



## RAFIX 22 QR

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### RAFIX 22 QR control component range

- Mounting hole diameter of 22.3 mm to IEC 60947-5-1
- 250 V / 10 A max.
- Degree of protection: IP65 acc. to DIN EN 60529
- 2 collar shapes
- The contact blocks snap onto the actuators with a coupling
- Screw, cage clamp or quick connect terminals
- 3 NC + 3 NO for E-Stop on request
- Contact blocks with gold or silver plated contacts
- All products are RoHS compliant.

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

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# CONTROL COMPONENTS

RAFIX 22 QR

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# CONTROL COMPONENTS

RAFIX 22 QR

## Control Components RAFIX 22 QR



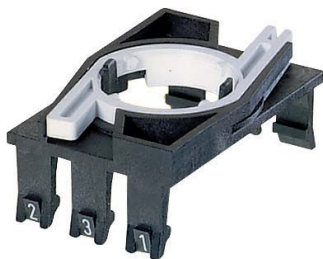
Contact blocks marked with different colors for ease of identification in stock and when connecting.

- NC contacts: red cover
- NO contacts: green cover
- NC/NO contacts: one cover red, one cover green
- Lamp socket: black
- Silver contacts: basic housing color is black
- Gold contacts: basic housing color is grey
- The terminals associated with a contact pair are color coded on the connection side and marked with the respective contact numbers:  
1, 2 = NC  
3, 4 = NO

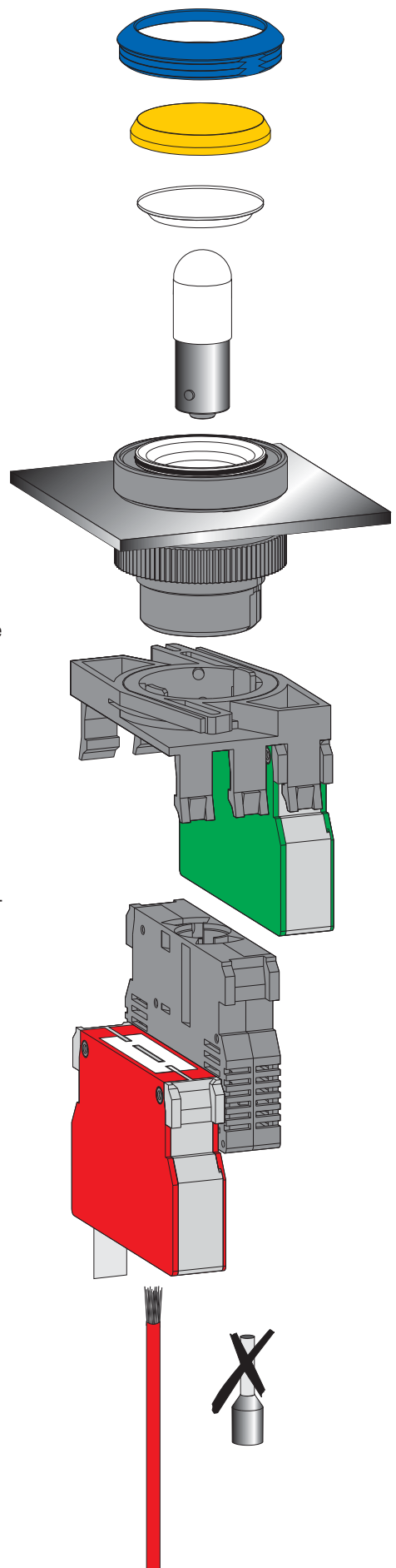
The lamps of pushbuttons and signal lamps can be replaced from the front. This method saves time and increases safety since it eliminates the need for accessing the machine/control station interior and handling live cables for lamp replacement. After unscrewing the front ring, the lens can be removed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



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## 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**
- **Spring-type terminals**  
Simply insert a screwdriver to open the terminal, insert the cable and remove the screwdriver to close the terminal.

### Your advantage:

This offers your savings in three ways:

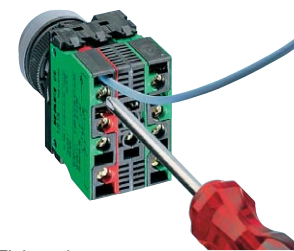
- Drastically reduced assembly time thanks to wire insertion from the rear, i. e. no more bending and lateral insertion of the wires required.
- You save material: No wire end sleeves are required.
- You save the time previously required for mounting the wire end sleeves.

## Assembly

### Screw terminals



Insert the wire



Tighten the screw

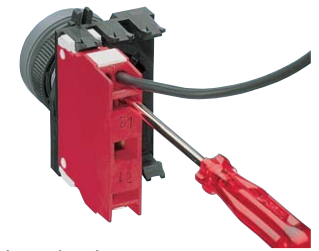


Done

### Spring-type terminals



Open the terminal



Insert the wire



Remove the screwdriver

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## 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.

# CONTROL COMPONENTS

RAFIX 22 QR

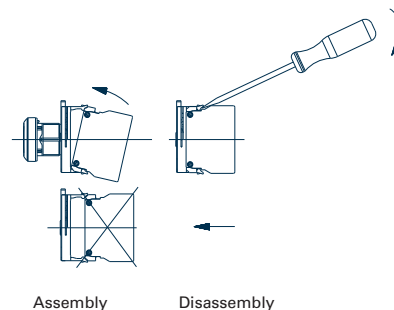
The RAFIX 22 QR control component range meets all the technical requirements and current standards for control units. The system is of modular design. Actuators, contact blocks and lamp sockets can be combined freely.



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## Sequence of assembly/disassembly

- Fix the actuator in the front panel with the ring nut.
- Snap the individual elements (maximum 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 or snap the LED unit.
- 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).

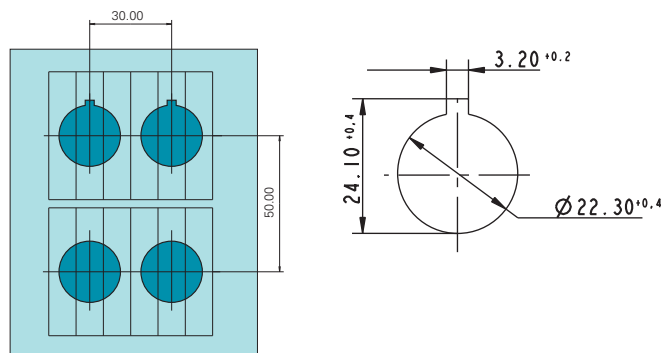


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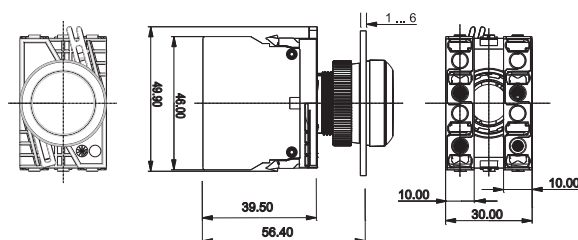
### Panel cut-out according to IEC 60947-5-1

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

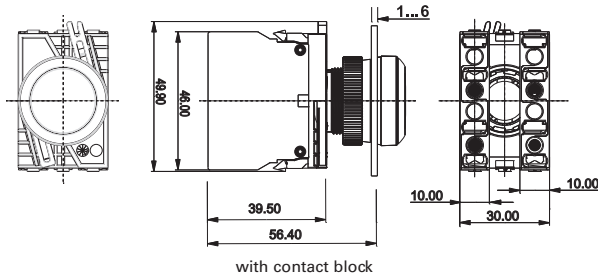
With a grid spacing of 30 mm horizontally and 50 mm vertically, the collars of the square actuators touch each other. We recommend to use the same grid spacing also for the round collar shapes (IEC 60947-5-1)



## Dimensional drawing



## RAFIX 22 QR Pushbuttons



### Technical Data

#### → General information

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

#### → Dimensions

Dimensions of collar	see order block
Overall height	see order block
Mounting depth with contact block	56.4 mm
without cable	
Mounting hole	Ø 22.3 mm
Mounting grid	50 x 30 mm

#### → Mechanical design

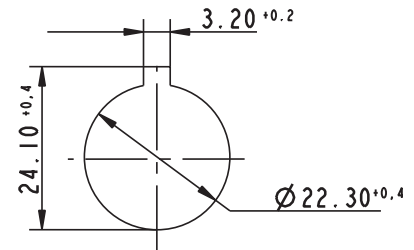
Mounting	ring nut
Contact function	see order block
Illumination	see order block

#### → Mechanical characteristics

Operating travel	4 mm
Operating force max.	approx. 5 N for 1 switching element
Robustness max.	100 N

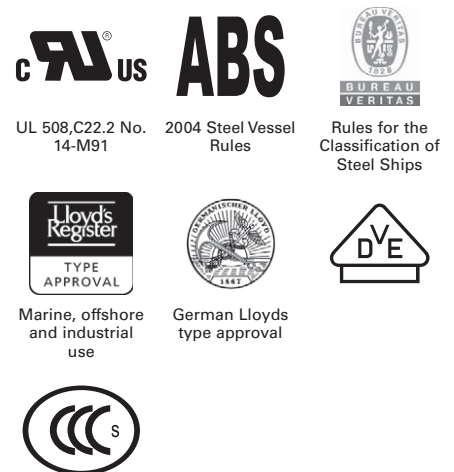
#### → Other specifications

Operating life (operations)	1,000,000 momentary / 500,000 latching
Degree of protection from front side	IP65 (DIN EN 60529)
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out to IEC 60947-5-1

### Approvals



### Accessories RAFIX 22 QR - Pushbutton



#### → Description

Description	Photo	Order no.	Additional accessories see page
RAFIX - Insulating housing IP65, Ø 22.3 mm		-	2 - 79, 2 - 148, 5 - 20
RAFIX 22 QR - Contact blocks with gold contacts		-	2 - 138
RAFIX 22 QR - Contact blocks with silver contacts		-	2 - 135

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

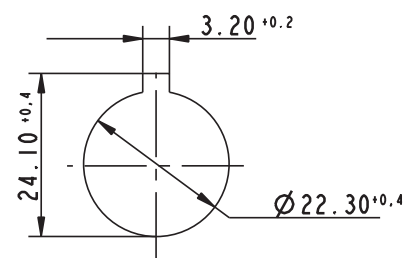
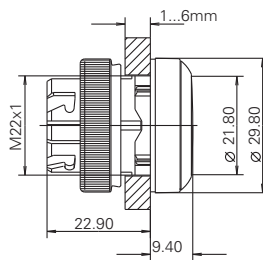
**- Table (continued) -  
Accessories RAFIX 22 QR - Pushbutton**

→ Description	Photo	Order no.	Additional accessories see page
Socket BA 9s (MBC/MCC), LED superbright		-	5 - 8
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25



## RAFIX 22 QR Pushbutton, flush lens, round collar

Technical data see page 2 - 91



Panel cut-out to IEC 60947-5-1

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

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

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

**Accessoires:**

Label holder, round collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07.620.010/0000

Protective cover, suitable for pushbuttons with flush lens: see page 2 - 147

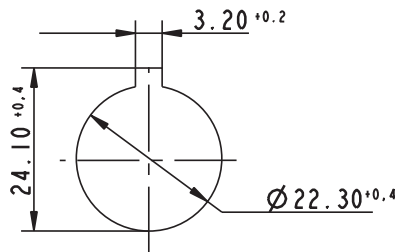
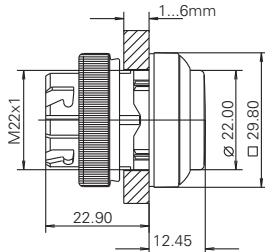
2

RAFIX  
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## RAFIX 22 QR Pushbutton, protruding lens, round collar

Technical data see page 2 - 91



Panel cut-out to IEC 60947-5-1



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→ Illumination	Color of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent red	1.30.240.201/13xx	1.30.240.221/1300	1.30.240.211/13xx	1.30.240.231/1300
yes	transparent yellow	1.30.240.201/14xx	1.30.240.221/1400	1.30.240.211/14xx	1.30.240.231/1400
yes	transparent green	1.30.240.201/15xx	1.30.240.221/1500	1.30.240.211/15xx	1.30.240.231/1500
yes	transparent blue	1.30.240.201/16xx	1.30.240.221/1600	1.30.240.211/16xx	1.30.240.231/1600
yes	transparent white	1.30.240.201/10xx	1.30.240.221/1000	1.30.240.211/10xx	1.30.240.231/1000
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 white	1.30.240.301/02xx	1.30.240.321/0200	1.30.240.311/02xx	1.30.240.331/0200
no	opaque slate-grey	1.30.240.301/07xx	1.30.240.321/0700	1.30.240.311/07xx	1.30.240.331/0700
no	opaque black	1.30.240.301/01xx	1.30.240.321/0100	1.30.240.311/01xx	1.30.240.331/0100

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

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

**Accessoires:**

Label holder, round collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07620.010/0000

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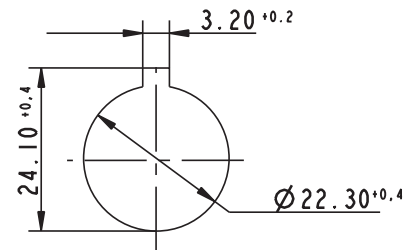
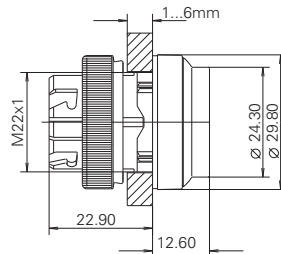
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Pushbutton, protruding front ring, round collar

Technical data see page 2 - 91



Panel cut-out to IEC 60947-5-1

Illumination	Color of lens	Order no. momentary	
		Plastic front ring	Metallized front ring
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
yes	transparent white	1.30.240.401/10xx	1.30.240.421/1000
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 white	1.30.240.501/02xx	1.30.240.521/0200
no	opaque slate-grey	1.30.240.501/07xx	1.30.240.521/0700
no	opaque black	1.30.240.501/01xx	1.30.240.521/0100

xx = Front ring color: 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.

### Accessoires:

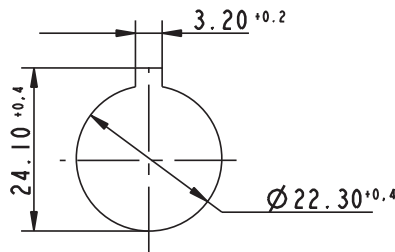
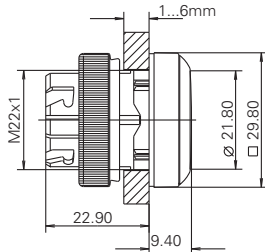
Label holder, round collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07620.010/0000

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## RAFIX 22 QR Pushbutton, flush lens, square collar

Technical data see page 2 - 91



Panel cut-out to IEC 60947-5-1



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

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22 QR

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

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

**Accessoires:**

Label holder, square collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07.620.011/0000

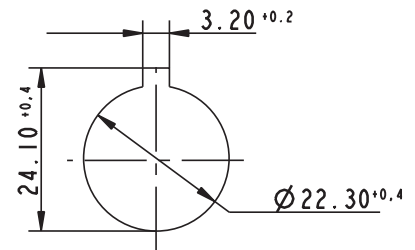
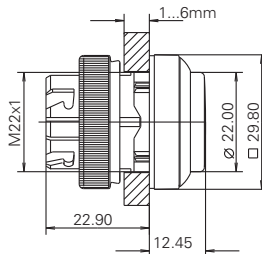
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Pushbutton, protruding lens, square collar

Technical data see page 2 - 91



Panel cut-out to IEC 60947-5-1

→ Illumination	Color of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent red	1.30.240.251/13xx	1.30.240.271/1300	1.30.240.261/13xx	1.30.240.281/1300
yes	transparent yellow	1.30.240.251/14xx	1.30.240.271/1400	1.30.240.261/14xx	1.30.240.281/1400
yes	transparent green	1.30.240.251/15xx	1.30.240.271/1500	1.30.240.261/15xx	1.30.240.281/1500
yes	transparent blue	1.30.240.251/16xx	1.30.240.271/1600	1.30.240.261/16xx	1.30.240.281/1600
yes	transparent white	1.30.240.251/10xx	1.30.240.271/1000	1.30.240.261/10xx	1.30.240.281/1000
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 white	1.30.240.351/02xx	1.30.240.371/0200	1.30.240.361/02xx	1.30.240.381/0200
no	opaque slate-grey	1.30.240.351/07xx	1.30.240.371/0700	1.30.240.361/07xx	1.30.240.381/0700
no	opaque black	1.30.240.351/01xx	1.30.240.371/0100	1.30.240.361/01xx	1.30.240.381/0100

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

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

### Accessoires:

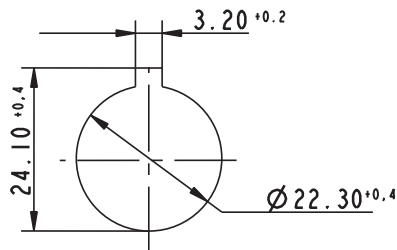
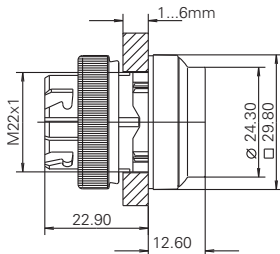
Label holder, square collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07620.011/0000

2

RAFIX  
22 QR

## RAFIX 22 QR Pushbutton, protruding front ring, square collar

Technical data see page 2 - 91



Panel cut-out to IEC 60947-5-1



2

RAFIX  
22 QR

Illumination	Color of lens	Order no. momentary	
		Plastic front ring	Metallized front ring
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
yes	transparent white	1.30.240.451/10xx	1.30.240.471/1000
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 white	1.30.240.551/02xx	1.30.240.571/0200
no	opaque slate-grey	1.30.240.551/07xx	1.30.240.571/0700
no	opaque black	1.30.240.551/01xx	1.30.240.571/0100

xx = Front ring color: 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.

**Accessoires:**

Label holder, square collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07.620.011/0000

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

2



## RAFIX 22 QR Pushbuttons with protective cap

→ Pushbutton with protective cap for use under rugged conditions.

### Technical Data

#### → General information

Form of lens	flat lens
Color of lens	see order block
Color of front ring	see order block
Form of collar	see order block

#### → Dimensions

Dimensions of collar	see order block
Overall height	see order block
Mounting depth with contact block without cable	56.4 mm
Mounting hole	Ø 22.3 mm
Mounting grid	50 x 30 mm

#### → Mechanical design

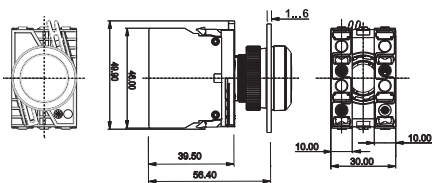
Mounting	ring nut
Contact function	momentary
Illumination	see order block

#### → Mechanical characteristics

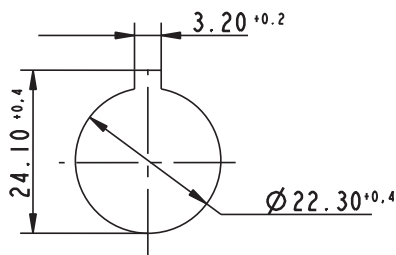
Operating travel	4 mm
Operating force max.	approx. 5 N for 1 switching element
Robustness max.	100 N

#### → Other specifications

Operating life (operations)	1,000,000 momentary
Degree of protection from front side	IP65 (DIN EN 60529); IP69K (ISO 20653), water temp. 23 °C ±3 °C
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



with contact block



Panel cut-out to IEC 60947-5-1

### Approvals



UL 508, C22.2 No. 14-M91



2004 Steel Vessel Rules



Rules for the Classification of Steel Ships








Marine, offshore and industrial use



German Lloyd's type approval

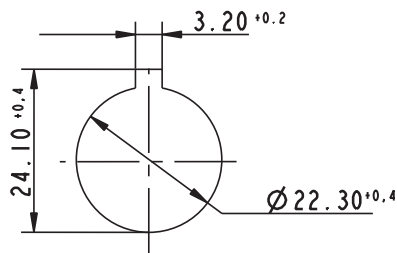
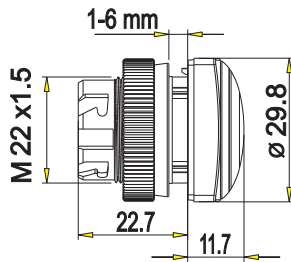


### Accessories RAFIX 22 QR - Pushbutton with protective cap

→ Description	Photo	Order no.	Additional accessories see page
RAFIX - Insulating housing IP65, Ø 22.3 mm		-	2 - 79, 2 - 148, 5 - 20
RAFIX 22 QR - Contact blocks with gold contacts		-	2 - 138
RAFIX 22 QR - Contact blocks with silver contacts		-	2 - 135
Socket BA 9s (MBC/MCC), LED superbright		-	5 - 8
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25

## RAFIX 22 QR Pushbutton with protective cap, flush lens, round collar

Technical data see page 2 - 98



Panel cut-out to IEC 60947-5-1



→ Illumination	Color of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent red	1.30.240.005/13xx	-	-	-
yes	transparent yellow	1.30.240.005/14xx	-	-	-
yes	transparent green	1.30.240.005/15xx	-	-	-
yes	transparent blue	1.30.240.005/16xx	-	-	-
yes	transparent white	1.30.240.005/10xx	-	-	-
no	opaque red	1.30.240.105/03xx	-	-	-
no	opaque yellow	1.30.240.105/04xx	-	-	-
no	opaque green	1.30.240.105/05xx	-	-	-
no	opaque blue	1.30.240.105/06xx	-	-	-
no	opaque white	1.30.240.105/02xx	-	-	-
no	opaque slate-grey	1.30.240.105/07xx	-	-	-
no	opaque black	1.30.240.105/01xx	-	-	-

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

– Table (continued) –

## RAFIX 22 QR - Pushbutton with protective cap, flush lens, round collar

Pushbutton with protective cap for use under rugged conditions.

Legending on request.

xx = color of front ring: black = 01, silver grey = 08

### Accessoires:

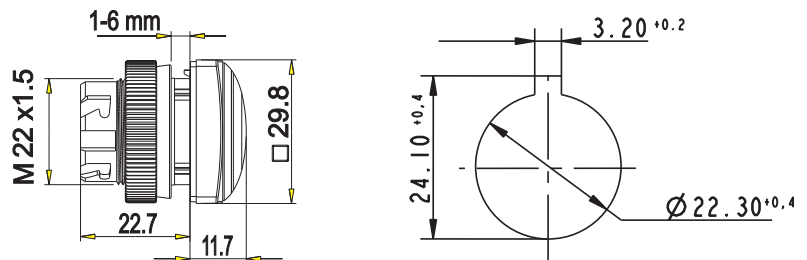
Label holder, round collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07620.010/0000

Protective cover, suitable for pushbuttons with flush lens: see page 2 - 147



## RAFIX 22 QR Pushbutton with protective cap, flush lens, square collar

Technical data see page 2 - 98



Panel cut-out to IEC 60947-5-1

→ Illumination	Color of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent red	1.30.240.055/13xx	-	-	-
yes	transparent yellow	1.30.240.055/14xx	-	-	-
yes	transparent green	1.30.240.055/15xx	-	-	-
yes	transparent blue	1.30.240.055/16xx	-	-	-
yes	transparent white	1.30.240.055/10xx	-	-	-
no	opaque red	1.30.240.155/03xx	-	-	-
no	opaque yellow	1.30.240.155/04xx	-	-	-
no	opaque green	1.30.240.155/05xx	-	-	-
no	opaque blue	1.30.240.155/06xx	-	-	-
no	opaque white	1.30.240.155/02xx	-	-	-
no	opaque slate-grey	1.30.240.155/07xx	-	-	-
no	opaque black	1.30.240.155/01xx	-	-	-

Pushbutton with protective cap for use under rugged conditions.

Legending on request.

xx = color of front ring: black = 01, silver grey = 08

### Accessoires:

Label holder, square collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07620.011/0000



## RAFIX 22 QR Selector switches

→ The illuminated selector switches are provided with translucent handle markings. These are opaque on the non-illuminated versions. For colored illumination of the translucent handle marking please use contact blocks with lamp sockets and colored LED BA9s (see chapter 5 Accessories).

### Technical Data

#### → General information

Actuator	handle
Marking of handle	white
Color of front ring	see order block
Form of collar	see order block

#### → Dimensions

Dimensions of collar	see order block
Overall height	22.2 mm
Mounting depth with contact block without cable	56.4 mm
Mounting hole	Ø 22.3 mm
Mounting grid	50 x 30 mm

#### → Mechanical design

Mounting	ring nut
Contact function	see order block
Illumination	see order block
Rotating angle	see order block

#### → Mechanical characteristics

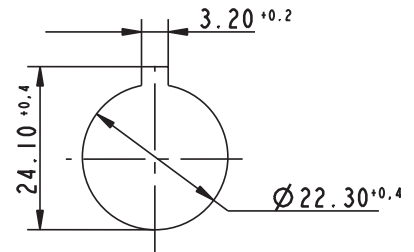
Operating force max.	approx. 5 N for 1 switching element
Torque max.	2 Nm

#### → Electrical characteristics

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

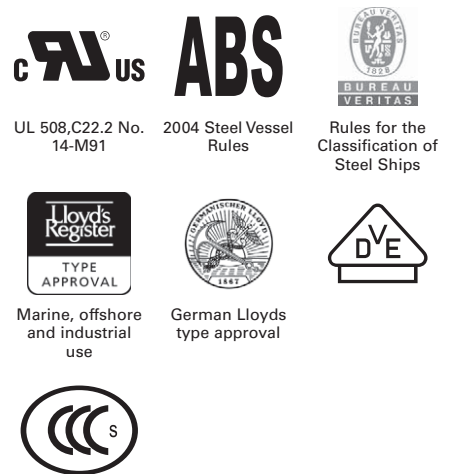
#### → Other specifications

Operating life (operations)	500,000
Degree of protection from front side	IP65 (DIN EN 60529)
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out to IEC 60947-5-1

### Approvals






### Accessories RAFIX 22 QR - Selector switch

→ Description	Photo	Order no.	Additional accessories see page
BA 9s base (MBC/MCC), filament lamps, shape A, DIN 49851		-	5 - 11
RAFIX - Insulating housing IP65, Ø 22.3 mm		-	2 - 79, 2 - 148, 5 - 20
RAFIX 22 QR - Contact blocks with gold contacts		-	2 - 138

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

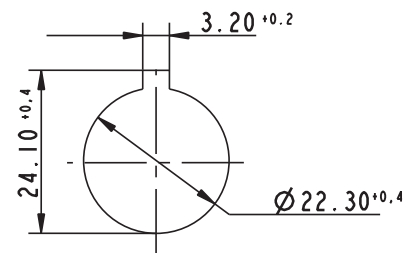
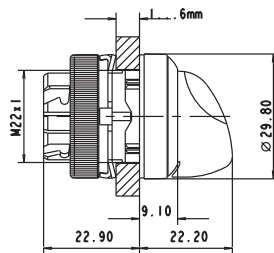
– Table (continued) –  
Accessories RAFIX 22 QR - Selector switch

→ Description	Photo	Order no.	Additional accessories see page
RAFIX 22 QR - Contact blocks with silver contacts		-	2 - 135
Socket BA 9s (MBC/MCC), LED superbright		-	5 - 8
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25





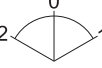
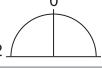
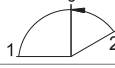



## RAFIX 22 QR Selector switch, round collar, short handle

Technical data see page 2 - 101









Panel cut-out to IEC 60947-5-1

→ Illumination	Contact function	Rotating angle	Diagram	Order no.	
				Plastic front ring	Metallized front ring
yes	momentary	1 x 40°		1.30.242.001/22xx	1.30.242.002/2200
yes	momentary	2 x 40°		1.30.242.026/22xx	1.30.242.027/2200
yes	latching	1 x 90°, form L		1.30.242.101/22xx	1.30.242.102/2200
yes	latching	1 x 90°, form V		1.30.242.201/22xx	1.30.242.202/2200
yes	latching	2 x 60°		1.30.242.301/22xx	1.30.242.302/2200
yes	latching	2 x 90°		1.30.242.126/22xx	1.30.242.127/2200
yes	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°		1.30.242.426/22xx	1.30.242.427/2200
no	momentary	1 x 40°		1.30.242.501/02xx	1.30.242.502/0200

2

RAFIX  
22 QR

– Table (continued) –  
RAFIX 22 QR - Selector switch, round collar, short handle

→ Illumination	Contact function	Rotating angle		Order no.	
				Plastic front ring	Metallized front ring
no	momentary	2 x 40°		1.30.242.526/02xx	1.30.242.527/0200
no	latching	1 x 90°, form L		1.30.242.601/02xx	1.30.242.602/0200
no	latching	1 x 90°, form V		1.30.242.701/02xx	1.30.242.702/0200
no	latching	2 x 60°		1.30.242.801/02xx	1.30.242.802/0200
no	latching	2 x 90°		1.30.242.626/02xx	1.30.242.627/0200
no	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°		1.30.242.926/02xx	1.30.242.927/0200

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

Included: Ring nut with claw.

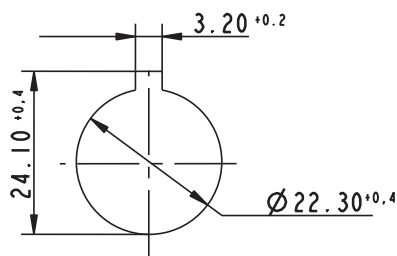
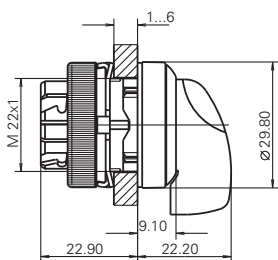
At keylock switches with 3 switching positions (e.g. 2 x 90 degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation.

**Accessoires:**

Label holder, round collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07.620.010/0000



## RAFIX 22 QR Selector switch, round collar, long handle

Technical data see page 2 - 101



Panel cut-out to IEC 60947-5-1



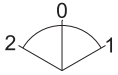
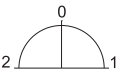
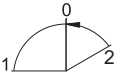




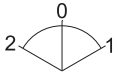
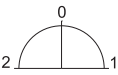
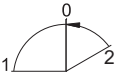


→ Illumination	Contact function	Rotating angle		Order no.	
				Plastic front ring	Metallized front ring
yes	momentary	1 x 40°		1.30.242.011/22xx	1.30.242.012/2200
yes	momentary	2 x 40°		1.30.242.036/22xx	1.30.242.037/2200

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

– Table (continued) –  
RAFIX 22 QR - Selector switch, round collar, long handle

→ Illumination	Contact function	Rotating angle		Order no.	
				Plastic front ring	Metallized front ring
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
yes	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°		1.30.242.436/22xx	1.30.242.437/2200
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
no	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°		1.30.242.936/02xx	1.30.242.937/0200

xx = Front ring color: black = 01, slate grey = 07, silver grey = 08; other colors 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.

**Accessoires:**

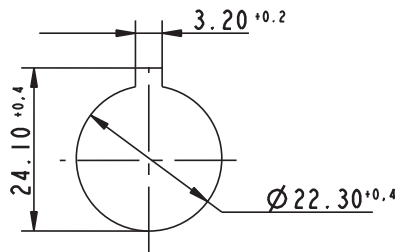
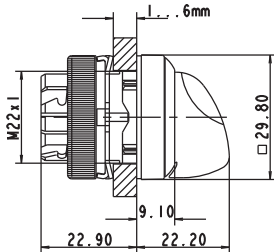
Label holder, round collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07620.010/0000

2

RAFIX  
22 QR

## RAFIX 22 QR Selector switch, square collar, short handle

Technical data see page 2 - 101



Panel cut-out to IEC 60947-5-1



→ Illumination	Contact function	Rotating angle		Order no.	
				Plastic front ring	Metallized front ring
yes	momentary	1 x 40°		1.30.242.051/22xx	1.30.242.052/2200
yes	momentary	2 x 40°		1.30.242.076/22xx	1.30.242.077/2200
yes	latching	1 x 90°, form L		1.30.242.151/22xx	1.30.242.152/2200
yes	latching	1 x 90°, form V		1.30.242.251/22xx	1.30.242.252/2200
yes	latching	2 x 60°		1.30.242.351/22xx	1.30.242.352/2200
yes	latching	2 x 90°		1.30.242.176/22xx	1.30.242.177/2200
yes	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°		1.30.242.476/22xx	1.30.242.477/2200
no	momentary	1 x 40°		1.30.242.551/02xx	1.30.242.552/0200
no	momentary	2 x 40°		1.30.242.576/02xx	1.30.242.577/0200
no	latching	1 x 90°, form L		1.30.242.651/02xx	1.30.242.652/0200
no	latching	1 x 90°, form V		1.30.242.751/02xx	1.30.242.752/0200
no	latching	2 x 60°		1.30.242.851/02xx	1.30.242.852/0200
no	latching	2 x 90°		1.30.242.676/02xx	1.30.242.677/0200
no	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°		1.30.242.976/02xx	1.30.242.977/0200

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

– Table (continued) –

## RAFIX 22 QR - Selector switch, square collar, short handle

xx = Front ring color: black = 01, slate grey = 07, silver grey = 08; other colors 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.

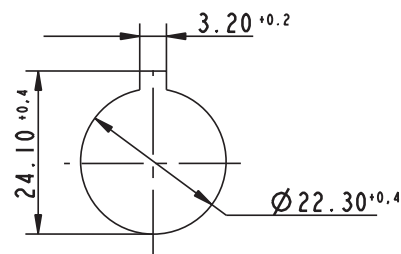
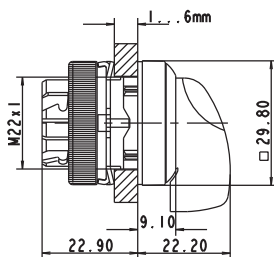
### Accessoires:

Label holder, square collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07.620.011/0000



## RAFIX 22 QR Selector switch, square collar, long handle

Technical data see page 2 - 101



Panel cut-out to IEC 60947-5-1

→ Illumination	Contact function	Rotating angle		Order no.	
				Plastic front ring	Metallized front ring
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
yes	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°		1.30.242.486/22xx	1.30.242.487/2200
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


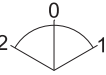
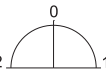
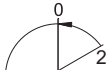
2

RAFIX  
22 QR

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

– Table (continued) –  
RAFIX 22 QR - Selector switch, square collar, long handle

→ Illumination	Contact function	Rotating angle		Order no.	
				Plastic front ring	Metallized front ring
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
no	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°		1.30.242.986/02xx	1.30.242.987/0200

xx = Front ring color: black = 01, slate grey = 07, silver grey = 08; other colors 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.

**Accessoires:**

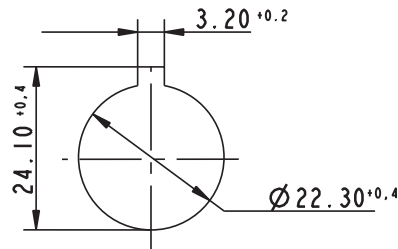
Label holder, square collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07.620.011/0000

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Keylock switches



Panel cut-out to IEC 60947-5-1

2

### Approvals



UL 508, C22.2  
No. 14-M91



2004 Steel Vessel  
Rules



Rules for the  
Classification of  
Steel Ships



Marine, offshore  
and industrial  
use



Type approval



→ The locking systems we use are created according to DIN EN 1303 by leading lock manufacturers. They are open, mechanical systems that require occasional maintenance of the machinery or plant operator depending on environmental conditions.

### Technical Data

#### → General information

Actuator	Key
Color of front ring	see order block
Form of collar	see order block

#### → Dimensions

Dimensions of collar	see order block
Overall height	30.6 mm
Mounting depth with contact block without cable	56.4 mm
Mounting hole	Ø 22.3 mm
Mounting grid	50 x 30 mm

#### → Mechanical design

Mounting	ring nut
Contact function	see order block
Illumination	no
Lock	RONIS
Wafers	4
Lock type	see order block
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
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#### → Other specifications

Operating life (operations)	300,000 momentary / 50,000 latching
Degree of protection from front side	IP65 (DIN EN 60529)
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



# CONTROL COMPONENTS

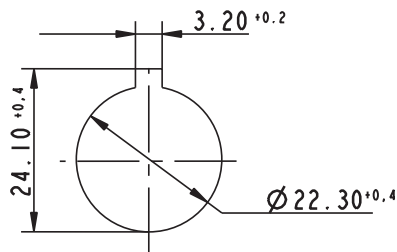
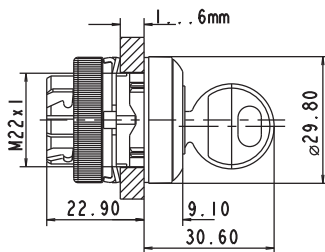
RAFIX 22 QR - ACTUATORS AND INDICATORS

## Accessories RAFIX 22 QR - Keylock switch

→ Description	Photo	Order no.	Additional accessories see page
RAFIX - Insulating housing IP65, Ø 22.3 mm		-	2 - 79, 2 - 148, 5 - 20
RAFIX 22 QR - Contact blocks with gold contacts		-	2 - 138
RAFIX 22 QR - Contact blocks with silver contacts		-	2 - 135
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25
Spare key RONIS 455, delivery content 2 keys		5.58.017.001/0000	-
Spare key RONIS 1122E, delivery content 2 keys		5.58.017.403/0000	-
Spare key RONIS 421, delivery content 2 keys		5.58.017.421/0000	-






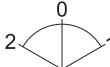
## RAFIX 22 QR Keylock switch, round collar

Technical data see page 2 - 108



Panel cut-out to IEC 60947-5-1



→ Lock type	Rotating angle	Contact function	Key removal position	Rotating angle	Order no.	
					Plastic front ring	Metallized front ring
421	1 x 40°	momentary	0		1.30.245.003/xxxx	1.30.245.004/0000
421	2 x 40°	momentary	0		1.30.245.103/xxxx	1.30.245.104/0000
421	1 x 90°, form L	latching	0		1.30.245.203/xxxx	1.30.245.204/0000
421	1 x 90°, form V	latching	0		1.30.245.303/xxxx	1.30.245.304/0000
421	1 x 90°, form V	latching	0+1		1.30.245.323/xxxx	1.30.245.324/0000
421	2 x 60°	latching	0+1+2		-	1.30.245.734/0000

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

– Table (continued) –  
RAFIX 22 QR - Keylock switch, round collar

→ Lock type	Rotating angle	Contact function	Key removal position	Rotating angle	Order no.	
					Plastic front ring	Metallized front ring
421	2 x 90°	latching	0		1.30.245.403/xxxx	1.30.245.404/0000
421	2 x 90°	latching	0+1+2		1.30.245.433/xxxx	1.30.245.434/0000
421	1 x 90° and 1 x 40°	latching 1 x 90° and momentary 1 x 40°	0+2		-	1.30.245.524/0000
455	1 x 40°	momentary	0		1.30.245.001/xxxx	1.30.245.002/0000
455	2 x 40°	momentary	0		1.30.245.101/xxxx	1.30.245.102/0000
455	1 x 90°, form L	latching	0		1.30.245.201/xxxx	1.30.245.202/0000
455	1 x 90°, form L	latching	0+1		1.30.245.221/xxxx	1.30.245.222/0000
455	1 x 90°, form V	latching	0		1.30.245.301/xxxx	1.30.245.302/0000
455	1 x 90°, form V	latching	0+1		1.30.245.321/xxxx	1.30.245.322/0000
455	2 x 60°	latching	0+1+2		1.30.245.731/xxxx	1.30.245.732/0000
455	2 x 90°	latching	0+1+2		1.30.245.431/xxxx	1.30.245.432/0000
455	2 x 90°	latching	0		1.30.245.401/xxxx	1.30.245.402/0000
455	1 x 90° and 1 x 40°	latching 1 x 90° and momentary 1 x 40°	0		-	1.30.245.502/0000
455	1 x 90° and 1 x 40°	latching 1 x 90° and momentary 1 x 40°	0+2		-	1.30.245.522/0000
1122E	1 x 40°	momentary	0		1.30.245.005/xxxx	1.30.245.006/0000
1122E	2 x 40°	momentary	0		1.30.245.105/xxxx	1.30.245.106/0000
1122E	1 x 90°, form L	latching	0		1.30.245.205/xxxx	1.30.245.206/0000
1122E	1 x 90°, form V	latching	0		1.30.245.305/xxxx	1.30.245.306/0000
1122E	1 x 90°, form V	latching	0+1		1.30.245.325/xxxx	1.30.245.326/0000
1122E	2 x 90°	latching	0		1.30.245.405/xxxx	1.30.245.406/0000

2

RAFIX  
22 QR

– Table (continued) –  
RAFIX 22 QR - Keylock switch, round collar

→ Lock type	Rotating angle	Contact function	Key removal position	Rotating angle	Order no.	
					Plastic front ring	Metallized front ring
1122E	2 x 90°	latching	0+1+2		1.30.245.435/xxxx	1.30.245.436/0000

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

Included: Ring nut with claw.

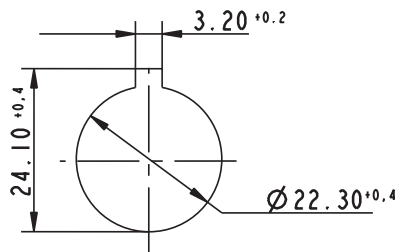
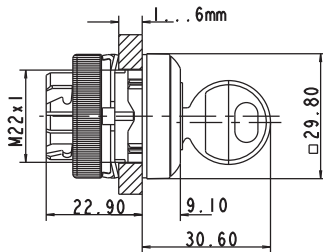
On selector switches with 3 switching positions (e.g. 2 x 90 degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation.

**Accessoires:**

Label holder, round collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07.620.010/0000

## RAFIX 22 QR Keylock switch, square collar

Technical data see page 2 - 108



Panel cut-out to IEC 60947-5-1




















→ Lock type	Rotating angle	Contact function	Key removal position	Rotating angle	Order no.	
					Plastic front ring	Metallized front ring
421	1 x 40°	momentary	0		1.30.245.053/xxxx	1.30.245.054/0000
421	2 x 40°	momentary	0		1.30.245.153/xxxx	1.30.245.154/0000
421	1 x 90°, form L	latching	0		1.30.245.253/xxxx	1.30.245.254/0000
421	1 x 90°, form V	latching	0		1.30.245.353/xxxx	1.30.245.354/0000
421	1 x 90°, form V	latching	0+1		-	1.30.245.374/0000
421	2 x 90°	latching	0		1.30.245.453/xxxx	1.30.245.454/0000
421	2 x 90°	latching	0+1+2		1.30.245.483/xxxx	1.30.245.484/0000

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

– Table (continued) –  
RAFIX 22 QR - Keylock switch, square collar

→ Lock type	Rotating angle	Contact function	Key removal position	Rotating angle	Order no.	
					Plastic front ring	Metallized front ring
455	1 x 40°	momentary	0		1.30.245.051/xxxx	1.30.245.052/0000
455	2 x 40°	momentary	0		1.30.245.151/xxxx	1.30.245.152/0000
455	1 x 90°, form L	latching	0		1.30.245.251/xxxx	1.30.245.252/0000
455	1 x 90°, form L	latching	0+1		1.30.245.271/xxxx	1.30.245.272/0000
455	1 x 90°, form V	latching	0		1.30.245.351/xxxx	1.30.245.352/0000
455	1 x 90°, form V	latching	0+1		1.30.245.371/xxxx	1.30.245.372/0000
455	2 x 60°	latching	0+1+2		1.30.245.781/xxxx	1.30.245.782/0000
455	2 x 90°	latching	0+1+2		1.30.245.481/xxxx	1.30.245.482/0000
455	2 x 90°	latching	0		1.30.245.451/xxxx	1.30.245.452/0000
455	1 x 90° and 1 x 40°	latching 1 x 90° and momentary 1 x 40°	0+2		-	1.30.245.572/0000
1122E	1 x 40°	momentary	0		1.30.245.055/xxxx	1.30.245.056/0000
1122E	2 x 40°	momentary	0		1.30.245.155/xxxx	1.30.245.156/0000
1122E	1 x 90°, form L	latching	0		1.30.245.255/xxxx	1.30.245.256/0000
1122E	1 x 90°, form V	latching	0		1.30.245.355/xxxx	1.30.245.356/0000
1122E	1 x 90°, form V	latching	0+1		1.30.245.375/xxxx	1.30.245.376/0000
1122E	2 x 90°	latching	0		1.30.245.455/xxxx	1.30.245.456/0000
1122E	2 x 90°	latching	0+1+2		1.30.245.485/xxxx	1.30.245.486/0000

xxxx = Front ring color: 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.

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

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– Table (continued) –  
RAFIX 22 QR - Keylock switch, square collar

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**Accessoires:**

Label holder, square collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm: 5.07.620.011/0000

2

RAFIX  
22 QR

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Mushroom-headed pushbuttons

### Technical Data

#### → General information

Actuator	mushroom
Color of mushroom	see order block
Color of front ring	see order block
Form of collar	see order block

#### → Dimensions

Dimensions of collar	see order block
Overall height	20.1 mm
Mounting depth	56.4 mm
Mounting hole	Ø 22.3 mm
Mounting grid	50 x 30 mm

#### → Mechanical design

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

#### → Mechanical characteristics

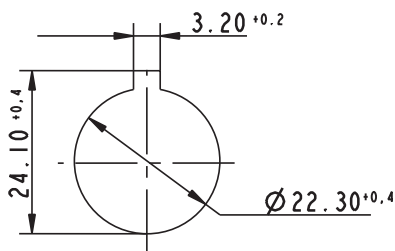
Operating force max.	approx. 5 N for 1 switching element
Robustness max.	100 N

#### → Electrical characteristics

Protection class	-
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#### → Other specifications

Operating life (operations)	1,000,000
Degree of protection from front side	IP65 (DIN EN 60529)
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out to IEC 60947-5-1

### Approvals



UL 508, C22.2 No. 14-M91



2004 Steel Vessel Rules



Rules for the Classification of Steel Ships



Marine, offshore and industrial use



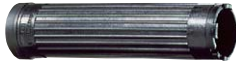
German Lloyd's type approval



### Accessories RAFIX 22 QR - Mushroom-headed pushbutton

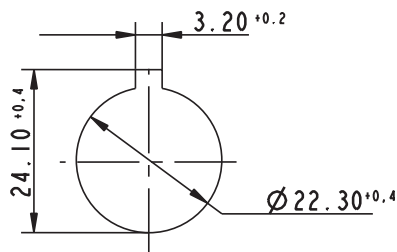
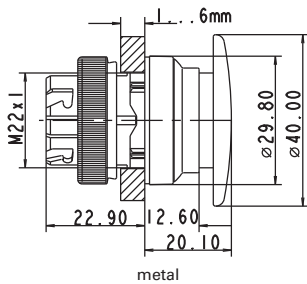
→ Description	Photo	Order no.	Additional accessories see page
RAFIX - Insulating housing IP65, Ø 22.3 mm		-	2 - 79, 2 - 148, 5 - 20
RAFIX 22 QR - Contact blocks with gold contacts		-	2 - 138
RAFIX 22 QR - Contact blocks with silver contacts		-	2 - 135

– Table (continued) –  
Accessories RAFIX 22 QR - Mushroom-headed pushbutton

→ Description	Photo	Order no.	Additional accessories see page
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25

## RAFIX 22 QR Mushroom-headed pushbutton 40 mm, round collar

Technical data see page 2 - 114



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RAFIX  
22 QR

→ Illuminability	Color of mushroom	Color of front ring	Contact function	Order no.
no	opaque red	plastic slate-grey	momentary	1.30.246.501/0307
no	opaque red	metal	momentary	1.30.246.502/0300
no	opaque black	plastic slate-grey	momentary	1.30.246.501/0107
no	opaque black	metal	momentary	1.30.246.502/0100

xx = Front ring color: slate grey = 07

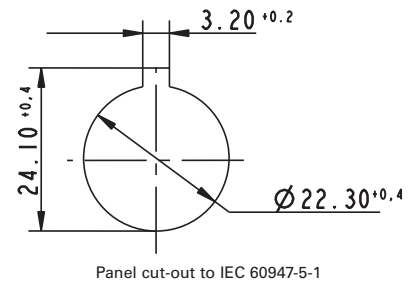
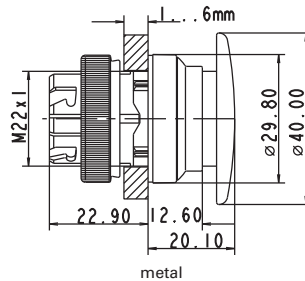
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Mushroom-headed pushbutton 40 mm, illuminated, round collar

Technical data see page 2 - 114



Panel cut-out to IEC 60947-5-1

→ Illuminability	Color of mushroom	Color of front ring	Contact function	Order no.
yes	opaque red/transparent red	plastic slate-grey	momentary	1.30.246.001/0307
yes	opaque red/transparent red	metal	momentary	1.30.246.002/0300

xx = Front ring color: slate grey = 07

### Accessoires:

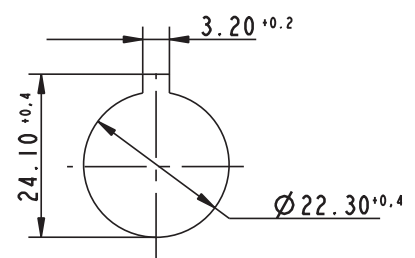
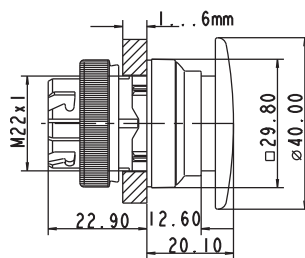
BA 9s base (MBC/MCC), filament lamp, shape A, DIN 49851: see page 5 - 11

Socket BA 9s (MBC/MCC), LED superbright: see page 5 - 8



## RAFIX 22 QR Mushroom-headed pushbutton 40 mm, square collar

Technical data see page 2 - 114



Panel cut-out to IEC 60947-5-1

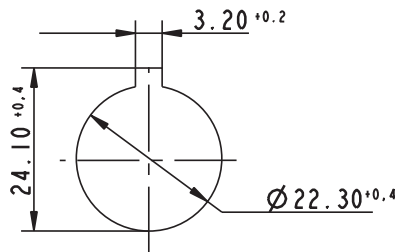
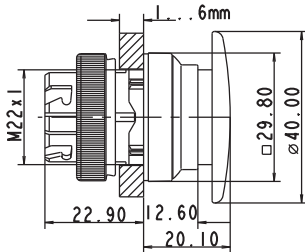
→ Illuminability	Color of mushroom	Color of front ring	Contact function	Order no.
no	opaque red	plastic slate-grey	momentary	1.30.246.551/0307
no	opaque red	plastic slate-grey	momentary	1.30.246.551/0107
no	opaque red	plastic silber	momentary	1.30.246.551/0308
no	opaque red	metal	momentary	1.30.246.552/0300
no	opaque red	metal	momentary	1.30.246.552/0100

xx = Front ring color: slate grey = 07



## RAFIX 22 QR Mushroom-headed pushbutton 40 mm, illuminated, square collar

Technical data see page 2 - 114



Panel cut-out to IEC 60947-5-1



→ Illuminability	Color of mushroom	Color of front ring	Contact function	Order no.
yes	opaque red/transparent red	plastic slate-grey	momentary	1.30.246.051/0307
yes	opaque red/transparent red	plastic silver-gray	momentary	1.30.246.051/0308
yes	opaque red/transparent red	metal	momentary	1.30.246.052/0300

xx = Front ring color: slate grey = 07

### Accessoires:

BA 9s base (MBC/MCC), filament lamp, shape A, DIN 49851: see page 5 - 11  
Socket BA 9s (MBC/MCC), LED superbright: see page 5 - 8

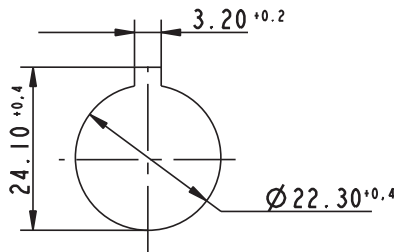
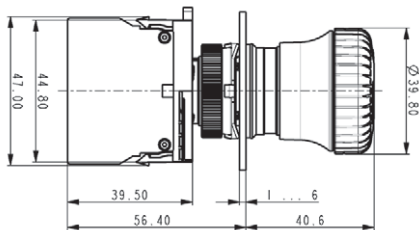
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Emergency stop pushbuttons, dupe-proof to EN ISO 13850

2



Panel cut-out to IEC 60947-5-1

→ The emergency stop pushbuttons comply with IEC 60 947 and VDE 0113 Part 1.

They are designed dupe-proof according to EN ISO 13850 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.

Original operating instructions see Appendix.

### Technical Data

#### → General information

Actuator	mushroom
Color of mushroom	see order block
Form of collar	round

#### → Dimensions

Dimensions of collar	Ø 29.8 mm
Overall height	see order block
Mounting depth with contact block without cable	56.4 mm
Mounting hole	Ø 22.3 mm
Mounting grid	-

#### → Mechanical design

Mounting	ring nut
Contact function	latching
Illuminability	see order block
Reset	see order block
Lock type	see order block

#### → Mechanical characteristics

Entsperr-Kraft	see order block
Operating force max.	approx. 5 N for 1 switching element
Robustness max.	100 N
Robustness	acc. to IEC 60947-5-5

#### → Other specifications

Operating life (operations)	see order block
Degree of protection from front side	see order block
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes

### Approvals



UL 508, C22.2  
No. 14-M91



2004 Steel Vessel  
Rules



Rules for the  
Classification of  
Steel Ships



Marine, offshore  
and industrial  
use



German Lloyd's  
type approval

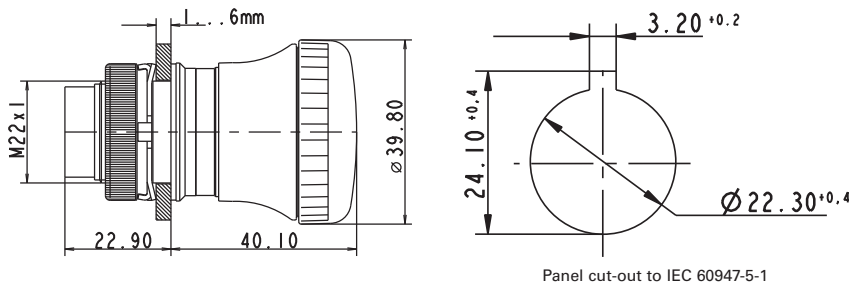


### Accessories RAFIX 22 QR - Emergency stop pushbutton, dupe-proof to EN ISO 13850

→ Description	Photo	Order no.	Additional accessories see page
Emergency stop label, Ø 22.3 mm		-	2 - 82, 2 - 149, 2 - 264, 5 - 21
RAFIX 22 QR - Contact blocks with gold contacts		-	2 - 138
RAFIX 22 QR - Contact blocks with silver contacts		-	2 - 135
RAFIX - Insulating housing, Ø 22.3 mm, IP65, 1-module, yellow/yellow		1.20.810.202/0000	2 - 79, 2 - 148, 5 - 20
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25

## RAFIX 22 QR Emergency stop pushbutton

Technical data see page 2 - 118



→ Degree of protection from front side	Reset	Illuminability	Operating life (operations)	Lock type	Order no.
IP65 (DIN EN 60529)	by clockwise rotation	no	100,000	-	1.30.243.501/0300

Included: Ring nut with claw.

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

For E-stop pushbuttons max. 2 contact block units may be used (eventually with multiple contacts). The middle coupling position may only be used for lamp sockets / LED elements.

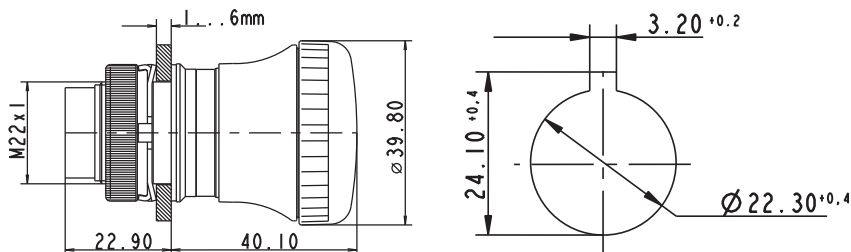
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Emergency stop pushbutton, with indication

Technical data see page 2 - 118



Panel cut-out to IEC 60947-5-1

→ Degree of protection from front side	Reset	Illuminability	Operating life (operations)	Lock type	Order no.
IP65 (DIN EN 60529)	by clockwise rotation	no	100,000	-	1.30.243.601/0300

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.

For E-stop pushbuttons max. 2 contact block units may be used (eventually with multiple contacts). The middle coupling position may only be used for lamp sockets / LED elements.

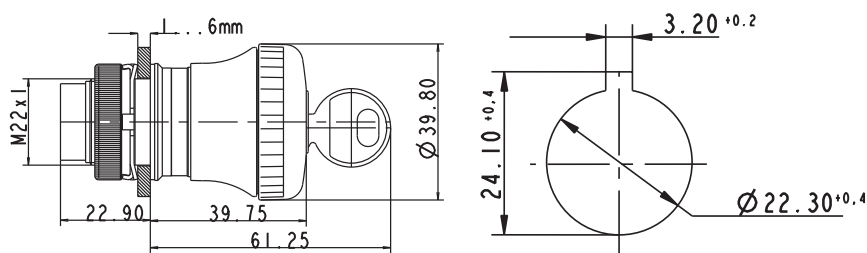
RAFIX  
22 QR

2



## RAFIX 22 QR Emergency stop pushbutton, with keylock

Technical data see page 2 - 118



Panel cut-out to IEC 60947-5-1

→ Degree of protection from front side	Reset	Illuminability	Operating life (operations)	Lock type	Order no.
IP40 (DIN EN 60529)	by clockwise rotation	no	50,000	421	1.30.243.702/0300
IP40 (DIN EN 60529)	by clockwise rotation	no	50,000	455	1.30.243.701/0300
IP40 (DIN EN 60529)	by clockwise rotation	no	50,000	1122E	1.30.243.703/0300

Included: Ring nut with claw, 2 keys.

– Table (continued) –

## RAFIX 22 QR - Emergency stop pushbutton, with keylock

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.

For E-stop pushbuttons max. 2 contact block units may be used (eventually with multiple contacts). The middle coupling position may only be used for lamp sockets / LED elements.

The locking systems we use are created according to DIN EN 1303 by leading lock manufacturers. They are open, mechanical systems that require occasional maintenance of the machinery or plant operator depending on environmental conditions.

### Accessoires:

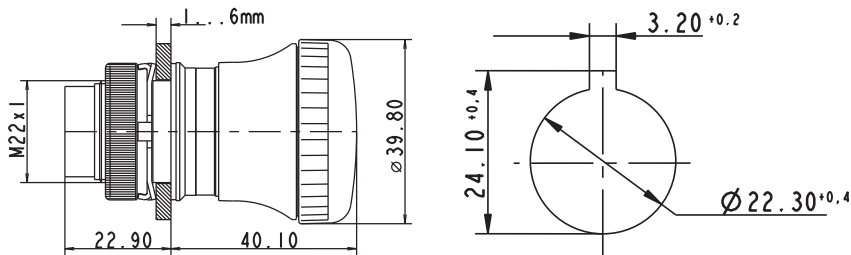
Spare key RONIS 1122E, delivery content 2 keys: 5.58.017.403/0000

Spare key RONIS 421, delivery content 2 keys: 5.58.017.421/0000

Spare key RONIS 455, delivery content 2 keys: 5.58.017.001/0000

## RAFIX 22 QR Emergency stop pushbutton, illuminable

Technical data see page 2 - 118



Panel cut-out to IEC 60947-5-1



2

RAFIX  
22 QR

→ Degree of protection from front side	Reset	Illuminability	Operating life (operations)	Lock type	Order no.
IP65 (DIN EN 60529)	by clockwise rotation	yes	100,000	-	1.30.243.001/0300

Included: Ring nut with claw.

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

For E-stop pushbuttons max. 2 contact block units may be used (eventually with multiple contacts). The middle coupling position may only be used for lamp sockets / LED elements.

### Accessoires:

BA 9s base (MBC/MCC), filament lamp, shape A, DIN 49851: see page 5 - 11

Socket BA 9s (MBC/MCC), LED superbright: see page 5 - 8

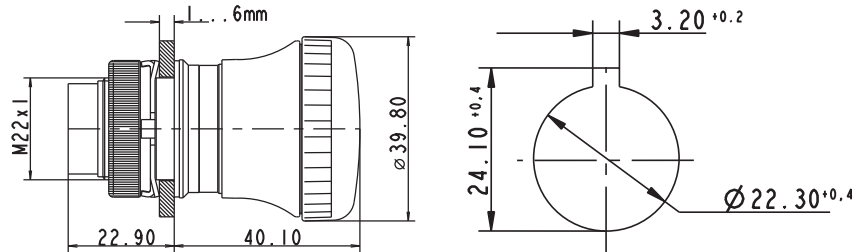
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Emergency stop pushbutton, reset by pulling

Technical data see page 2 - 118



Panel cut-out to IEC 60947-5-1

→ Degree of protection from front side	Reset	Illuminability	Operating life (operations)	Lock type	Order no.
IP65 (DIN EN 60529)	by pulling	no	100,000	-	1.30.243.901/0300

Included: Ring nut with claw.

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

For E-stop pushbuttons max. 2 contact block units may be used (eventually with multiple contacts). The middle coupling position may only be used for lamp sockets / LED elements.

2

RAFIX  
22 QR

## RAFIX 22 QR Toggle switches

### Technical Data

#### → General information

Actuator	toggle
Color of toggle	opaque white
Color of front ring	see order block
Form of collar	see order block

#### → Dimensions

Dimensions of collar	see order block
Overall height	22.2 mm
Mounting depth	56.4 mm
Mounting hole	Ø 22.3 mm
Mounting grid	50 x 30 mm

#### → Mechanical design

Mounting	ring nut
Contact function	latching
Illuminability	no

#### → Mechanical characteristics

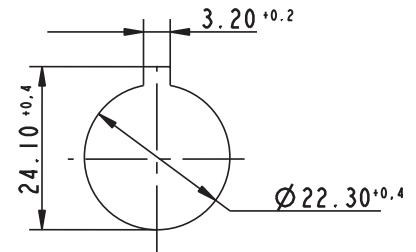
Robustness max.	100 N
-----------------	-------

#### → Electrical characteristics

Protection class	-
------------------	---

#### → Other specifications

Operating life (operations)	100,000
Degree of protection	IP54 (DIN EN 60529)
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out to IEC 60947-5-1

2

RAFIX  
22 QR

### Approvals



UL 508, C22.2 No. 14-M91



2004 Steel Vessel Rules



Rules for the Classification of Steel Ships



Marine, offshore and industrial use



German Lloyds type approval



### Accessories RAFIX 22 QR - Toggle switch

→ Description	Photo	Order no.	Additional accessories see 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 - 140
RAFIX 22 QR - Contact block with gold contacts, with coupling, without lamp socket, spring-type terminals, 1 NO		1.20.125.102/0000	2 - 140
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25

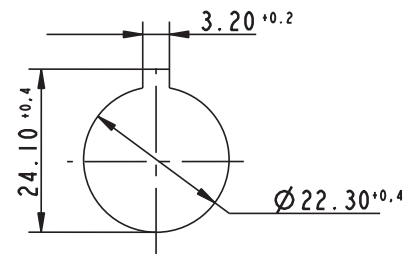
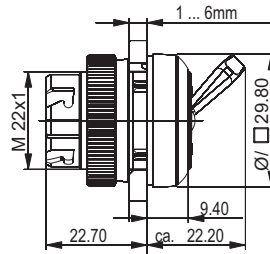
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Toggle switch, round collar

Technical data see page 2 - 123



Panel cut-out to IEC 60947-5-1

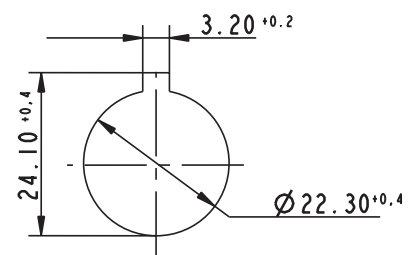
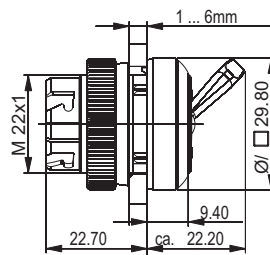
→ Illuminability	Color of toggle	Color of front ring	Contact function	Order no.
no	opaque white	plastic black	latching	1.30.247.501/0201
no	opaque white	plastic slate-grey	latching	1.30.247.501/0207
no	opaque white	plastic silver-grey	latching	1.30.247.501/0208
no	opaque white	metal	latching	1.30.247.502/0200

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



## RAFIX 22 QR Toggle switch, square collar

Technical data see page 2 - 123



Panel cut-out to IEC 60947-5-1

→ Illuminability	Color of toggle	Color of front ring	Contact function	Order no.
no	opaque white	plastic black	latching	1.30.247.551/0201
no	opaque white	plastic slate-grey	latching	1.30.247.551/0207
no	opaque white	plastic silver-grey	latching	1.30.247.551/0208
no	opaque white	metal	latching	1.30.247.552/0200

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

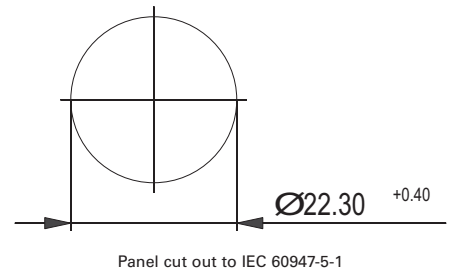
2

RAFIX  
22 QR



## RAFIX 22 QR Twin pushbuttons

- 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
Color of lens	opaque green/opaque red
Color of front ring	see order block
Form of collar	see order block

#### → Dimensions

Dimensions of collar	59.6 x 29.8 mm
Overall height	9.1 mm
Mounting depth with contact block without cable	56.4 mm
Mounting hole	Ø 22.3 mm
Mounting grid	-

#### → Mechanical design

Mounting	ring nut
Contact function	momentary
Illuminability	see order block

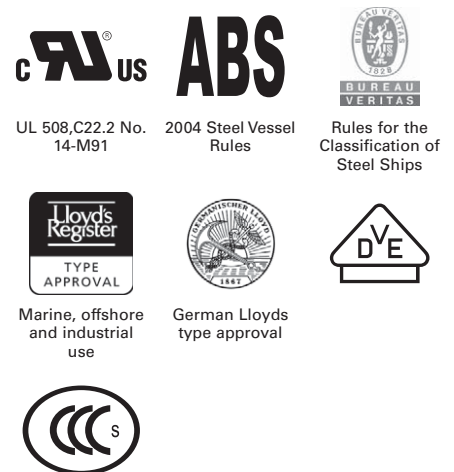
#### → Mechanical characteristics

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

#### → Other specifications

Degree of protection from front side	IP65 (DIN EN 60529)
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes

### Approvals



### Accessories RAFIX 22 QR - Twin pushbutton

→ Description	Photo	Order no.	Additional accessories see 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	-
RAFIX 22 QR - Contact block with gold contacts, with coupling and lamp socket, spring-type terminals, 1 NO, 1 NC		1.20.125.125/0000	-

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

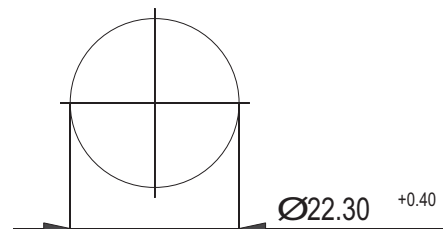
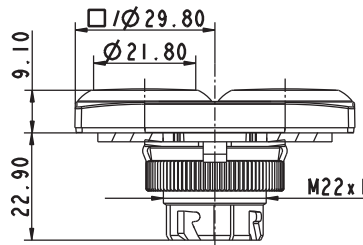
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Twin pushbutton, oval collar

Technical data see page 2 - 125



Panel cut out to IEC 60947-5-1

2

→ Illuminability	Color of lens	Legending	Color of front ring	Order no.
yes	opaque green/opaque red	none	slate-grey	1.30.241.001/2207
yes	opaque green/opaque red	red 0, green I	slate-grey	1.30.241.002/2207

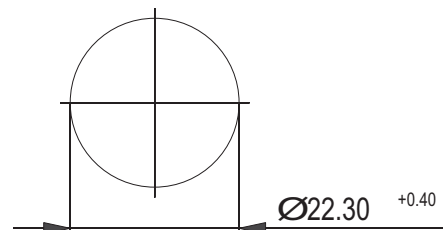
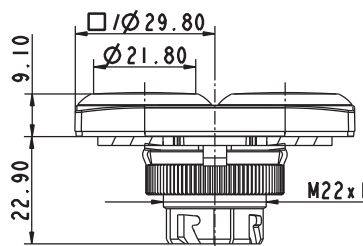
Either the left-hand or right-hand contact block is actuated, depending on the button pressed. For illuminated versions the centre position of the coupling is reserved for the lamp socket. A third contact block arranged in the centre would be actuated by either button.

RAFIX  
22 QR



## RAFIX 22 QR Twin pushbutton, rectangular collar

Technical data see page 2 - 125



Panel cut out to IEC 60947-5-1

→ Illuminability	Color of lens	Legending	Color of front ring	Order no.
yes	opaque green/opaque red	none	slate-grey	1.30.241.051/2207
yes	opaque green/opaque red	red 0, green I	slate-grey	1.30.241.052/2207

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 drives



### Technical Data

→ **General information**

Actuator	knob
Color of knob	see order block
Front ring	see order block
Form of collar	see order block

→ **Dimensions**

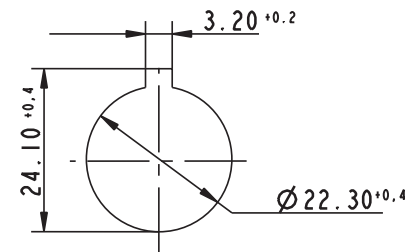
Dimensions of collar	see order block
Overall height	26.2 mm
Mounting depth	according to potentiometer
Mounting hole	Ø 22.3 mm
Mounting grid	50 x 30 mm

→ **Mechanical design**

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

→ **Other specifications**

Degree of protection from front side	IP65 (DIN EN 60529)
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out to IEC 60947-5-1

2

RAFIX 22 QR

### Approvals



2004 Steel Vessel Rules



Rules for the Classification of Steel Ships



Marine, offshore and industrial use



German Lloyd's type approval

### Accessories RAFIX 22 QR - Potentiometer drive

→ **Description**

Description	Photo	Order no.	Additional accessories see page
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25

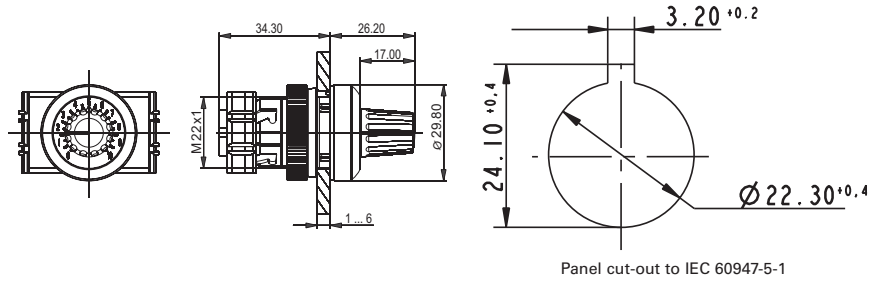
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Potentiometer drive, round collar

Technical data see page 2 - 127



→ Front ring	Color of knob	Order no.
plastic slate-grey	opaque slate-grey	1.30.248.001/0700

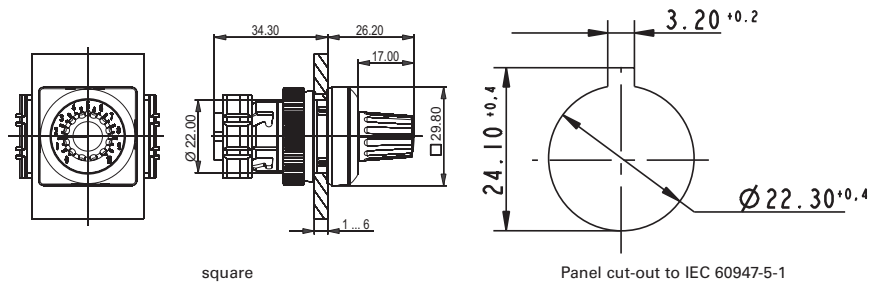
For potentiometers with 6 mm shaft diameter and 50 mm shaft length. Potentiometer not included.

RAFIX  
22 QR



## RAFIX 22 QR Potentiometer drive, square collar

Technical data see page 2 - 127



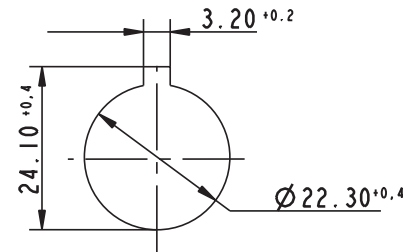
→ Front ring	Color of knob	Order no.
plastic slate-grey	opaque slate-grey	1.30.248.021/0700

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

## RAFIX 22 QR Buzzers

### Technical Data

<b>→ General information</b>	
Form of lens	flat lens
Color of lens	opaque slate-grey
Form of collar	see order block
Sound	see order block
<b>→ Dimensions</b>	
Dimensions of collar	see order block
Overall height	9.8 mm
Mounting depth	56.4 mm
Mounting hole	Ø 22.3 mm
Mounting grid	50 x 30 mm
<b>→ Mechanical design</b>	
Mounting	ring nut
<b>→ Electrical characteristics</b>	
Operating voltage DC	see order block
Input current	see order block
<b>→ Acoustic characteristics</b>	
Sonic pressure, 1 m distance min.	see order block
Sound frequency	see order block
<b>→ Other specifications</b>	
Degree of protection from front side	IP65 (DIN EN 60529)
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out to IEC 60947-5-1

### Approvals



2004 Steel Vessel Rules



Rules for the Classification of Steel Ships



Marine, offshore and industrial use



German Lloyd's type approval

### Accessories RAFIX 22 QR - Buzzer

Description	Photo	Order no.	Additional accessories see page
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25

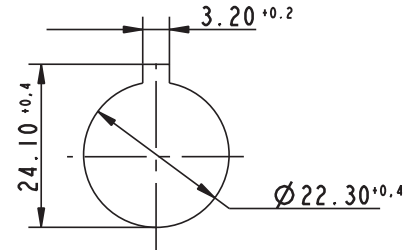
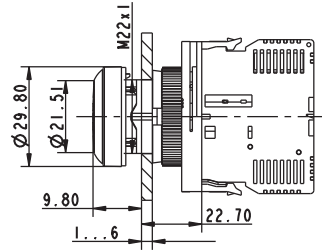
# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS



## RAFIX 22 QR Buzzer, round collar

Technical data see page 2 - 129



Panel cut-out to IEC 60947-5-1

2

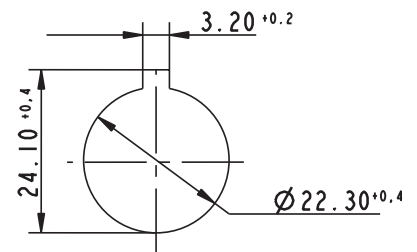
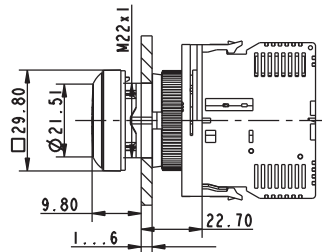
→ Operating voltage DC	Input current	Sound	Sonic pressure, 1 m distance min.	Sound frequency	Order no.
12 V	25 mA	continuos beep	70 dB	2400 - 3100 Hz	1.30.249.002/0000
24 V	25 mA	continuos beep	70 dB	2400 - 3100 Hz	1.30.249.001/0000

RAFIX  
22 QR



## RAFIX 22 QR Buzzer, square collar

Technical data see page 2 - 129



Panel cut-out to IEC 60947-5-1

→ Operating voltage DC	Input current	Sound	Sonic pressure, 1 m distance min.	Sound frequency	Order no.
12 V	25 mA	continuos beep	70 dB	2400 - 3100 Hz	1.30.249.022/0000
24 V	25 mA	continuos beep	70 dB	2400 - 3100 Hz	1.30.249.021/0000

## RAFIX 22 QR Signal indicators

### Technical Data

#### → General information

Form of lens	see order block
Color of lens	see order block
Legend insert accommodation	see order block
Form of collar	see order block

#### → Dimensions

Dimensions of collar	see order block
Overall height	see order block
Mounting depth	56.4 mm
Mounting hole	Ø 22.3 mm
Mounting grid	50 x 30 mm

#### → Mechanical design

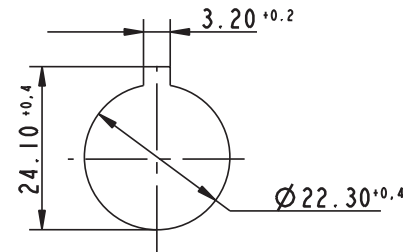
Mounting	ring nut
Illuminability	yes

#### → Electrical characteristics

Protection class	-
------------------	---

#### → Other specifications

Degree of protection from front side	IP65 (DIN EN 60529)
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out to IEC 60947-5-1

2

RAFIX  
22 QR

### Approvals



UL 508, C22.2 No. 14-M91



2004 Steel Vessel Rules



Rules for the Classification of Steel Ships



Marine, offshore and industrial use



German Lloyds type approval





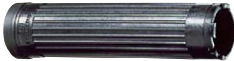
### Accessories RAFIX 22 QR - Signal indicator

→ Description	Photo	Order no.	Additional accessories see page
BA 9s base (MBC/MCC), filament lamps, shape A, DIN 49851		-	5 - 11
RAFIX - Insulating housing IP65, Ø 22.3 mm		-	2 - 79, 2 - 148, 5 - 20
RAFIX 22 QR - Lamp sockets BA 9s (MBC/MCC)		-	2 - 141

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

– Table (continued) –  
Accessories RAFIX 22 QR - Signal indicator

→ Description	Photo	Order no.	Additional accessories see page
RAFIX 22 QR - LED unit		-	2 - 143
Socket BA 9s (MBC/MCC), LED superbright		-	5 - 8
Fixing spanner for ring nut		5.05.800.062/0000	2 - 145, 2 - 261, 5 - 25

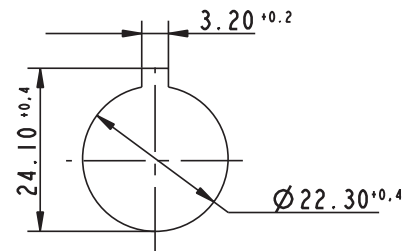
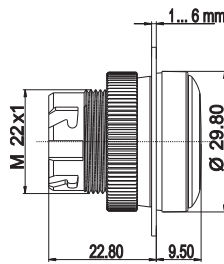
2

RAFIX  
22 QR



## RAFIX 22 QR Signal indicator, flat, round collar, for legend inserts

Technical data see page 2 - 131



Panel cut-out to IEC 60947-5-1

→ Color of lens	Form of collar	Order no.
transparent red	round	1.74.505.501/1300
transparent yellow	round	1.74.505.501/1400
transparent green	round	1.74.505.501/1500
transparent blue	round	1.74.505.501/1600
transparent colorless	round	1.74.505.501/1000

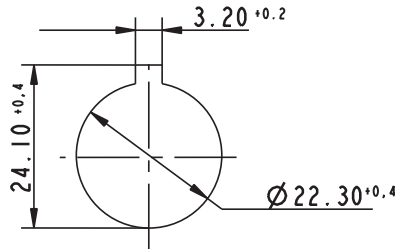
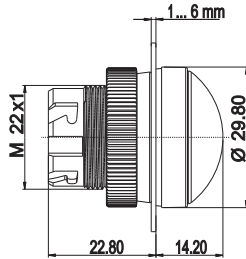
**Accessoires:**

Legend insert without legend, use only in combination with transparent lenses.: 5.70.803.000/2000



## RAFIX 22 QR Signal indicator, high, round collar

Technical data see page 2 - 131



Panel cut-out to IEC 60947-5-1



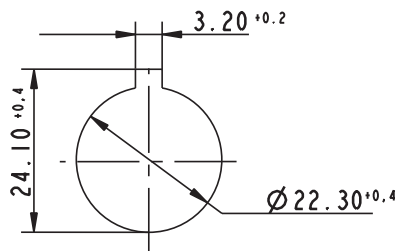
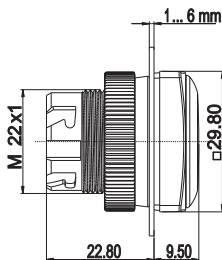
→ Color of lens	Form of collar	Order no.
transparent red	round	1.74.505.511/1300
transparent yellow	round	1.74.505.511/1400
transparent green	round	1.74.505.511/1500
transparent blue	round	1.74.505.511/1600
transparent colorless	round	1.74.505.511/1000

2

RAFIX  
22 QR

## RAFIX 22 QR Signal indicator, flat, square collar, for legend inserts

Technical data see page 2 - 131



Panel cut-out to IEC 60947-5-1



→ Color of lens	Form of collar	Order no.
transparent red	square	1.74.505.551/1300
transparent yellow	square	1.74.505.551/1400
transparent green	square	1.74.505.551/1500
transparent blue	square	1.74.505.551/1600
transparent colorless	square	1.74.505.551/1000

# CONTROL COMPONENTS

RAFIX 22 QR - ACTUATORS AND INDICATORS

– Table (continued) –

RAFIX 22 QR - Signal indicator, flat, square collar, for legend inserts

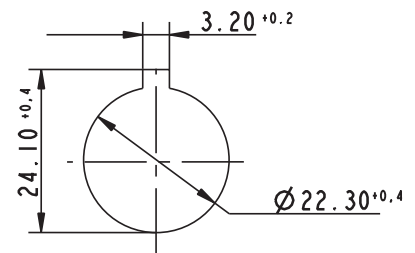
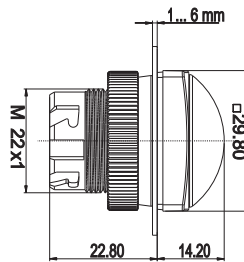
**Accessoires:**

Legend insert without legend, use only in combination with transparent lenses.: 5.70.803.000/2000



## RAFIX 22 QR Signal indicator, high, square collar

Technical data see page 2 - 131



Panel cut-out to IEC 60947-5-1

→ Color of lens	Form of collar	Order no.
transparent red	square	1.74.505.561/1300
transparent yellow	square	1.74.505.561/1400
transparent green	square	1.74.505.561/1500
transparent blue	square	1.74.505.561/1000
transparent blue	square	1.74.505.561/1600

2

RAFIX  
22 QR

## RAFIX 22 QR Contact blocks with silver contacts

→ Most of the values specified apply to all terminal versions.

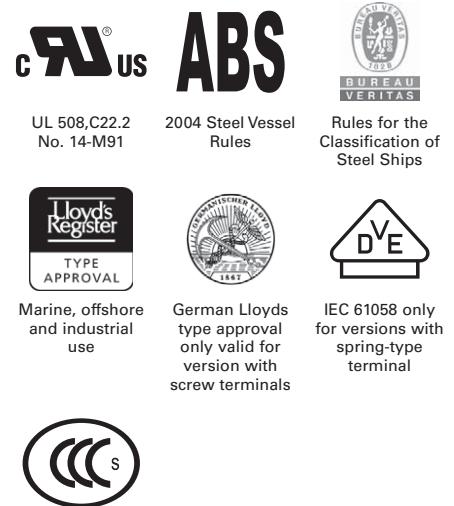
Any deviating values specific to the cage clamp or quick-connect version are given in parentheses ( ).

### Technical Data

<b>→ Dimensions</b>	
Dimensions with coupling	39.5 x 49.9 x 30 mm
Mounting depth without cable	56.4 mm
<b>→ Mechanical design</b>	
Mounting	snap on coupling and actuator
Contact system	bridge-contact self cleaning
Contact materials	Ag
Contact arrangement	see order block
Coupling position 1 (1/2)	see order block
Coupling position 3 (5/6), centre	see order block
Coupling position 2 (3/4)	see order block
NC contact forcibly actuated acc. to IEC 60947-5-1	yes
Terminals	see order block
Terminal marking	color encoded
Robustness	100 N
Wire range solid wires without wire end sleeves	2 x 0.75 ... 2.5 mm <sup>2</sup>
Wire range stranded wires without end sleeves	2 x 1.0...1.5 (2 x 0.08 ... 2.5) mm <sup>2</sup>
Stripping length, solid or stranded	8 mm
Wire range with wire end sleeves	2 x 0.75 ... 1.5 mm <sup>2</sup>
<b>→ Electric characteristics acc. to IEC 60947</b>	
Rated insulation voltage AC/DC	400 V
Rated peak voltage	6,000 V
Rated operating current I <sub>e</sub> AC 12 / DC 12	10 A
Rated operating current I <sub>e</sub> AC-15	125 V/10 A, 250 V/6 A, 400 V/3.5 A
Rated operating current I <sub>e</sub> DC-13 Q300	24V/2.75A, 60V/1.1A, 125V/0.55A, 250V/0.275A
Degree of pollution	3
Positive opening travel	3 mm
Operating speed	5 ... 1000 mm/c
<b>→ Electric characteristics acc. to IEC 61058</b>	
Resistive load AC	10 A / 250 V; 7.5 A / 400 V
Motor load AC	6 A / 250 V; 4 A / 400 V (5 A / 250 V)
Peak input current filament lamp AC	36 A
Peak capacity input current AC	100 A
Protection class	II
<b>→ Other specifications</b>	
Operating life at 10 A/250 V AC	70,000 (10A), 200,000 (5A)
Switching reliability at 24V/5mA DC	10 x 10 <sup>-6</sup>
Robustness	acc. to IEC 60947-5-5
Corresponding to CE	acc. EU-guideline NSR 72/73
Shock resistance acc. to IEC 60068-2-27	15 g at 11 ms, amplitude half sinusoidal
Resistance to vibrations acc. to IEC 60068-2-6	5 g at 10 ... 500 Hz
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70°C (+50°C)
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C



### Approvals



# CONTROL COMPONENTS


RAFIX 22 QR - CONTACT BLOCKS AND INDICATORS

## - Technical data (continued) -

### RAFIX 22 QR - Contact blocks with silver contacts

Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes

## Accessories RAFIX 22 QR - Contact blocks with silver contacts

→ Description	Photo	Order no.	Additional accessories see page
RAFIX 22 QR - Lamp socket BA 9s, without coupling		-	2 - 142
RAFIX 22 QR - LED unit		-	2 - 143
Socket BA 9s (MBC/MCC), LED superbright		-	5 - 8



## RAFIX 22 QR Contact block with silver contacts

Technical data see page 2 - 135



Silver contacts, 1 NC, spring-type terminals



Silver contacts, 1 NO, quick connector

→ Contact arrangement	Terminals	Coupling position 1 (1/2)	Coupling position 3 (5/6), centre	Coupling position 2 (3/4)	Order no.
1 NO	screw terminals	-	-	-	5.00.100.140/0000
1 NO	spring type	-	-	-	5.00.100.145/0000
1 NO	solder/quick connector 6.3 x 0.8 mm	-	-	-	5.00.100.196/0000
1 NC	screw terminals	-	-	-	5.00.100.139/0000
1 NC	spring type	-	-	-	5.00.100.144/0000
1 NC	solder/quick connector 6.3 x 0.8 mm	-	-	-	5.00.100.194/0000
2 NO	screw terminals	-	-	-	5.00.100.142/0000
2 NC	screw terminals	-	-	-	5.00.100.141/0000
1 NO, 1 NC	screw terminals	-	-	-	5.00.100.143/0000

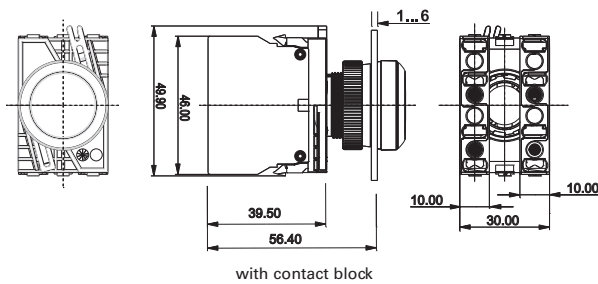
– Table (continued) –  
**RAFIX 22 QR - Contact block with silver contacts**

**Accessoires:**

Coupling: see page 2 - 146

## RAFIX 22 QR Contact block assembly, with coupling, silver contacts

Technical data see page 2 - 135



→ Contact arrangement	Terminals	Coupling position 1 (1/2)	Coupling position 3 (5/6), centre	Coupling position 2 (3/4)	Order no.
1 NO	screw terminals	1 NO	-	-	1.20.124.002/0000
1 NO	spring type	1 NO	-	-	1.20.125.002/0000
1 NC	screw terminals	-	-	1 NC	1.20.124.001/0000
1 NC	spring type	-	-	1 NC	1.20.125.001/0000
2 NO	screw terminals	2 NO	-	-	1.20.124.020/0000
1 NO, 1 NO	screw terminals	1 NO	-	1 NO	1.20.124.004/0000
1 NO, 1 NO	spring type	1 NO	-	1 NO	1.20.125.004/0000
2 NC	screw terminals	-	-	2 NC	1.20.124.019/0000
1 NC, 1 NC	screw terminals	1 NC	-	1 NC	1.20.124.003/0000
1 NC, 1 NC	spring type	1 NC	-	1 NC	1.20.125.003/0000
1 NC + 1 NO	screw terminals	1 NC + 1 NO	-	-	1.20.124.017/0000
1 NO, 1 NC	screw terminals	1 NO	-	1 NC	1.20.124.005/0000
1 NO, 1 NC	spring type	1 NO	-	1 NC	1.20.125.005/0000
1 NC + 1 NO, 1 NC + 1 NO	screw terminals	1 NC + 1 NO	-	1 NC + 1 NO	1.20.124.018/0000

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

The centre coupling position 3 (5/6) is provided for the LED element resp. the lamp socket element.



# RAFIX 22 QR Contact blocks with gold contacts

→ 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

#### → Dimensions

Dimensions with coupling	39.5 x 49.9 x 30 mm
Mounting depth without cable	56.4 mm

#### → Mechanical design

Mounting	snap on coupling and actuator
Contact system	bridge-contact self cleaning
Contact materials	Au
Contact arrangement	see order block
Coupling position 1 (1/2)	see order block
Coupling position 3 (5/6), centre	see order block
Coupling position 2 (3/4)	see order block
NC contact forcibly actuated acc. to IEC 60947-5-1	yes
Terminals	see order block
Terminal marking	color encoded
Robustness	100 N
Operating force	-
Wire range solid wires without wire end sleeves	2 x 0.75 ... 2.5 mm <sup>2</sup>
Wire range stranded wires without wire end sleeves	2 x 1.0 ... 1.5 mm <sup>2</sup>
Stripping length, solid or stranded	8 mm
Wire range with wire end sleeves	2 x 0.75 ... 1.5 mm <sup>2</sup>

#### → Electrical characteristics

Operating voltage AC/DC	1 ... 35 V
Operating current AC/DC	0.01 ... 100 mA
Rated power max.	1 W (ohmic load)

#### → Other specifications

Operating life (operations)	1,000,000 (24 V DC 10 mA)
Switching reliability at 24V/5mA DC	10 x 10 <sup>-6</sup>
Robustness	acc. to IEC 60947-5-5
Corresponding to CE	acc. EU-guideline NSR 72/73
Shock resistance acc. to IEC 60068-2-27	15 g at 11 ms, amplitude half sinusoidal
Resistance to vibrations acc. to IEC 60068-2-6	5 g at 10 ... 500 Hz
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes

# CONTROL COMPONENTS

RAFIX 22 QR - CONTACT BLOCKS AND INDICATORS

## Accessories RAFIX 22 QR - Contact blocks with gold contacts

→ Description	Photo	Order no.	Additional accessories see page
BA 9s base (MBC/MCC), filament lamps, shape A, DIN 49851		-	5 - 11
RAFIX 22 QR - Lamp socket BA 9s, without coupling		-	2 - 142
RAFIX 22 QR - LED unit		-	2 - 143
Socket BA 9s (MBC/MCC), LED superbright		-	5 - 8

## RAFIX 22 QR Contact block with gold contacts

Technical data see page 2 - 138



Gold contacts, 1 NO, spring-type terminals



Gold contacts, 1 NO, quick connector



→ Contact arrangement	Terminals	Coupling position 1 (1/2)	Coupling position 3 (5/6), centre	Coupling position 2 (3/4)	Order no.
1 NO	screw terminals	-	-	-	5.00.100.165/0000
1 NO	spring type	-	-	-	5.00.100.160/0000
1 NO	solder/quick connector 6.3 x 0.8 mm	-	-	-	5.00.100.195/0000
1 NC	screw terminals	-	-	-	5.00.100.164/0000
1 NC	spring type	-	-	-	5.00.100.159/0000
1 NC	solder/quick connector 6.3 x 0.8 mm	-	-	-	5.00.100.193/0000
2 NO	screw terminals	-	-	-	5.00.100.162/0000
2 NC	screw terminals	-	-	-	5.00.100.161/0000
1 NC + 1 NO	screw terminals	-	-	-	5.00.100.163/0000

### Accessoires:

Coupling: see page 2 - 146

2

RAFIX  
22 QR

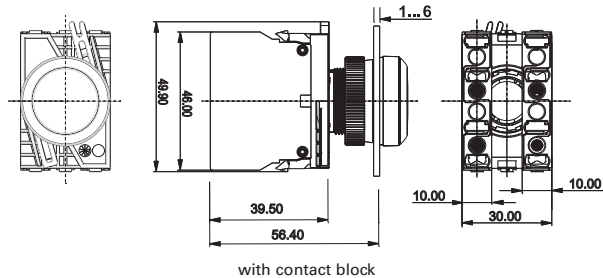
# CONTROL COMPONENTS

RAFIX 22 QR - CONTACT BLOCKS AND INDICATORS



## RAFIX 22 QR Contact block assembly, with coupling, gold contacts

Technical data see page 2 - 138



2

RAFIX  
22 QR

→ Contact arrangement	Terminals	Coupling position 1 (1/2)	Coupling position 3 (5/6), centre	Coupling position 2 (3/4)	Order no.
1 NO	screw terminals	1 NO	-	-	1.20.124.102/0000
1 NO	spring type	1 NO	-	-	1.20.125.102/0000
1 NC	screw terminals	-	-	1 NC	1.20.124.101/0000
1 NC	spring type	-	-	1 NC	1.20.125.101/0000
2 NO	screw terminals	2 NO	-	-	1.20.124.120/0000
1 NO, 1 NO	screw terminals	1 NO	-	1 NO	1.20.124.104/0000
1 NO, 1 NO	spring type	1 NO	-	1 NO	1.20.125.104/0000
2 NC	screw terminals	-	-	2 NC	1.20.124.119/0000
1 NC, 1 NC	screw terminals	1 NC	-	1 NC	1.20.124.103/0000
1 NC, 1 NC	spring type	1 NC	-	1 NC	1.20.125.103/0000
1 NC + 1 NO	screw terminals	1 NC + 1 NO	-	-	1.20.124.117/0000
1 NO, 1 NC	screw terminals	1 NO	-	1 NC	1.20.124.105/0000
1 NO, 1 NC	spring type	1 NO	-	1 NC	1.20.125.105/0000
1 NC + 1 NO, 1 NC + 1 NO	screw terminals	1 NC + 1 NO	-	1 NC + 1 NO	1.20.124.118/0000

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

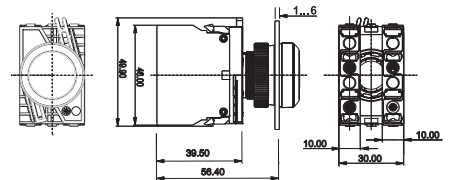
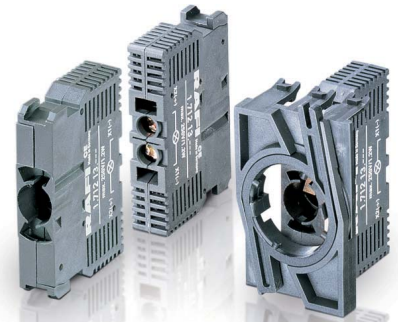
The centre coupling position 3 (5/6) is provided for the LED element resp. the lamp socket element.



## RAFIX 22 QR Lamp sockets BA 9s (MBC/MCC)

### Technical Data

<b>→ Dimensions</b>	
Dimensions with coupling	39.5 x 49.9 x 30 mm
Mounting depth without cable	56.4 mm
<b>→ Mechanical design</b>	
Mounting	snap on coupling and actuator
Diode and resistor	see order block
Terminals	see order block
Terminal marking	X1 = anode, X2 = cathode
<b>→ Lamp characteristics</b>	
Lamp socket	BA 9 s
Operating voltage AC/DC	see order block
Lamp power max.	2 W
Lamp voltage	see order block
<b>→ Other specifications</b>	
Approvals	see order block
Robustness	acc. to IEC 60947-5-5
Shock resistance acc. to IEC 60068-2-27	50 g at 11 ms, amplitude half sinusoidal
Resistance to vibrations acc. to IEC 60068-2-6	10 g at 40 ... 500 Hz
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
Ambient temp. operating max.	+70 °C
Ambient temp. operating min.	-25 °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
ROHS compliant	yes
REACH compliant	yes



with contact block

### Approvals



UL 508, C22.2 No. 14-M91



2004 Steel Vessel Rules



Rules for the Classification of Steel Ships



Marine, offshore and industrial use



Type approval only valid for version with screw terminals



### Accessories RAFIX 22 QR - Lamp sockets BA 9s (MBC/MCC)

→ Description	Photo	Order no.	Additional accessories see page
BA 9s base (MBC/MCC), filament lamps, shape A, DIN 49851		-	5 - 11
Socket BA 9s (MBC/MCC), LED superbright		-	5 - 8

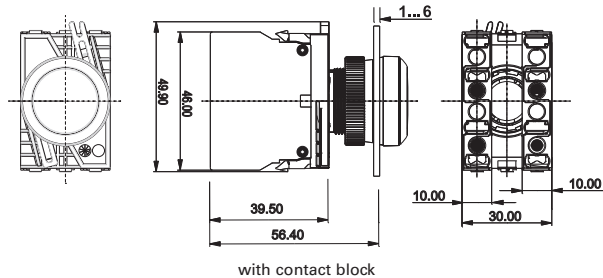
# CONTROL COMPONENTS

RAFIX 22 QR - CONTACT BLOCKS AND INDICATORS



## RAFIX 22 QR Lamp socket BA 9s, without coupling

Technical data see page 2 - 141

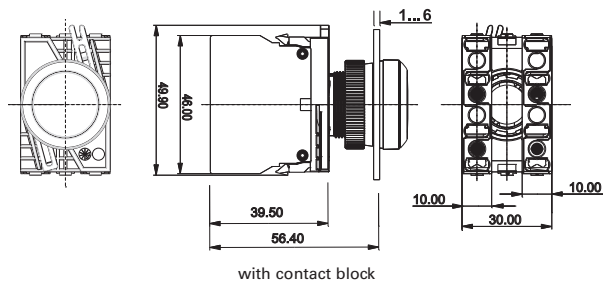


→ Terminals	Operating voltage AC/DC	Lamp voltage	Diode and resistor	Order no.
spring type	6 ... 250 V	6 ... 250 V	no	5.00.070.078/0000
solder/quick connector 6.3 x 0.8 mm	6 ... 250 V	6 ... 250 V	no	5.00.070.087/0000
screw terminals	250 V	130 V	yes	5.00.070.080/0000



## RAFIX 22 QR Lamp socket BA 9s, assembly with coupling

Technical data see page 2 - 141



→ Terminals	Operating voltage AC/DC	Lamp voltage	Diode and resistor	Order no.
screw terminals	6 ... 250 V	6 ... 250 V	no	1.71.213.001/0000
spring type	6 ... 250 V	6 ... 250 V	no	1.71.214.001/0000
screw terminals	with diode and series resistor 250 V	130 V	yes	1.71.213.004/0000

The lamp socket is mounted in the middle coupling position 3 (5/6).

2

RAFIX  
22 QR

## RAFIX 22 QR LED units

### Technical Data

<b>→ Dimensions</b>	
Dimensions without coupling	46 x 10 x 39,5 mm
Mounting depth without cable	56,4 mm
<b>→ Mechanical design</b>	
Mounting	snap on coupling and actuator
Diode and resistor	see order block
LED color	see order block
Terminals	screw terminals
Terminal marking	X1 = anode, X2 = cathode
<b>→ Lamp characteristics</b>	
Operating voltage	see order block
Max. current, I <sub>F</sub>	see order block
<b>→ Other specifications</b>	
Robustness	acc. to IEC 60947-5-1
Shock resistance acc. to IEC 60068-2-27	50 g at 11 ms, amplitude half sinusoidal
Resistance to vibrations acc. to IEC 60068-2-6	10 g at 40 ... 500 Hz
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
Ambient temp. operating max.	+65 °C
Ambient temp. operating min.	-20 °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
ROHS compliant	yes
REACH compliant	yes



### Approvals



2004 Steel Vessel Rules



Rules for the Classification of Steel Ships




Marine, offshore and industrial use



German Lloyd's type approval

### Accessories RAFIX 22 QR - LED unit

Description	Photo	Order no.	Additional accessories see page
Coupling		-	2 - 146

# CONTROL COMPONENTS

RAFIX 22 QR - CONTACT BLOCKS AND INDICATORS



## RAFIX 22 QR LED unit, without coupling

Technical data see page 2 - 143

2

RAFIX  
22 QR

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

## RAFIX 22 QR Special accessories



2

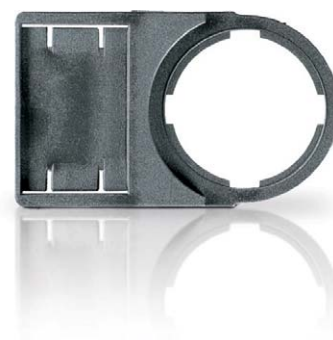
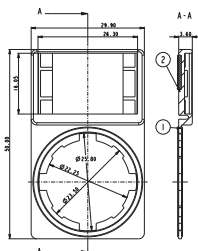
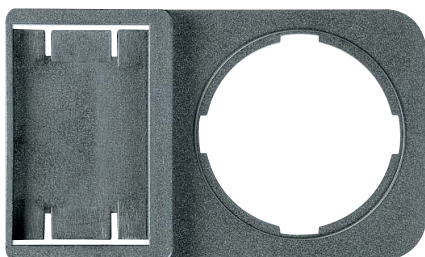
### Fixing spanner for ring nut and front ring



RAFIX  
22 QR

→ Description	Fitting for	Order no.
Fixing spanner for ring nut	RAFIX 22 QR/FS	5.05.800.062/0000

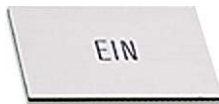
### Label holder



→ Description	Dimensions	Order no.
Label holder, round collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm	50 x 30 x 3,6 mm	5.07.620.010/0000
Label holder, square collar, with adhesive tape and release liner on back 50 x 30 x 3.6 mm	50 x 30 x 3,6 mm	5.07.620.011/0000

# CONTROL COMPONENTS

RAFIX 22 QR - SPECIAL ACCESSORIES



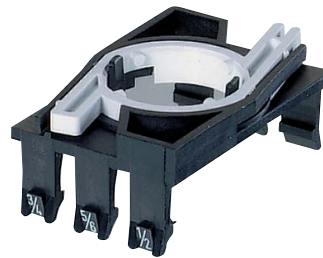
## Legend label to clip into label holder 5.07.620.xxx

→ Dimensions	Label	Order no.
28 x 16 x 0,9 mm	-	5.73.110.000/0000
28 x 16 x 0,9 mm	EIN	5.73.110.004/0000
28 x 16 x 0,9 mm	AUS	5.73.110.005/0000
28 x 16 x 0,9 mm	HAND 0 AUTO	5.73.110.021/0000
28 x 16 x 0,9 mm	AUTO HAND	5.73.110.022/0000
28 x 16 x 0,9 mm	HAND 0 AUTO	5.73.110.023/0000
28 x 16 x 0,9 mm	0 I	5.73.110.026/0000
28 x 16 x 0,9 mm	I 0 II	5.73.110.027/0000
28 x 16 x 0,9 mm	EIN AUS	5.73.110.028/0000
28 x 16 x 0,9 mm	AUS EIN	5.73.110.029/0000

Legending available on request.



## Coupling

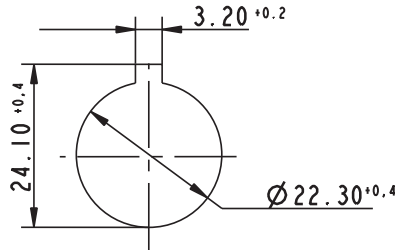


→ Description	Order no.
Coupling with reference numbers 1-3-2, for contact blocks with single contacts	5.05.510.935/0000
Coupling with reference numbers 1/2-5/6-3/4, for contact blocks with double contacts	5.05.510.936/0000

## RAFIX 22 QR Blanking cap, Ø 22.3 mm



round blanking cap



Panel cut-out to IEC 60947-5-1



→ Description	Order no.
Blanking cap IP65, ring nut, square, slate grey	5.05.800.065/0000
Blanking cap IP65, ring nut, round, slate grey	5.05.800.064/0000

Protection acc. to DIN EN 60529

## Protective cover, suitable for pushbuttons with flush lens



Protective cover, mounted



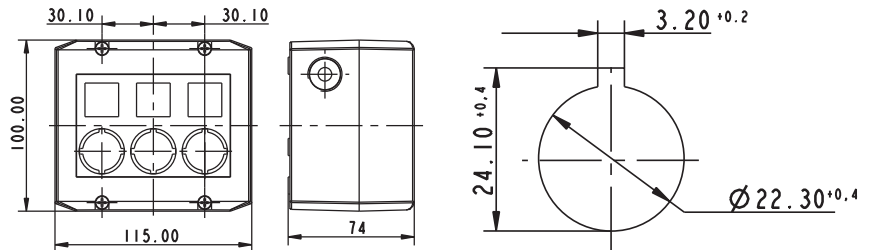
→ Description	Order no.
Protective cover, latching	5.05.511.195/0000
Protective cover, auto-closing	5.05.511.194/0000

# CONTROL COMPONENTS

RAFIX 22 QR - SPECIAL ACCESSORIES



## RAFIX Insulating housing IP65, Ø 22.3 mm



Panel cut-out to IEC 60947-5-1

→ Description	Number of cut-outs	Ø	Dimensions	Order no.
RAFIX - Insulating housing, Ø 22.3 mm, IP65, 1-module, light grey/dark grey	1	22,3 mm	100x55x74 mm	1.20.810.201/0000
RAFIX - Insulating housing, Ø 22.3 mm, IP65, 1-module, yellow/yellow	1	22,3 mm	100x55x74 mm	1.20.810.202/0000
RAFIX - Insulating housing, Ø 22.3 mm, IP65, 2-module, light grey/dark grey	2	22,3 mm	100x115x74 mm	1.20.820.201/0000
RAFIX - Insulating housing, Ø 22.3 mm, IP65, 3-module, light grey/dark grey	3	22,3 mm	100x115x74 mm	1.20.830.201/0000
RAFIX - Insulating housing, Ø 22.3 mm, IP65, 4-module, light grey/dark grey	4	22,3 mm	100x145x74 mm	1.20.840.201/0000

- 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 IP65 to DIN EN 60529

- 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

#### Accessoires:

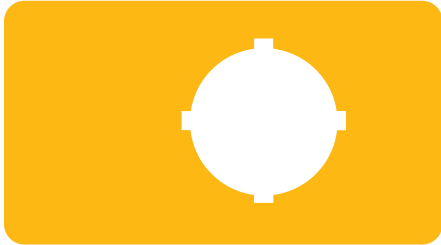
Label sheet for housing (50 foil legend inserts): 5.40.451.283/0000

2

RAFIX  
22 QR



## Emergency stop label, Ø 22.3 mm



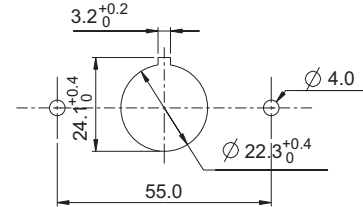
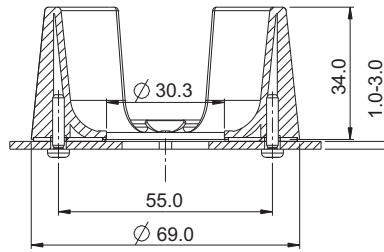
→ Dimensions	inside Ø	Label	Order no.
36 x 64 mm	22.3 mm	-	5.76.205.011/0400
Ø 40 mm	22.3 mm	„NOT-HALT, EMERGENCY STOP, ARRET D'URGENCE, EMERGENZA“	5.76.204.115/0400
Ø 40 mm	22.3 mm	4 x „NOT-HALT“	5.76.204.117/0400
Ø 40 mm	22.3 mm	4 x „NOT-AUS“	5.76.204.119/0400
Ø 40 mm	22.3 mm	4 x „EMERGENCY STOP“	5.76.204.121/0400
Ø 60 mm	22.3 mm	1 x „NOT-AUS“	5.76.207.001/0400
Ø 60 mm	22.3 mm	„EMERGENCY-STOP / ARRET D'URGENCE“	5.76.207.002/0400
Ø 60 mm	22.3 mm	1 x „NOT-AUS“	5.76.204.101/0400
Ø 60 mm	22.3 mm	1 x „ARRET D'URGENCE“	5.76.204.102/0400
Ø 60 mm	22.3 mm	1 x „EMERGENCY STOP“	5.76.204.103/0400
Ø 60 mm	22.3 mm	„NOT-HALT, EMERGENCY STOP, ARRET D'URGENCE, EMERGENZA“	5.76.204.107/0400
Ø 60 mm	22.3 mm	4 x „NOT-HALT“	5.76.204.109/0400
Ø 60 mm	22.3 mm	4 x „NOT-AUS“	5.76.204.111/0400
Ø 60 mm	22.3 mm	4 x „EMERGENCY STOP“	5.76.204.113/0400

# CONTROL COMPONENTS

RAFIX 22 QR - SPECIAL ACCESSORIES



## RAFIX 22 QR / RAFIX 22 FSR Protective collar



2

→ Description	Order no.
Protective Collar for emergency stop RAFIX 22 QR	5.00.456.002/0000

RAFI protective collars protect the pushbuttons from unintentional operation and damage. Another great advantage is that they can be mounted directly on the front panel using two screws and without mechanical attachment to the actuator and/or emergency stop pushbutton. This provides for additional safety because lateral forces are not transferred to the actuator housing.

RAFIX  
22 QR