting depth without cable                        | 56.4 mm  | Motor load AC                                       | 6 A/250 V; 4 A/400 V (5 A/250 V)         |
| <b>Mechanical design</b>                            |  | Peak input current filament lamp AC                 | 36 A                                     |
| Mounting  | snap on coupling and actuator                      | Peak capacity input current AC                      | 100 A                                    |
| Contact system                                      | bridgecontact self cleaning                        | Protection class                                    | II                                       |
| Contact materials                                   | Ag   | <b>Lamp characteristics</b>                         |  |
| Contact arrangement                                 | see order block                                    | Lamp characteristics                                | BA 9 s                                   |
| NC contact forcibly actuated acc. to IEC 60947-5-1  | yes  | <b>Other specifications</b>                         |  |
| Terminals   | see order block                                    | Operating life at 10 A/250 V AC                     | 500000 (70000)                           |
| Terminal marking                                    | colour encoded                                     | Switching reliability at 24V/5mA DC                 | 10 x 10 <sup>-6</sup>                    |
| Robustness  | 100 N  | Approvals   | ENEC, cURus (UL + CSA)                   |
| Operating force                                     | approx. 5 N for 1 contact element                  | Robustness  | acc. IEC 60947-5-5                       |
| Wire range solid wires without wire end sleeves     | 2 x 0.75 ... 2.5 mm <sup>2</sup>                   | Corresponding to CE                                 | acc. EU-guideline N 72/73                |
| Wire range stranded wires without end sleeves       | 2 x 1.0 ... 1.5 (2 x 0.08 ... 2.5) mm <sup>2</sup> | Shock resistance acc. to IEC 600 68-2-27            | 50 g at 11 ms, amplitude half sinusoidal |
| Stripping length, solid or stranded                 | 8 mm   | Resistance to vibrations acc. to IEC 600 68-2-6     | 10 g at 40 ... 500 Hz                    |
| Wire range with wire end sleeves                    | 2 x 0.75 ... 1.5 mm <sup>2</sup>                   | Ambient temp. operating min.                        | -25 °C                                   |
| <b>Electrical characteristics acc. to IEC 60947</b> |  | Ambient temp. operating max.                        | +70°C (+50°C)                            |
| Rated insulation voltage AC/DC                      | 400 V  | Storage temperature min.                            | -40 °C                                   |
| Rated peak voltage                                  | 6000 V   | Storage temperature max.                            | +80 °C                                   |
| Rated operating current I <sub>e</sub> AC 12        | 10 A   | Flame class acc. to UL 94                           | V 0                                      |
| Rated operating current I <sub>e</sub> AC-15        | 125 V/10 A, 250 V/6 A, 400 V/3.5 A                 | Hot wire ignition acc. to IEC 60695-2-1             | yes                                      |
| Rated operating current I <sub>e</sub> DC-13 Q300   | 24V/2.75A, 60V/1.1A, 125V/0.55A, 250V/0.275A       | Resistance to constant environment                  | IEC 600 68-2-3 and 2-30                  |
| Degree of pollution                                 | 3  | Resistance at variable environment                  | IEC 600 68-2-14 and 2-33                 |

**Accessories RAFIX 22 QR contact blocks with silver contacts, screw terminals and cage clamp terminals**

| Description  | Photo  | Order no.                | Page    |
|--|--|--------------------------|---------|
| Coupling with reference numbers 1-3-2, for contact blocks with single contacts       |  | <b>5.05.510.935/0000</b> | 2 - 143 |
| Coupling with reference numbers 1/2-5/6-3/4, for contact blocks with double contacts |  | <b>5.05.510.936/0000</b> | 2 - 143 |
| Marking tag for contact blocks/lamp sockets with screw terminals                     |  | 5.40.010.131/0000        | 2 - 145 |

**RAFIX 22 QR contact block with silver contacts**



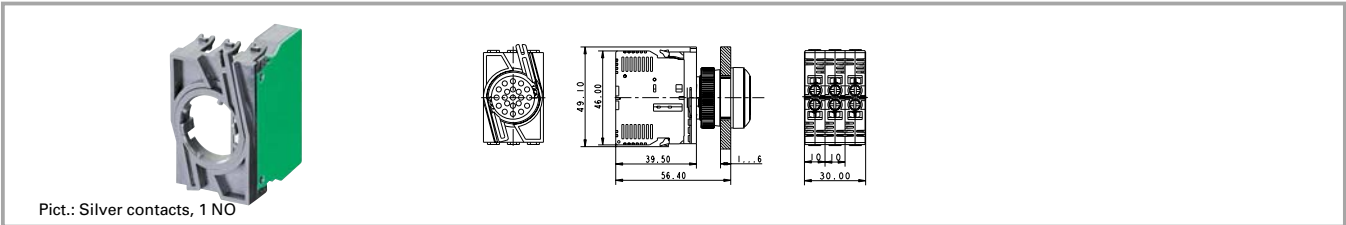
| Terminals                              | Contact arrangement | Contact materials | Lamp characteristics | Order no.                |
|--|---------------------|-------------------|----------------------|--------------------------|
| screw terminals                        | 1 NC                | Ag                |                      | <b>5.00.100.139/0000</b> |
| screw terminals                        | 1 NO                | Ag                |                      | <b>5.00.100.140/0000</b> |
| screw terminals                        | 2 NC                | Ag                |                      | <b>5.00.100.141/0000</b> |
| screw terminals                        | 2 NO                | Ag                |                      | <b>5.00.100.142/0000</b> |
| screw terminals                        | 1 NC + 1 NO         | Ag                |                      | <b>5.00.100.143/0000</b> |
| cage clamp                             | 1 NC                | Ag                |                      | <b>5.00.100.144/0000</b> |
| cage clamp                             | 1 NO                | Ag                |                      | <b>5.00.100.145/0000</b> |
| solder/quick connector<br>6.3 x 0.8 mm | 1 NC                | Ag                |                      | <b>5.00.100.194/0000</b> |
| solder/quick connector<br>6.3 x 0.8 mm | 1 NO                | Ag                |                      | <b>5.00.100.196/0000</b> |

**NEW**

Technical data see page 2 - 124



**RAFIX 22 QR contact block assembly, with coupling, without lamp socket, silver contacts**



Pict.: Silver contacts, 1 NO

| Terminals       | Contact arrangement          | Contact materials | Lamp characteristics | Order no.                |
|-----------------|------------------------------|-------------------|----------------------|--------------------------|
| screw terminals | 1 NC                         | Ag                |                      | <b>1.20.124.001/0000</b> |
| screw terminals | 1 NO                         | Ag                |                      | <b>1.20.124.002/0000</b> |
| screw terminals | 1 NC, 1 NC                   | Ag                |                      | 1.20.124.003/0000        |
| screw terminals | 1 NO , 1 NO                  | Ag                |                      | 1.20.124.004/0000        |
| screw terminals | 1 NO , 1 NC                  | Ag                |                      | <b>1.20.124.005/0000</b> |
| screw terminals | 1 NC + 1 NO                  | Ag                |                      | <b>1.20.124.017/0000</b> |
| screw terminals | 1 NC + 1 NO ,<br>1 NC + 1 NO | Ag                |                      | 1.20.124.018/0000        |
| screw terminals | 2 NC                         | Ag                |                      | <b>1.20.124.019/0000</b> |
| screw terminals | 2 NO                         | Ag                |                      | 1.20.124.020/0000        |
| clamp cage      | 1 NC                         | Ag                |                      | <b>1.20.125.001/0000</b> |
| clamp cage      | 1 NO                         | Ag                |                      | <b>1.20.125.002/0000</b> |
| clamp cage      | 1 NC, 1 NC                   | Ag                |                      | <b>1.20.125.003/0000</b> |
| clamp cage      | 1 NO , 1 NO                  | Ag                |                      | 1.20.125.004/0000        |
| clamp cage      | 1 NO , 1 NC                  | Ag                |                      | <b>1.20.125.005/0000</b> |

Technical data see page 2 - 124

**Contact arrangement example (1 NO = 1 normally open contact, 1 NC = 1 normally closed contact)**

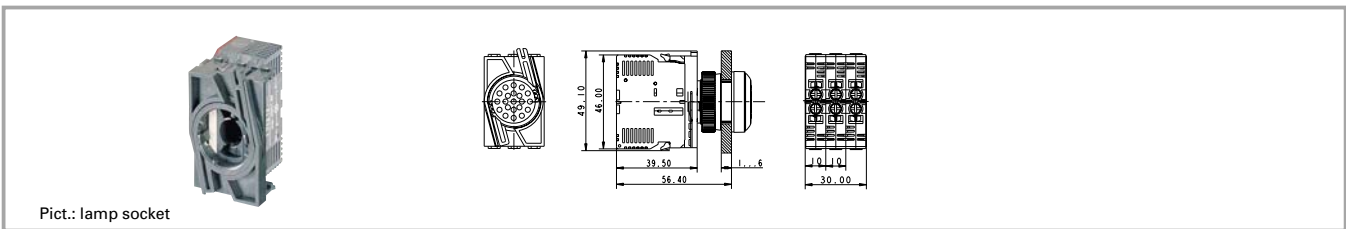
1 NO, 1 NC = **Two separate contact blocks** are mounted on the coupling: One with a normally open contact and one with a normally closed contact

1 NC + 1 NO = **One contact block with double contacts** (1 normally closed and 1 normally open) is mounted on the coupling.

2

RAFIX  
22 QR

**RAFIX 22 QR contact block assembly, with coupling and lamp socket, silver contacts**



Pict.: lamp socket

| Terminals       | Contact arrangement          | Contact materials | Lamp characteristics | Order no.                |
|-----------------|------------------------------|-------------------|----------------------|--------------------------|
| screw terminals | 1 NC                         | Ag                | BA 9 s               | 1.20.124.021/0000        |
| screw terminals | 1 NO                         | Ag                | BA 9 s               | 1.20.124.022/0000        |
| screw terminals | 1 NC, 1 NC                   | Ag                | BA 9 s               | 1.20.124.023/0000        |
| screw terminals | 1 NO , 1 NO                  | Ag                | BA 9 s               | 1.20.124.024/0000        |
| screw terminals | 1 NO , 1 NC                  | Ag                | BA 9 s               | 1.20.124.025/0000        |
| screw terminals | 1 NC + 1 NO                  | Ag                | BA 9 s               | <b>1.20.124.027/0000</b> |
| screw terminals | 1 NC + 1 NO ,<br>1 NC + 1 NO | Ag                | BA 9 s               | 1.20.124.028/0000        |
| screw terminals | 2 NC                         | Ag                | BA 9 s               | 1.20.124.029/0000        |
| screw terminals | 2 NO                         | Ag                | BA 9 s               | 1.20.124.030/0000        |
| clamp cage      | 1 NC                         | Ag                | BA 9 s               | 1.20.125.021/0000        |
| clamp cage      | 1 NO                         | Ag                | BA 9 s               | 1.20.125.022/0000        |
| clamp cage      | 1 NC, 1 NC                   | Ag                | BA 9 s               | 1.20.125.023/0000        |
| clamp cage      | 1 NO , 1 NO                  | Ag                | BA 9 s               | <b>1.20.125.024/0000</b> |
| clamp cage      | 1 NO , 1 NC                  | Ag                | BA 9 s               | <b>1.20.125.025/0000</b> |

Technical data see page 2 - 124

**Accessories:**

- Filament lamp, BA 9s base (MBC/MCC), 12 - 15 V: **1.90.060.132/0000**
- Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V: **1.90.060.133/0000**
- Filament lamp, BA 9s base (MBC/MCC), 110 - 130 V: **1.90.060.137/0000**
- LED BA 9s (MBC/MCC) superbright, red, 24 V: **1.90.690.341/0000**
- LED BA 9s (MBC/MCC) superbright, green, 24 V: **1.90.690.342/0000**
- LED BA 9s (MBC/MCC) superbright, yellow, 24 V: **1.90.690.343/0000**
- LED BA 9s (MBC/MCC) superbright, blue, 24 V: **1.90.690.344/0000**
- LED BA 9s (MBC/MCC) superbright, white, 24 V: **1.90.690.345/0000**

**Contact arrangement example (1 NO = 1 normally open contact, 1 NC = 1 normally closed contact)**

1 NO, 1 NC = **Two separate contact blocks** are mounted on the coupling: One with a normally open contact and one with a normally closed contact

1 NC + 1 NO = **One contact block with double contacts** (1 normally closed and 1 normally open) is mounted on the coupling.

BA 9s (MBC/MCC) = Lamp socket snaps onto coupling centre. More technical data see "Lamp sockets".

**RAFIX 22 QR contact blocks with gold contacts**



2

**General data**

Most of the values specified apply to all terminal and cage clamp terminal versions. Any deviating values specific to the cage clamp or quick connect version are given in parentheses ( ).






**Technical data**

|  |                                   |   |  |
|--|-----------------------------------|---|--|
| <b>Dimensions</b>                                  |                                   | <b>Electrical characteristics</b>               |  |
| Length   | 39.5 mm                           | Operating voltage AC/DC                         | 1 ... 42 V                               |
| Width  | 10 mm                             | Operating current AC/DC                         | 0,01 ... 100 mA                          |
| Height   | 46 mm                             | Rated power max.                                | 1W (ohmic load)                          |
| Mounting depth without cable                       | 56.4 mm                           | <b>Lamp characteristics</b>                     |  |
| <b>Mechanical design</b>                           |                                   | Lamp socket                                     | BA 9 s                                   |
| Mounting   | snap on coupling and actuator     | <b>Other specifications</b>                     |  |
| Contact system                                     | bridgecontact self cleaning       | Operating life                                  | 1 million at 10 mA/ 24 V DC              |
| Contact materials                                  | Au                                | Switching reliability at 24V/5mA DC             | 10 x 10 <sup>-6</sup>                    |
| Contact arrangement                                | see order block                   | Robustness                                      | acc. IEC 60947-5-5                       |
| NC contact forcibly actuated acc. to IEC 60947-5-1 | yes                               | Corresponding to CE                             | acc. EU-guideline N 72/73                |
| Terminals  | see order block                   | Shock resistance acc. to IEC 600 68-2-27        | 50 g at 11 ms, amplitude half sinusoidal |
| Terminal marking                                   | colour encoded                    | Resistance to vibrations acc. to IEC 600 68-2-6 | 10 g at 40 ... 500 Hz                    |
| Robustness   | 100 N                             | Ambient temp. operating min.                    | -25 °C                                   |
| Operating force                                    | approx. 5 N for 1 contact element | Ambient temp. operating max.                    | +70 °C                                   |
| Wire range solid wires without wire end sleeves    | 2 x 0,75 ... 2,5 mm <sup>2</sup>  | Storage temperature min.                        | -40 °C                                   |
| Wire range stranded wires without wire end sleeves | 2 x 1,0 ... 1,5 mm <sup>2</sup>   | Storage temperature max.                        | +80 °C                                   |
| Stripping length, solid or stranded                | 8 mm                              | Resistance to constant environment              | IEC 600 68-2-3 and 2-30                  |
| Wire range with wire end sleeves                   | 2 x 0,75 ... 1,5 mm <sup>2</sup>  | Resistance at variable environment              | IEC 600 68-2-14 and 2-33                 |

**Accessories RAFIX 22 QR contact blocks with gold contacts, screw terminals and cage clamp terminals**

| Description                                    | Photo | Order no.                | Page  |
|--|-------|--------------------------|-------|
| Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V |       | <b>1.90.060.133/0000</b> | 5 - 8 |

**Accessories RAFIX 22 QR contact blocks with gold contacts, screw terminals and cage clamp terminals**

| Description  | Photo  | Order no.                | Page    |
|--|--|--------------------------|---------|
| Neon lamp BA 9s (MBC/MCC), 220 V AC (red)  |  | <b>1.90.560.102/0000</b> | 5 - 9   |
| LED BA 9s (MBC/MCC) superbright, white, 24 V   |  | <b>1.90.690.345/0000</b> | 5 - 19  |
| Coupling with reference numbers 1-3-2, for contact blocks with single contacts       |  | <b>5.05.510.935/0000</b> | 2 - 143 |
| Coupling with reference numbers 1/2-5/6-3/4, for contact blocks with double contacts |  | <b>5.05.510.936/0000</b> | 2 - 143 |
| Marking tag for contact blocks/lamp sockets with screw terminals                     |  | 5.40.010.131/0000        | 2 - 145 |

2

**RAFIX 22 QR contact block with gold contacts**



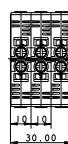
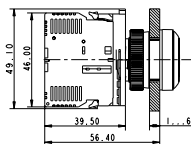
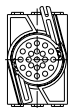
RAFIX 22 QR

| Terminals                              | Contact arrangement | Contact materials | Lamp socket | Order no.                |
|--|---------------------|-------------------|-------------|--------------------------|
| screw terminals                        | 2 NC                | Au                |             | <b>5.00.100.161/0000</b> |
| screw terminals                        | 2 NO                | Au                |             | <b>5.00.100.162/0000</b> |
| screw terminals                        | 1 NC + 1 NO         | Au                |             | <b>5.00.100.163/0000</b> |
| screw terminals                        | 1 NC                | Au                |             | <b>5.00.100.164/0000</b> |
| screw terminals                        | 1 NO                | Au                |             | <b>5.00.100.165/0000</b> |
| clamp cage                             | 1 NC                | Au                |             | <b>5.00.100.159/0000</b> |
| clamp cage                             | 1 NO                | Au                |             | <b>5.00.100.160/0000</b> |
| solder/quick connector<br>6.3 x 0.8 mm | 1 NC                | Au                |             | <b>5.00.100.193/0000</b> |
| solder/quick connector<br>6.3 x 0.8 mm | 1 NO                | Au                |             | <b>5.00.100.195/0000</b> |

**NEW**

Technical data see page 2 - 128

**RAFIX 22 QR contact block assembly, with coupling, without lamp socket, gold contacts**



Pict.: Gold contacts, 1NC + 1NO

| Terminals       | Contact arrangement          | Contact materials | Lamp socket | Order no.         |
|-----------------|------------------------------|-------------------|-------------|-------------------|
| screw terminals | 1 NC                         | Au                |             | 1.20.124.101/0000 |
| screw terminals | 1 NO                         | Au                |             | 1.20.124.102/0000 |
| screw terminals | 1 NC, 1 NC                   | Au                |             | 1.20.124.103/0000 |
| screw terminals | 1 NO , 1 NO                  | Au                |             | 1.20.124.104/0000 |
| screw terminals | 1 NO , 1 NC                  | Au                |             | 1.20.124.105/0000 |
| screw terminals | 1 NC + 1 NO                  | Au                |             | 1.20.124.117/0000 |
| screw terminals | 1 NC + 1 NO ,<br>1 NC + 1 NO | Au                |             | 1.20.124.118/0000 |
| screw terminals | 2 NC                         | Au                |             | 1.20.124.119/0000 |
| screw terminals | 2 NO                         | Au                |             | 1.20.124.120/0000 |
| clamp cage      | 1 NC                         | Au                |             | 1.20.125.101/0000 |
| clamp cage      | 1 NO                         | Au                |             | 1.20.125.102/0000 |
| clamp cage      | 1 NC, 1 NC                   | Au                |             | 1.20.125.103/0000 |
| clamp cage      | 1 NO , 1 NO                  | Au                |             | 1.20.125.104/0000 |
| clamp cage      | 1 NO , 1 NC                  | Au                |             | 1.20.125.105/0000 |

Technical data see page 2 - 128

**Contact arrangement example (1 NO = 1 normally open contact, 1 NC = 1 normally closed contact)**

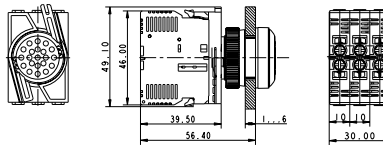
1 NO, 1 NC = **Two separate contact blocks** are mounted on the coupling: One with a normally open contact and one with a normally closed contact

1 NC + 1 NO = **One contact block with double contacts** (1 normally closed and 1 normally open) are mounted on the coupling.

2

RAFIX  
22 QR

**RAFIX 22 QR contact block assembly, with coupling and lamp socket, gold contacts**



Pict.: Silver contacts, 1NC+1NO, lamp socket, 1NC+1NO

| Terminals       | Contact arrangement          | Contact materials | Lamp socket | Order no.         |
|-----------------|------------------------------|-------------------|-------------|-------------------|
| screw terminals | 1 NC                         | Au                | BA 9 s      | 1.20.124.121/0000 |
| screw terminals | 1 NO                         | Au                | BA 9 s      | 1.20.124.122/0000 |
| screw terminals | 1 NC, 1 NC                   | Au                | BA 9 s      | 1.20.124.123/0000 |
| screw terminals | 1 NO , 1 NO                  | Au                | BA 9 s      | 1.20.124.124/0000 |
| screw terminals | 1 NO , 1 NC                  | Au                | BA 9 s      | 1.20.124.125/0000 |
| screw terminals | 1 NC + 1 NO                  | Au                | BA 9 s      | 1.20.124.127/0000 |
| screw terminals | 1 NC + 1 NO ,<br>1 NC + 1 NO | Au                | BA 9 s      | 1.20.124.128/0000 |
| screw terminals | 2 NC                         | Au                | BA 9 s      | 1.20.124.129/0000 |
| screw terminals | 2 NO                         | Au                | BA 9 s      | 1.20.124.130/0000 |
| clamp cage      | 1 NC                         | Au                | BA 9 s      | 1.20.125.121/0000 |
| clamp cage      | 1 NO                         | Au                | BA 9 s      | 1.20.125.122/0000 |
| clamp cage      | 1 NC, 1 NC                   | Au                | BA 9 s      | 1.20.125.123/0000 |
| clamp cage      | 1 NO , 1 NO                  | Au                | BA 9 s      | 1.20.125.124/0000 |
| clamp cage      | 1 NO , 1 NC                  | Au                | BA 9 s      | 1.20.125.125/0000 |

Technical data see page 2 - 128

**Accessories:**

- Filament lamp, BA 9s base (MBC/MCC), 12 - 15 V: **1.90.060.132/0000**
- Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V: **1.90.060.133/0000**
- Filament lamp, BA 9s base (MBC/MCC), 110 - 130 V: **1.90.060.137/0000**
- LED BA 9s (MBC/MCC) superbright, red, 24 V: **1.90.690.341/0000**
- LED BA 9s (MBC/MCC) superbright, green, 24 V: **1.90.690.342/0000**
- LED BA 9s (MBC/MCC) superbright, yellow, 24 V: **1.90.690.343/0000**
- LED BA 9s (MBC/MCC) superbright, blue, 24 V: **1.90.690.344/0000**
- LED BA 9s (MBC/MCC) superbright, white, 24 V: **1.90.690.345/0000**

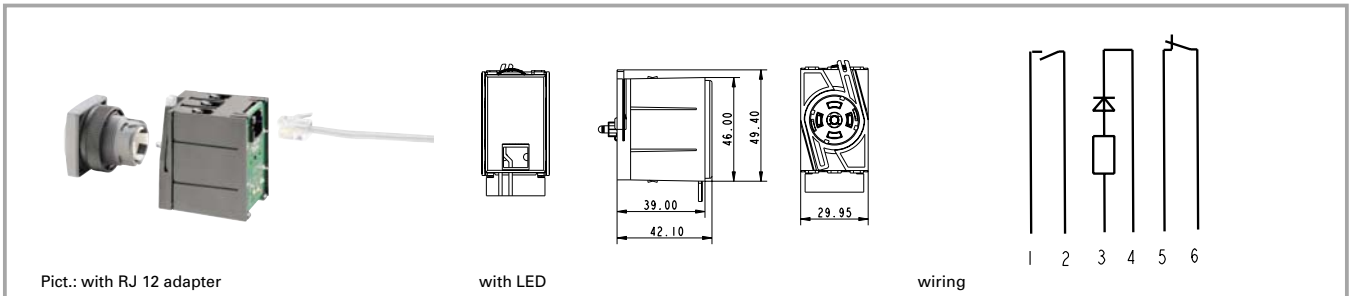
**Contact arrangement example (1 NO = 1 normally open contact, 1 NC = 1 normally closed contact)**

1 NO, 1 NC = **Two separate contact blocks** are mounted on the coupling: One with a normally open contact and one with a normally closed contact

1 NC + 1 NO = **One contact block with double contacts** (1 normally closed and 1 normally open) is mounted on the coupling.

BA 9s (MBC/MCC) = Lamp socket snaps onto coupling centre. Technical data see "Lamp sockets".

**Contact blocks with coupling, gold contacts, RJ 12 connector, integrated LED**



2

**Technical data**

**Dimensions**

|                |          |
|----------------|----------|
| Length         | 49.4 mm  |
| Width          | 29.95 mm |
| Height         | 42.1 mm  |
| Mounting depth | 62 mm    |

**Mechanical design**

|  |                             |
|--|-----------------------------|
| Mounting   | snap on actuator            |
| Contact system                                     | bridgecontact self cleaning |
| Contact materials                                  | Au                          |
| Contact arrangement                                | see order block             |
| NC contact forcibly actuated acc. to IEC 60947-5-1 | yes                         |
| Terminals  | RJ-12                       |
| Terminal marking                                   | RJ-12 plug                  |
| Mounting grid                                      | 30 x 50                     |
| Robustness   | 100 N                       |

**Other specifications**

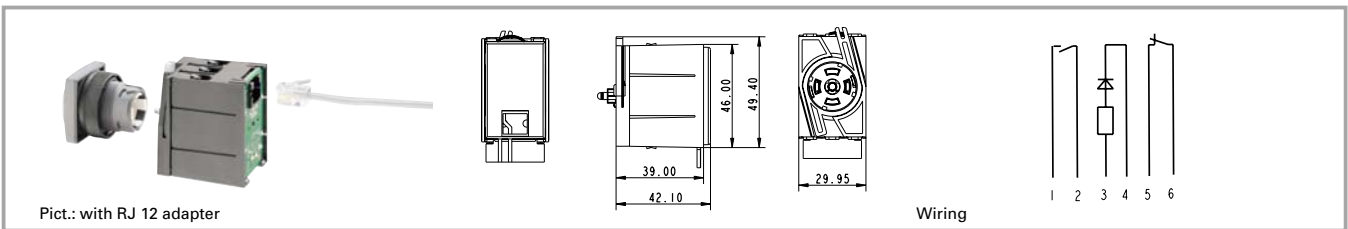
|  |                          |
|--|--------------------------|
| Operating life                           | 1000000 at 50 mA/24 V DC |
| Switching reliability at 24V/5mA DC      | 10 x 10 <sup>-6</sup>    |
| Ambient temp. operating min.             | -25 °C                   |
| Ambient temp. operating without LED max. | +70 °C                   |
| Ambient temp. operating with LED max.    | +50 °C                   |
| Storage temperature min.                 | -30 °C                   |
| Storage temperature max.                 | +80 °C                   |
| Integrated LED                           | see order block          |
| LED colour                               | see order block          |
| Resistance to constant environment       | IEC 600 68-2-3 and 2-30  |
| Resistance at variable environment       | IEC 600 68-2-14 and 2-33 |

**Electrical characteristics**

|                         |                |
|-------------------------|----------------|
| Operating voltage AC/DC | 24 V           |
| Operating current AC/DC | 0,01 ... 50 mA |

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22 QR

**Contact block with coupling, gold contacts, RJ 12 connector, integrated LED**



| Contact arrangement | Operating voltage AC/DC | Integrated LED | LED colour | Order no.         |
|---------------------|-------------------------|----------------|------------|-------------------|
| 1 NO                | 24 V                    | no             |            | 1.20.128.002/0000 |
| 1 NO                | 24 V                    | yes            | white      | 1.20.128.012/0000 |
| 1 NO                | 24 V                    | yes            | green      | 1.20.128.042/0000 |
| 1 NC + 1 NO         | 24 V                    | no             |            | 1.20.128.003/0000 |
| 1 NC + 1 NO         | 24 V                    | yes            | white      | 1.20.128.013/0000 |
| 1 NC + 1 NO         | 24 V                    | yes            | red        | 1.20.128.023/0000 |
| 2 NC                | 24 V                    | no             |            | 1.20.128.004/0000 |
| 2 NC                | 24 V                    | yes            | white      | 1.20.128.014/0000 |
| 2 NC                | 24 V                    | yes            | red        | 1.20.128.024/0000 |
| 2 NO                | 24 V                    | no             |            | 1.20.128.005/0000 |
| 2 NO                | 24 V                    | yes            | white      | 1.20.128.015/0000 |
| 2 NO                | 24 V                    | yes            | green      | 1.20.128.045/0000 |

Technical data see page 2 - 132

Other contact arrangement versions available on request.



**RAFIX 22 QR lamp sockets BA 9s (MBC/MCC), screw terminals and cage clamp terminals**



2

**Technical data**

**Dimensions**

|                              |         |
|------------------------------|---------|
| Length                       | 46 mm   |
| Width                        | 10 mm   |
| Height                       | 39.5 mm |
| Mounting depth without cable | 56.4 mm |

**Mechanical design**

|                  |                               |
|------------------|-------------------------------|
| Mounting         | snap on coupling and actuator |
| Terminals        | see order block               |
| Terminal marking | X1 = anode, X2 = cathode      |

**Lamp characteristics**

|                         |                 |
|-------------------------|-----------------|
| Lamp socket             | BA 9 s          |
| Operating voltage AC/DC | see order block |
| Lamp power max.         | 2 W             |
| Lamp voltage            | see order block |

**Other specifications**






|   |  |
|---|--|
| Approvals                                       | see order block                          |
| Robustness                                      | acc. IEC 60947-5-5                       |
| Shock resistance acc. to IEC 600 68-2-27        | 50 g at 11 ms, amplitude half sinusoidal |
| Resistance to vibrations acc. to IEC 600 68-2-6 | 10 g at 40 ... 500 Hz                    |
| Resistance to constant environment              | IEC 600 68-2-3 and 2-30                  |
| Resistance at variable environment              | IEC 600 68-2-14 and 2-33                 |
| Ambient temp. operating min.                    | -25 °C                                   |
| Ambient temp. operating max.                    | +70 °C                                   |
| Storage temperature min.                        | -40 °C                                   |
| Storage temperature max.                        | +80 °C                                   |
| Flame class acc. to UL 94                       | V 0                                      |
| Hot wire ignition acc. to IEC 60695-2-1         | yes                                      |

RAFIX 22 QR

**Accessories RAFIX 22 QR lamp sockets BA 9s (MBC/MCC), screw terminals and cage clamp terminals**

| Description                                      | Photo | Order no.                | Page   |
|--|-------|--------------------------|--------|
| Filament lamp, BA 9s base (MBC/MCC), 12 - 15 V   |       | <b>1.90.060.132/0000</b> | 5 - 8  |
| Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V   |       | <b>1.90.060.133/0000</b> | 5 - 8  |
| Filament lamp, BA 9s base (MBC/MCC), 110 - 130 V |       | <b>1.90.060.137/0000</b> | 5 - 8  |
| Neon lamp BA 9s (MBC/MCC), 220 V AC (red)        |       | <b>1.90.560.102/0000</b> | 5 - 9  |
| LED BA 9s (MBC/MCC) superbright, red, 24 V       |       | <b>1.90.690.341/0000</b> | 5 - 19 |
| LED BA 9s (MBC/MCC) superbright, green, 24 V     |       | <b>1.90.690.342/0000</b> | 5 - 19 |
| LED BA 9s (MBC/MCC) superbright, yellow, 24 V    |       | <b>1.90.690.343/0000</b> | 5 - 19 |

**Accessories RAFIX 22 QR lamp sockets BA 9s (MBC/MCC), screw terminals and cage clamp terminals**

| Description  | Photo  | Order no.                | Page    |
|--|--|--------------------------|---------|
| LED BA 9s (MBC/MCC) superbright, blue, 24 V  |  | <b>1.90.690.344/0000</b> | 5 - 19  |
| LED BA 9s (MBC/MCC) superbright, white, 24 V   |  | <b>1.90.690.345/0000</b> | 5 - 19  |
| Coupling with reference numbers 1-3-2, for contact blocks with single contacts       |  | <b>5.05.510.935/0000</b> | 2 - 143 |
| Coupling with reference numbers 1/2-5/6-3/4, for contact blocks with double contacts |  | <b>5.05.510.936/0000</b> | 2 - 143 |
| Marking tag for contact blocks/lamp sockets with screw terminals                     |  | 5.40.010.131/0000        | 2 - 145 |

2

**RAFIX 22 QR lamp socket, without coupling**



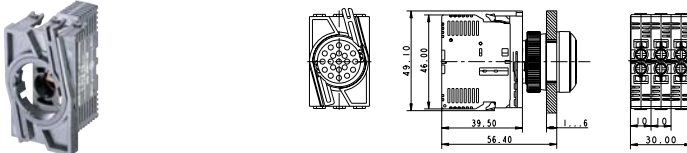
RAFIX  
22 QR

| Terminals                           | Diode and resistor | Approvals       | Lamp socket  | Operating voltage AC/DC | Lamp voltage | Order no.                |
|-------------------------------------|--------------------|-----------------|--------------|-------------------------|--------------|--------------------------|
| screw terminals                     | no                 | ENEC 10/15; ULc | BA 9 s       | 6 ... 250 V             | 6 ... 250 V  | <b>5.00.070.074/0000</b> |
| screw terminals                     | yes                | ENEC 10/15; ULc | BA 9 s       | 250 V                   | 130 V        | <b>5.00.070.080/0000</b> |
| clamp cage                          | no                 | ENEC 10/15; ULc | BA 9 sBA 9 s | 6 ... 250 V             | 6 ... 250 V  | <b>5.00.070.078/0000</b> |
| solder/quick connector 6.3 x 0.8 mm | no                 | ENEC 10/15; ULc | BA 9 s       | 6 ... 250 V             | 6 ... 250 V  | <b>5.00.070.087/0000</b> |

**NEW**

Technical data see page 2 - 134

**RAFIX 22 QR lamp socket assembly, with coupling**



Pict.: Lamp socket with cage clamp terminals

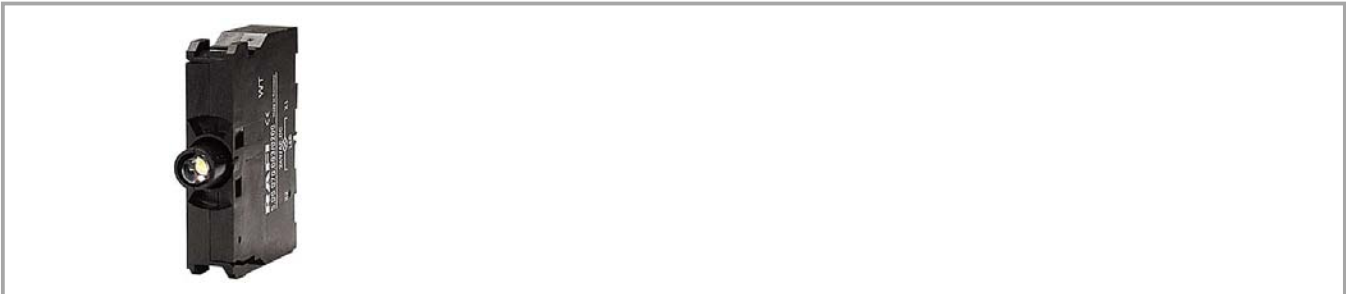
| Terminals       | Diode and resistor | Approvals          | Lamp socket | Operating voltage AC/DC | Lamp voltage | Order no.                |
|-----------------|--------------------|--------------------|-------------|-------------------------|--------------|--------------------------|
| screw terminals | no                 | ENEC 10/15;<br>ULc | BA 9 s      | 6 ... 250 V             | 6 ... 250 V  | <b>1.71.213.001/0000</b> |
| screw terminals | yes                | ENEC 10/15;<br>ULc | BA 9 s      | 250 V                   | 130 V        | <b>1.71.213.004/0000</b> |
| clamp cage      | no                 | ENEC 10/15;<br>ULc | BA 9 s      | 6 ... 250 V             | 6 ... 250 V  | <b>1.71.214.001/0000</b> |

Technical data see page 2 - 134

2

RAFIX  
22 QR

**RAFIX 22 QR lamp sockets with integrated LED, screw terminals**



2

**Technical data**

|                              |                               |   |  |
|------------------------------|-------------------------------|---|--|
| <b>Dimensions</b>            |                               | <b>Other specifications</b>                     |  |
| Length                       | 46 mm                         | Approvals                                       | ENEC 10/15; ULc                          |
| Width                        | 10 mm                         | Robustness                                      | acc. IEC 60947-5-5                       |
| Height                       | 39.5 mm                       | Shock resistance acc. to IEC 600 68-2-27        | 50 g at 11 ms, amplitude half sinusoidal |
| Mounting depth without cable | 56.4 mm                       | Resistance to vibrations acc. to IEC 600 68-2-6 | 10 g at 40 ... 500 Hz                    |
| <b>Mechanical design</b>     |                               | Resistance to constant environment              | IEC 600 68-2-3 and 2-30                  |
| Mounting                     | snap on coupling and actuator | Resistance at variable environment              | IEC 600 68-2-14 and 2-33                 |
| Diode and resistor           | see order block               | Ambient temp. operating min.                    | -20 °C                                   |
| LED colour                   | see order block               | Ambient temp. operating max.                    | +65 °C                                   |
| Terminals                    | screw terminals               | Storage temperature min.                        | -40 °C                                   |
| Terminal marking             | X1 = anode, X2 = cathode      | Storage temperature max.                        | +80 °C                                   |
| <b>Lamp characteristics</b>  |                               | Flame class acc. to UL 94                       | V 0                                      |
| Operating voltage            | see order block               | Hot wire ignition acc. to IEC 60695-2-1         | yes                                      |
| Max. current, I <sub>F</sub> | see order block               |   |  |

RAFIX 22 QR

**Accessories RAFIX 22 QR lamp sockets with integrated LED, screw terminals**

| Description  | Photo | Order no.                | Page    |
|--|-------|--------------------------|---------|
| Coupling with reference numbers 1-3-2, for contact blocks with single contacts       |       | <b>5.05.510.935/0000</b> | 2 - 143 |
| Coupling with reference numbers 1/2-5/6-3/4, for contact blocks with double contacts |       | <b>5.05.510.936/0000</b> | 2 - 143 |
| Marking tag for contact blocks/lamp sockets with screw terminals                     |       | 5.40.010.131/0000        | 2 - 145 |

**RAFIX 22 QR lamp socket with integrated LED, without coupling**



| Terminals       | Diode and resistor | LED colour | Max. current, I <sub>F</sub> | Operating voltage | Order no.         |
|-----------------|--------------------|------------|------------------------------|-------------------|-------------------|
| screw terminals |                    | white      | 15 mA                        | AC/DC 24 V        | 5.00.070.083/0200 |
| screw terminals |                    | red        | 15 mA                        | AC/DC 24 V        | 5.00.070.083/0300 |
| screw terminals |                    | yellow     | 15 mA                        | AC/DC 24 V        | 5.00.070.083/0400 |
| screw terminals |                    | green      | 15 mA                        | AC/DC 24 V        | 5.00.070.083/0500 |
| screw terminals |                    | blue       | 15 mA                        | AC/DC 24 V        | 5.00.070.083/0600 |
| screw terminals |                    | white      | 16 mA                        | AC 115 V          | 5.00.070.085/0200 |
| screw terminals |                    | red        | 16 mA                        | AC 115 V          | 5.00.070.085/0300 |
| screw terminals |                    | yellow     | 16 mA                        | AC 115 V          | 5.00.070.085/0400 |
| screw terminals |                    | green      | 16 mA                        | AC 115 V          | 5.00.070.085/0500 |
| screw terminals |                    | blue       | 16 mA                        | AC 115 V          | 5.00.070.085/0600 |
| screw terminals |                    | white      | 16 mA                        | AC 230 V          | 5.00.070.086/0200 |
| screw terminals |                    | red        | 16 mA                        | AC 230 V          | 5.00.070.086/0300 |
| screw terminals |                    | yellow     | 16 mA                        | AC 230 V          | 5.00.070.086/0400 |
| screw terminals |                    | green      | 16 mA                        | AC 230 V          | 5.00.070.086/0500 |
| screw terminals |                    | blue       | 16 mA                        | AC 230 V          | 5.00.070.086/0600 |

Technical data see page 2 - 138

**RAFIX 22 QR special accessories**



2

**Accessories RAFX 22 QR special accessories**

| Description                                | Photo  | Order no.                | Page   |
|--|--|--------------------------|--------|
| Fixing spanner for ring nut and front ring |  | <b>5.05.800.062/0000</b> | 5 - 23 |

**Housings for flush pushbuttons**



| Short text   | Feature 1 | Feature 2 | Order no.                |
|--|-----------|-----------|--------------------------|
| Housings for pushbuttons, round collar, flush lens, momentary  |           |           | <b>1.30.240.601/0000</b> |
| Housings for pushbuttons, square collar, flush lens, momentary |           |           | <b>1.30.240.602/0000</b> |

RAFIX  
22 QR

**Lenses for flush pushbuttons**



| Short text          | Feature 1              | Feature 2 | Order no.                |
|---------------------|------------------------|-----------|--------------------------|
| Lens, with diffuser | transparent colourless | flat lens | <b>5.04.926.008/1000</b> |
| Lens, with diffuser | transparent red        | flat lens | <b>5.04.926.008/1300</b> |
| Lens, with diffuser | transparent yellow     | flat lens | <b>5.04.926.008/1400</b> |
| Lens, with diffuser | transparent green      | flat lens | <b>5.04.926.008/1500</b> |
| Lens, with diffuser | transparent blue       | flat lens | <b>5.04.926.008/1600</b> |
| Lens                | opaque black           | flat lens | <b>5.49.263.019/0100</b> |
| Lens                | opaque white           | flat lens | <b>5.49.263.019/0200</b> |
| Lens                | opaque red             | flat lens | <b>5.49.263.019/0300</b> |
| Lens                | opaque yellow          | flat lens | <b>5.49.263.019/0400</b> |
| Lens                | opaque green           | flat lens | <b>5.49.263.019/0500</b> |
| Lens                | opaque blue            | flat lens | <b>5.49.263.014/0600</b> |
| Lens                | opaque slate-grey      | flat lens | <b>5.49.263.019/0700</b> |

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RAFIX  
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**Front ring**



Pict.: metal

| Short text                       | Feature 1 | Feature 2 | Order no.                |
|----------------------------------|-----------|-----------|--------------------------|
| Front ring, metal                |           |           | <b>5.45.638.015/6030</b> |
| Front ring, plastic, black       |           |           | <b>5.45.639.020/0100</b> |
| Front ring, plastic, red         |           |           | <b>5.45.639.020/0300</b> |
| Front ring, plastic, yellow      |           |           | <b>5.45.639.020/0400</b> |
| Front ring, plastic, green       |           |           | <b>5.45.639.020/0500</b> |
| Front ring, plastic, blue        |           |           | <b>5.45.639.020/0600</b> |
| Front ring, plastic, slate grey  |           |           | <b>5.45.639.020/0700</b> |
| Front ring, plastic, silver grey |           |           | <b>5.45.639.020/0800</b> |

**RAFIX 22 QR plastic front ring with thermoflex protective cap**

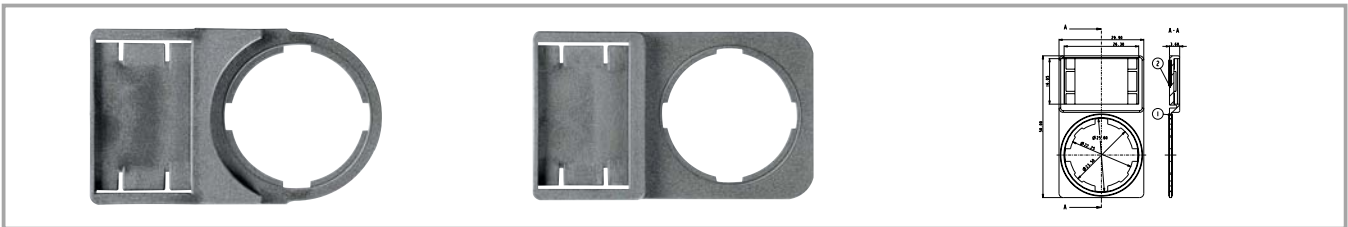


Pict.: slate-grey

| Short text  | Feature 1   | Feature 2 | Order no.                |
|---|-------------|-----------|--------------------------|
| Front ring, plastic with protective cap, slate grey             | slate-grey  |           | <b>5.05.004.914/0700</b> |
| Front ring, plastic with thermoflex protective cap, silver grey | silver-grey |           | <b>5.05.004.914/0800</b> |
| Front ring, plastic with thermoflex protective cap, black       | black       |           | <b>5.05.004.914/0100</b> |

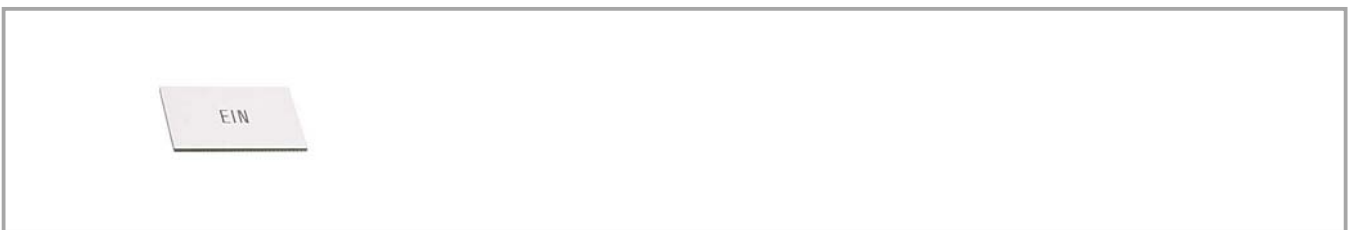


**Label holder**



| Short text  | Feature 1 | Feature 2 | Order no.         |
|---|-----------|-----------|-------------------|
| Label holder, round collar, with adhesive tape and release liner on back<br>50 x 30 x 3.6 mm  |           |           | 5.07.620.010/0000 |
| Label holder, square collar, with adhesive tape and release liner on back<br>50 x 30 x 3.6 mm |           |           | 5.07.620.011/0000 |

**Legend label to clip into label holder 5.07.620.xxx**



| Short text   | Feature 1 | Feature 2 | Order no.         |
|--|-----------|-----------|-------------------|
| Label for label holder, without legend, 16 x 28 x 0,9 mm |           |           | 5.73.110.000/0000 |

**Coupling**



| Short text   | Feature 1 | Feature 2 | Order no.         |
|--|-----------|-----------|-------------------|
| Coupling with reference numbers 1-3-2, for contact blocks with single contacts       |           |           | 5.05.510.935/0000 |
| Coupling with reference numbers 1/2-5/6-3/4, for contact blocks with double contacts |           |           | 5.05.510.936/0000 |

**Blanking cap**



| Short text                          | Feature 1 | Feature 2 | Order no.                |
|-------------------------------------|-----------|-----------|--------------------------|
| Blanking cap IP65, ring nut, square |           |           | <b>5.05.800.065/0000</b> |
| Blanking cap IP65, ring nut, round  |           |           | <b>5.05.800.064/0000</b> |

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**Ring nut**



| Short text                      | Feature 1 | Feature 2 | Order no.         |
|---------------------------------|-----------|-----------|-------------------|
| Ring nut (spare part)           |           |           | 5.24.279.012/0100 |
| Ring nut with claw (spare part) |           |           | 5.02.420.001/0000 |

RAFIX  
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**Lamp tester**



| Short text  | Feature 1 | Feature 2 | Order no.         |
|-------------|-----------|-----------|-------------------|
| Lamp tester |           |           | 5.03.771.678/0000 |

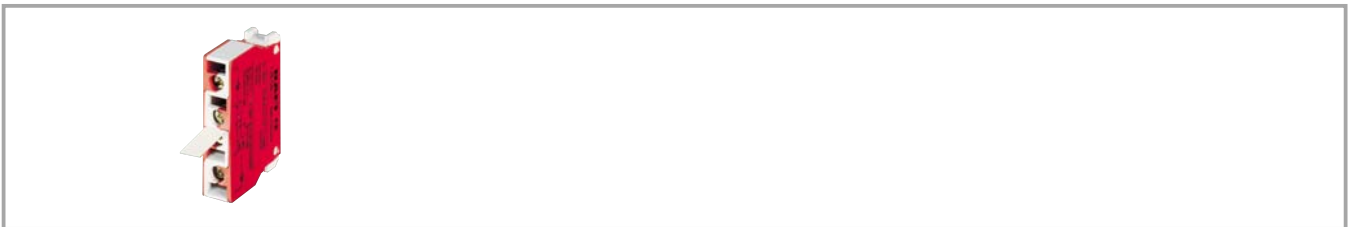
**Protective cover, suitable for pushbuttons with flush lens**



Pict.: protective lid

| Short text                     | Feature 1 | Feature 2 | Order no.         |
|--------------------------------|-----------|-----------|-------------------|
| Protective cover, latching     |           |           | 5.05.511.195/0000 |
| Protective cover, auto-closing |           |           | 5.05.511.194/0000 |

**Marking tag**

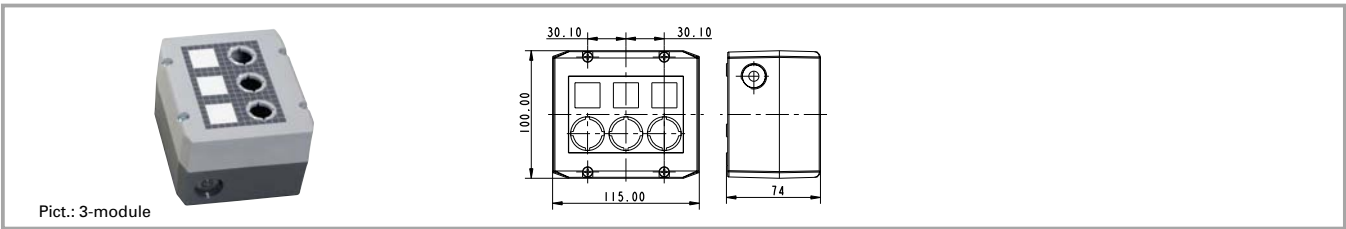


| Short text   | Feature 1 | Feature 2 | Order no.         |
|--|-----------|-----------|-------------------|
| Marking tag for contact blocks/lamp sockets with screw terminals |           |           | 5.40.010.131/0000 |

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RAFIX  
22 QR

**Insulating housing IP65 for RAFX 22 QR**



Pict.: 3-module

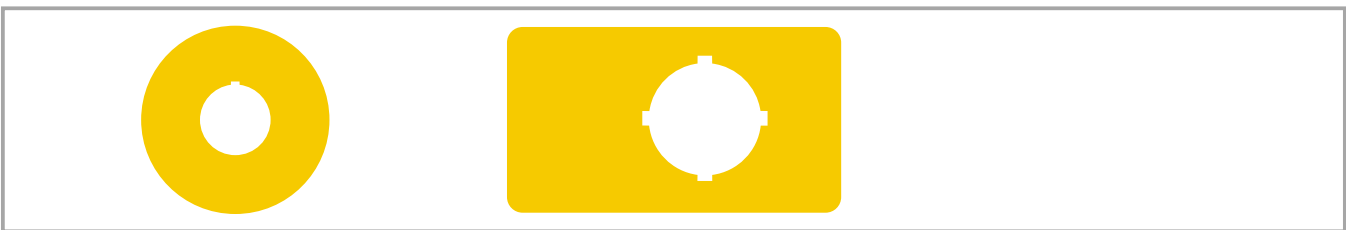
| Short text  | Feature 1 | Feature 2 | Order no.                |
|---|-----------|-----------|--------------------------|
| Insulating housing IP65 for 22 QR, 1-module, light grey/dark grey | 100 mm    | 55 mm     | <b>1.20.810.201/0000</b> |
| Insulating housing IP65 for 22 QR, 1-module, yellow/yellow        | 100 mm    | 55 mm     | <b>1.20.810.202/0000</b> |
| Insulating housing IP65 for 22 QR, 2-module, light grey/dark grey | 100 mm    | 115 mm    | <b>1.20.820.201/0000</b> |
| Insulating housing IP65 for 22 QR, 3-module, light grey/dark grey | 100 mm    | 115 mm    | <b>1.20.830.201/0000</b> |
| Insulating housing IP65 for 22 QR, 4-module, light grey/dark grey | 100 mm    | 145 mm    | <b>1.20.840.201/0000</b> |

- Attractive plastic housing to accommodate up to 4 control components
- 2 cable entries prepared: 1-,2-,3-part: M20x1,5, 4-part: M25x1,5
- Degree of protection IP 65 to DIN
- All grey housings with overlay, legending possible with legend inserts
- Wall mounting with 2 screws through housing bottom prepared
- Dimensions: (feature 2) x 100 mm x 74 mm
- Accessories: 50 pre-perforated legend inserts on a DIN A4 sheet for printing with a PC printer

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22 QR

**Emergency stop label plate**



| Short text   | Feature 1 | Feature 2 | Order no.                |
|--|-----------|-----------|--------------------------|
| Emergency stop label, yellow, round 60 mm, rigid PVC, with legend „NOT-AUS“                        |           | 60 mm     | <b>5.76.207.001/0400</b> |
| Emergency stop label, yellow, round 60 mm, rigid PVC, with legend „EMERGENCY-STOP/ARRET D'URGENCE“ |           | 60 mm     | <b>5.76.207.002/0400</b> |
| Emergency stop label, yellow, round 60 mm, PVC adhesive, without legend                            |           | 60 mm     | <b>5.76.204.100/0400</b> |
| Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend „NOT-AUS“                     |           | 60 mm     | <b>5.76.204.101/0400</b> |
| Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend „ARRET D'URGENCE“             |           | 60 mm     | 5.76.204.102/0400        |
| Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend „EMERGENCY-STOP“              |           | 60 mm     | <b>5.76.204.103/0400</b> |
| Emergency stop label, yellow 36 x 64 mm, PVC adhesive, without legend                              | 64 mm     | 36 mm     | 5.76.205.011/0400        |

Degree of protection: Rigid PVC: IP 40, adhesive foil: IP65.

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