RAFIX

22 QR



## **General data**

#### RAFIX 22QR control component range

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

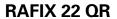
The specified data apply only if actuators/signal indicators are combined with contact blocks and lamp sockets within the same product range.

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Control components

Stock items are marked by bold printed order numbers.





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RAFIX 22 QR mushroom-headed pushbutton RAFIX 22 QR mushroom-headed pushbutton 40 mm, round collar RAFIX 22 QR mushroom-headed pushbutton 40 mm, illuminated, round collar RAFIX 22 QR mushroom-headed pushbutton 60 mm, round collar RAFIX 22 QR mushroom-headed pushbutton 40 mm, square collar RAFIX 22 QR mushroom-headed pushbutton 40 mm, illuminated, square collar RAFIX 22 QR mushroom-headed pushbutton 60 mm, square collar	2 - 120 2 - 121 2 - 121 2 - 122 2 - 122 2 - 123 2 - 123
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Contact blocks marked with different colours for ease of identification in stock and when connecting.

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

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.

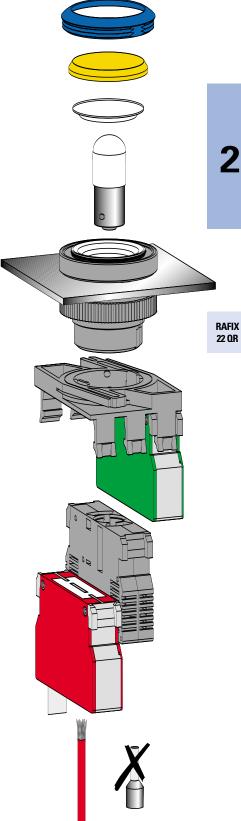


The components feature a removable locating lug. If installed without locating lug, the ring nut with claw can

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).



**Control Components** 



# **Terminals**

#### Screw terminals, cage clamp or RJ 12

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

#### **Screw terminals**

The terminals are open and the captive screws are mounted in the terminal recess.

#### Cage clamp terminals

Simply insert a screwdriver to open the terminal, insert the cable and remove the screwdriver to close the terminal.

#### **RJ 12-terminal**

Just plug in the cable with a RJ 12 connector. Details see page 25.

# 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**

### Cage clamp terminals







Open the terminal.



Tighten the screw.



Insert the wire.



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Sealed for life against humidity and dirt

The special seal reliably prevents moisture, oil and dust from penetrating to the contact block. In contrast to other sealing types which move up and down the shaft,

this special seal is firmly seated on the housing (degree of protection IP 65 to DIN).



Done.



Remove the screwdriver.

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

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**Control Components** 

The RAFIX 22 QR control component range meets all the technical requirements and current standards

control units. The system is of modular design. Actuators, contact blocks and lamp sockets can be

combined freely. This means that you may implement modifications of design or configuration even at the last minute. An additional positive effect is the reduction of stockholding costs.

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

- Fix the actuator in the front panel with the ring nut.
- · Snap the individual elements (a maximum three contact blocks or two contact blocks together with a lamp socket) in the coupling. You can install them on any assembling
- Insert the lamp or LED into the lamp socket.



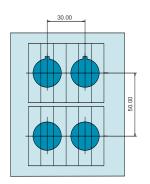
Assembly

Disassembly

#### **Approvals**

Approvals	Approvals   ● = approved, ○ = pending					
Part no.	BG zert.	VDE 0660	10/15	ULc	GL	
1.20 124	0	0	•	•	0	
1.20 125	0	0	•	•	0	
1.30 243	0			•		
1.71 213		0	•	•	0	
1.71 214		0	•	•	0	

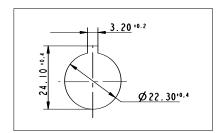
**RAFIX** 22 QR



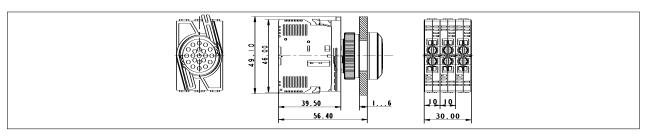
#### Panel cut-out according to IEC 60947-5-1

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 revommend to use the same grid spacing also for the round collar shapes (IEC 947).

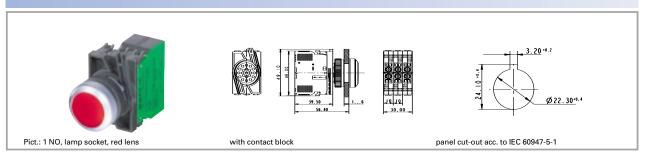


## **Dimensioned drawing**



**Control Components** 2 - 97

# **RAFIX 22 QR control component assemblies**



## **Technical data**

#### **General information**

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

#### **Dimensions**

Key grid 50 x 30 mm
Diameter of collar 29.8 mm
Overall height see order block
Mounting depth 56.4 mm
Mounting hole 22.3 mm

#### Mechanical design

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

#### **Mechanical characteristics**

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

Robustness min. 100

## **Electrical characteristics**

Protection class II

#### Other specifications

Degree of protection from front side IP65
Storage temperature min. -40 °C
Storage temperature max. +80 °C
Resistance to constant environment according to

Resistance at variable environment

Ambient temp. operating min.
Ambient temp. operating

max. Approvals -25 °C

according to

IEC 600 68-2-3 and 2-30

IEC 600 68-2-14 and 2-33

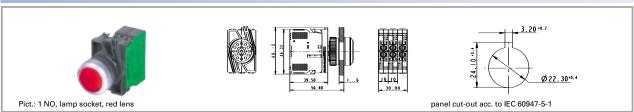
+70 °C ENEC 10/15, ULC

## Accessories RAFIX 22 QR control component assemblies

Description	Photo	Order no.	Page
Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V		1.90.060.133/0000	5 - 8
Neon lamp BA 9s (MBC/MCC), 220 V AC (red)	<b>←</b>	1.90.560.102/0000	5 - 9
LED BA 9s (MBC/MCC) superbright, white, 24 V		1.90.690.345/0000	5 - 20
Fixing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25
Label holder, round collar, with adhesive tape and release liner on back		5.07.620.010/0000	2 - 157



# RAFIX 22 QR assembly: Pushbutton, round, illuminated, flush lens, metallized front ring and silver contact block



Contact arrangement	Contact arrangement Contact function		Colour of lens Order no. complete	Order no. single parts	
				Contact block	Actuator
1 NO	momentary	transparent colourless	9.20.124.001/1000	1.20.124.022/0000	1.30.240.021/1000
1 NO	momentary	transparent red	9.20.124.001/1300	1.20.124.022/0000	1.30.240.021/1300
1 NO	momentary	transparent yellow	9.20.124.001/1400	1.20.124.022/0000	1.30.240.021/1400
1 NO	momentary	transparent green	9.20.124.001/1500	1.20.124.022/0000	1.30.240.021/1500
1 NO	momentary	transparent blue	9.20.124.001/1600	1.20.124.022/0000	1.30.240.021/1600

Technical data see page 2 - 98

#### Accessories:

Filament lamp, BA 9s base (MBC/MCC), 12 - 15 V: 1.90.060.132/0000 Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V: 1.90.060.133/0000 Filament lamp, BA 9s base (MBC/MCC), 110 - 130 V: 1.90.060.137/0000 LED BA 9s (MBC/MCC) superbright, red, 24 V: 1.90.690.341/0000 LED BA 9s (MBC/MCC) superbright, green, 24 V: 1.90.690.342/0000 LED BA 9s (MBC/MCC) superbright, yellow, 24 V: 1.90.690.343/0000 LED BA 9s (MBC/MCC) superbright, blue, 24 V: 1.90.690.344/0000 LED BA 9s (MBC/MCC) superbright, white, 24 V: 1.90.690.345/0000 Legend insert without legend: 5.70.800.000/2000

**RAFIX** 

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# RAFIX 22 QR assembly: Emergency stop Twist to Reset pushbutton and silver contact block



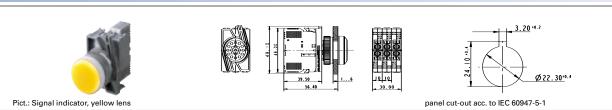
Contact arrangement	Contact function	Colour of lens	Order no. complete	Order no. single parts	
				Contact block	Actuator
1 NC	latching	opaque red	9.20.124.030/0300	1.20.124.001/0000	1.30.243.501/0300
1 NC + 1 NO	latching	opaque red	9.20.124.031/0300	1.20.124.017/0000	1.30.243.501/0300

Technical data see page 2 - 98

#### Accessories:

Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend "NOT-AUS": 5.76.204.101/0400 Emergency stop label, yellow, round 60 mm, rigid PVC, with legend "EMERGENCY-STOP/ARRET D'URGENCE": 5.76.207.002/0400

# RAFIX 22 QR assembly: Signal indicator and lamp socket



Contact arrangement	Contact function	Colour of lens	Order no. complete	Order no. s	single parts
				Contact block	Actuator
		transparent colourless	9.71.213.001/1000	1.71.213.001/0000	1.74.505.501/1000
		transparent red	9.71.213.001/1300	1.71.213.001/0000	1.74.505.501/1300
		transparent yellow	9.71.213.001/1400	1.71.213.001/0000	1.74.505.501/1400
		transparent green	9.71.213.001/1500	1.71.213.001/0000	1.74.505.501/1500
		transparent blue	9.71.213.001/1600	1.71.213.001/0000	1.74.505.501/1600

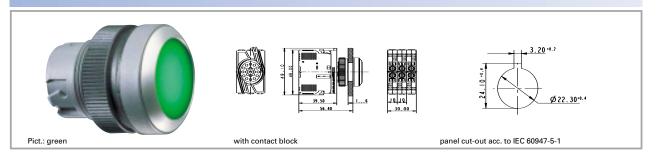
Technical data see page 2 - 98

#### Accessories:

RAFIX 22 QR Filament lamp, BA 9s base (MBC/MCC), 12 - 15 V: 1.90.060.132/0000 Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V: 1.90.060.133/0000 Filament lamp, BA 9s base (MBC/MCC), 110 - 130 V: 1.90.060.137/0000 LED BA 9s (MBC/MCC) superbright, red, 24 V: 1.90.690.341/0000 LED BA 9s (MBC/MCC) superbright, green, 24 V: 1.90.690.342/0000 LED BA 9s (MBC/MCC) superbright, yellow, 24 V: 1.90.690.343/0000 LED BA 9s (MBC/MCC) superbright, blue, 24 V: 1.90.690.343/0000 LED BA 9s (MBC/MCC) superbright, white, 24 V: 1.90.690.345/0000 Legend insert without legend: 5.70.803.000/2000

# RAFIX 22 QR

# **RAFIX 22 QR pushbutton**



## **Technical data**

# General information

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

#### **Dimensions**

Key grid

Length of collar
Width of collar
Overall height
Mounting depth with
contact block without cable
Mounting hole
see order block
see order block
56.4 mm
22.3 mm

50 x 30 mm

see order block

# Diameter of collar Mechanical design

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

#### **Mechanical characteristics**

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

Robustness min.

#### Other specifications

Operating life (operations)

Degree of protection from front side Ambient temp. operating min. Ambient temp. operating

max. Storage temperature min. Storage temperature max.

Resistance to constant environment

Resistance at variable environment

1 million momentary/ 0.5 million latching

#### IP65

100 N

-25 °C

+70 °C -40 °C +80 °C

according to IEC 600 68-2-3 and 2-30

according to IEC 600 68-2-14 and 2-33

## **Accessories RAFIX 22 QR pushbutton**

Description	Photo	Order no.	Page
RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NO	<b>S</b>	1.20.124.002/0000	2 - 140
RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, screw terminals, 1 NC + 1 NO		1.20.124.027/0000	2 - 141
RAFIX 22 QR contact block with gold contacts, with coupling and lamp socket, screw terminals, 1 NO		1.20.124.122/0000	2 - 145
RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, cage clamp terminals, 1 NO, 1		1.20.125.025/0000	2 - 141
Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V		1.90.060.133/0000	5 - 8
LED BA 9s (MBC/MCC) superbright, white, 24 V		1.90.690.345/0000	5 - 20

RAFIX 22 QR

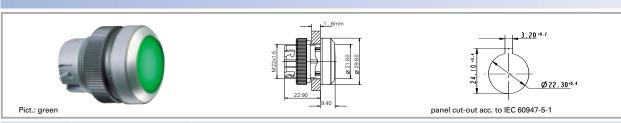


# **Accessories RAFIX 22 QR pushbutton**

Description	Photo	Order no.	Page
Fixing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25
Label holder, round collar, with adhesive tape and release liner on back		5.07.620.010/0000	2 - 157

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

# RAFIX 22 QR pushbutton, flush lens, round collar



Illuminability	Colour of lens	Order no.	momentary	Order no	o. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent white	1.30.240.001/10xx	1.30.240.021/1000	1.30.240.011/10xx	1.30.240.031/1000
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
no	opaque black	1.30.240.101/01xx	1.30.240.121/0100	1.30.240.111/01xx	1.30.240.131/0100
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 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 slate-grey	1.30.240.101/07xx	1.30.240.121/0700	1.30.240.111/07xx	1.30.240.131/0700

Technical data see page 2 - 102

#### Accessories:

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

Protective cover, auto-closing: 5.05.511.194/0000 Protective cover, latching: 5.05.511.195/0000 Legend insert without legend: 5.70.800.000/2000

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

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

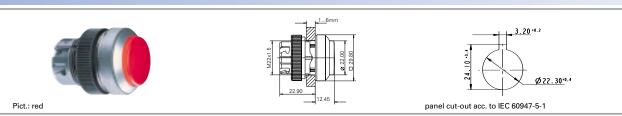
Order numbers 1.30.240.001/—08, 1.30.240.011/—08 and 1.30.240.101/—08 (with silver grey plastic front ring) are stock items.

Control components

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



# RAFIX 22 QR pushbutton, protruding lens, round collar



Illuminability Colour of lens Order no. momentary Order no. latching Plastic front ring Metallized front ring Plastic front ring Metallized front ring yes transparent white 1.30.240.201/10xx 1.30.240.221/1000 1.30.240.211/10xx 1.30.240.231/1000 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 yes 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 opaque black 1.30.240.301/01xx 1.30.240.321/0100 1.30.240.311/01xx 1.30.240.331/0100 no opaque white 1.30.240.301/02xx 1.30.240.321/0200 1.30.240.311/02xx 1.30.240.331/0200 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 1.30.240.301/05xx 1.30.240.321/0500 1.30.240.311/05xx 1.30.240.331/0500 no opaque green opaque blue 1.30.240.301/06xx 1.30.240.321/0600 1.30.240.311/06xx 1.30.240.331/0600 no opaque slate-grey 1.30.240.301/07xx 1.30.240.321/0700 1.30.240.311/07xx 1.30.240.331/0700 no

Technical data see page 2 - 102

#### Accessories:

Legend insert without legend: 5.70.802.000/2000

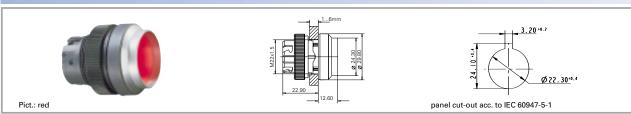
xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

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

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



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



1 100100				parier cut out acc. to iEo	30047 0 1
Illuminability	Colour of lens	Order no.	momentary	Order no	o. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent white	1.30.240.401/10xx	1.30.240.421/1000		
yes	transparent red	1.30.240.401/13xx	1.30.240.421/1300		
yes	transparent yellow	1.30.240.401/14xx	1.30.240.421/1400		
yes	transparent green	1.30.240.401/15xx	1.30.240.421/1500		
yes	transparent blue	1.30.240.401/16xx	1.30.240.421/1600		
no	opaque black	1.30.240.501/01xx	1.30.240.521/0100		
no	opaque white	1.30.240.501/02xx	1.30.240.521/0200		
no	opaque red	1.30.240.501/03xx	1.30.240.521/0300		
no	opaque yellow	1.30.240.501/04xx	1.30.240.521/0400		
no	opaque green	1.30.240.501/05xx	1.30.240.521/0500		
no	opaque blue	1.30.240.501/06xx	1.30.240.521/0600		
no	opaque slate-grey	1.30.240.501/07xx	1.30.240.521/0700		

Technical data see page 2 - 102

#### Accessories:

Legend insert without legend: 5.70.800.000/2000

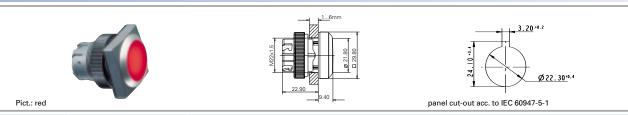
xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

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

2



# RAFIX 22 QR pushbutton, flush lens, square collar



Illuminability Colour of lens Order no. momentary Order no. latching Plastic front ring Metallized front ring Plastic front ring Metallized front ring yes transparent white 1.30.240.051/10xx 1.30.240.071/1000 1.30.240.061/10xx 1.30.240.081/1000 1.30.240.051/13xx 1.30.240.071/1300 1.30.240.061/13xx 1.30.240.081/1300 yes transparent red 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 opaque black 1.30.240.151/01xx 1.30.240.171/0100 1.30.240.161/01xx 1.30.240.181/0100 no opaque white 1.30.240.151/02xx 1.30.240.171/0200 1.30.240.161/02xx 1.30.240.181/0200 1.30.240.151/03xx 1.30.240.171/0300 1.30.240.161/03xx 1.30.240.181/0300 no opaque red opaque yellow 1.30.240.151/04xx 1.30.240.171/0400 1.30.240.161/04xx 1.30.240.181/0400 no 1.30.240.151/05xx 1.30.240.171/0500 1.30.240.161/05xx 1.30.240.181/0500 no opaque green opaque blue 1.30.240.151/06xx 1.30.240.171/0600 1.30.240.161/06xx 1.30.240.181/0600 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

Technical data see page 2 - 102

#### Accessories:

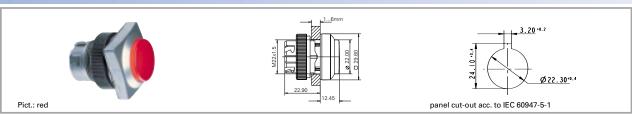
Front ring, plastic with protective cap, slate grey: 5.05.004.914/0700 Legend insert without legend: 5.70.800.000/2000

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

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

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

# RAFIX 22 QR pushbutton, protruding lens, square collar



Pict.: red				panel cut-out acc. to IEC	60947-5-1
Illuminability	Colour of lens	Order no.	momentary	Order no	o. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent white	1.30.240.251/10xx	1.30.240.271/1000	1.30.240.261/10xx	1.30.240.281/1000
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
no	opaque black	1.30.240.351/01xx	1.30.240.371/0100	1.30.240.361/01xx	1.30.240.381/0100
no	opaque white	1.30.240.351/02xx	1.30.240.371/0200	1.30.240.361/02xx	1.30.240.381/0200
no	opaque red	1.30.240.351/03xx	1.30.240.371/0300	1.30.240.361/03xx	1.30.240.381/0300
no	opaque yellow	1.30.240.351/04xx	1.30.240.371/0400	1.30.240.361/04xx	1.30.240.381/0400
no	opaque green	1.30.240.351/05xx	1.30.240.371/0500	1.30.240.361/05xx	1.30.240.381/0500
no	opaque blue	1.30.240.351/06xx	1.30.240.371/0600	1.30.240.361/06xx	1.30.240.381/0600
no	opaque slate-grey	1.30.240.351/07xx	1.30.240.371/0700	1.30.240.361/07xx	1.30.240.381/0700

Technical data see page 2 - 102

#### Accessories:

Legend insert without legend: 5.70.802.000/2000

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

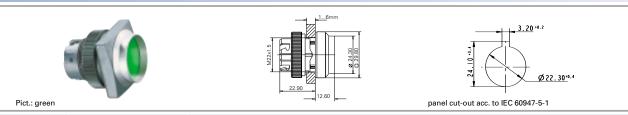
Pushbuttons with plastic front ring and white lens are also available with the following front ring colours: red = 03, yellow = 04, green = 05, blue = 06. Other colour combinations on request.

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

2



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



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

Technical data see page 2 - 102

#### Accessories:

Legend insert without legend: 5.70.800.000/2000

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

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

**RAFIX** 

22 QR

# **RAFIX 22 QR selector switch**



## **General data**

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

#### **Technical data**

General information
Form of handle see order block
Colour of lens white
Colout of front ring see order block
Form of collar see order block
Dimensions

Length of collar see order block Width of collar see order block Overall height 22.2 mm

Mounting depth with contact block without cable Mounting hole 22.3 mm

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

Mechanical design

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

Mechanical characteristics
Operating force max.

Torque max.

Electrical characteristics
Protection class

Other specifications
Operating life

approx. 5 N for 1 switching element 2 Nm

Il

Other specifications
Operating life

0.5 million

Operating life
Degree of protection
from front side
Ambient temp. operating
min.
-27 °C
Ambient temp. operating
max.
+70 °C
Storage temperature min.
Storage temperature max.
Resistance to constant
environment

O.5 million

IP65

-27 °C

+70 °C
+80 °C

according to

IEC 600 68-2-3 and 2-30
Resistance at variable
environment according to

according to IEC 600 68-2-14 and 2-33

#### **Accessories RAFIX 22 QR selector switch**

Description	Photo	Order no.	Page
RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NC + 1	10	1.20.124.017/0000	2 - 140
RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, screw terminals, 1 NC + 1 NO	Ø	1.20.124.027/0000	2 - 141
RAFIX 22 QR contact block with gold contacts, with coupling and lamp socket, screw terminals, 1 NC + 1 NO, 1 NC + 1 NO	Ø	1.20.124.128/0000	2 - 145
Contact block with coupling, gold contacts, RJ 12 connector, 1 NC + 1 NO, white LED	*	1.20.128.013/0000	2 - 147

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

RAFIX 22 QR

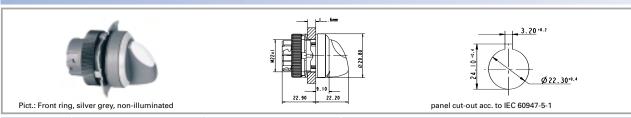


#### **Accessories RAFIX 22 QR selector switch**

Description	Photo	Order no.	Page
Label holder, round collar, with adhesive tape and release liner on back		5.07.620.010/0000	2 - 157

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

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



Illuminability	Contact function	Rotating angle	Drehwinkel	Order no.	
				Plastic front ring	Metal front ring
yes	momentary	1 x 40°	<b>&gt;</b>	1.30.242.001/22xx	1.30.242.002/2200
yes	momentary	2 x 40°	$\Rightarrow$	1.30.242.026/22xx	1.30.242.027/2200
yes	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°	2	1.30.242.426/22xx	1.30.242.427/2200
yes	latching	1 x 90°, form L	, 1	1.30.242.101/22xx	1.30.242.102/2200
yes	latching	1 x 90°, form V	0 1	1.30.242.201/22xx	1.30.242.202/2200
yes	latching	2 x 60°	$\bigcirc$	1.30.242.301/22xx	1.30.242.302/2200
yes	latching	2 x 90°	2	1.30.242.126/22xx	1.30.242.127/2200
no	momentary	1 x 40°	>	1.30.242.501/02xx	1.30.242.502/0200
no	momentary	2 x 40°	$\Diamond$	1.30.242.526/02xx	1.30.242.527/0200
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
no	latching	1 x 90°, form L	Ď,	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

Technical data see page 2 - 110

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

Included: Ring nut with claw.

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

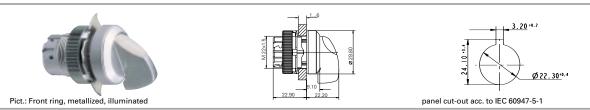
The following selector switches with silver grey plastic front ring are stock items: Illuminated: 1.30.252.001/2208, 1.30.252.026/2208, 1.30.252.101/2208, 1.30.252.201/2208, 1.30.252.301/2208 Non-illuminated: 1.30.252.501/0208, 1.30.252.506/0208, 1.30.252.601/0208, 1.30.252.701/0208, 1.30.252.801/0208

Control components

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



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



Pict.: Front ring, metallized, illuminated panel cut-out acc. to IEC 60947-5-1					50947-5-1
Illuminability	Contact function	Rotating angle	Drehwinkel	Ord	er no.
				Plastic front ring	Metal front ring
yes	momentary	1 x 40°		1.30.242.011/22xx	1.30.242.012/2200
yes	momentary	2 x 40°	$\stackrel{\hspace{0.1cm}}{\hspace{0.1cm}}$	1.30.242.036/22xx	1.30.242.037/2200
yes	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°	2	1.30.242.436/22xx	1.30.242.437/2200
yes	latching	1 x 90°, form L	Č 1	1.30.242.111/22xx	1.30.242.112/2200
yes	latching	1 x 90°, form V	0 1	1.30.242.211/22xx	1.30.242.212/2200
yes	latching	2 x 60°	$\bigcirc$	1.30.242.311/22xx	1.30.242.312/2200
yes	latching	2 x 90°	2	1.30.242.136/22xx	1.30.242.137/2200
no	momentary	1 x 40°		1.30.242.511/02xx	1.30.242.512/0200
no	momentary	2 x 40°	$\stackrel{\hspace{0.1cm} \stackrel{\hspace{0.1cm} \bullet}{\hspace{0.1cm}}}{\hspace{0.1cm}}$	1.30.242.536/02xx	1.30.242.537/0200
no	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°	2	1.30.242.936/02xx	1.30.242.937/0200
no	latching	1 x 90°, form L	ا ا	1.30.242.611/02xx	1.30.242.612/0200
no	latching	1 x 90°, form V	0 1	1.30.242.711/02xx	1.30.242.712/0200
no	latching	2 x 60°	$\Diamond$	1.30.242.811/02xx	1.30.242.812/0200
no	latching	2 x 90°	2	1.30.242.636/02xx	1.30.242.637/0200

Technical data see page 2 - 110

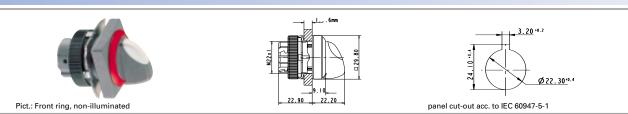
xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08; other colours on request.

Included: Ring nut with claw.

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



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



Pict.: Front ring, non-illuminated panel cut-out acc. to IEC 60947-5-1					
Illuminability	Contact function	Rotating angle	Drehwinkel	Orde	er no.
				Plastic front ring	Metal front ring
yes	momentary	1 x 40°	Ď	1.30.242.051/22xx	1.30.242.052/2200
yes	momentary	2 x 40°	$\stackrel{\circ}{\checkmark}$	1.30.242.076/22xx	1.30.242.077/2200
yes	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°	2	1.30.242.476/22xx	1.30.242.477/2200
yes	latching	1 x 90°, form L	Č 1	1.30.242.151/22xx	1.30.242.152/2200
yes	latching	1 x 90°, form V	0	1.30.242.251/22xx	1.30.242.252/2200
yes	latching	2 x 60°	$\bigcirc$	1.30.242.351/22xx	1.30.242.352/2200
yes	latching	2 x 90°	2 0	1.30.242.176/22xx	1.30.242.177/2200
no	momentary	1 x 40°		1.30.242.551/02xx	1.30.242.552/0200
no	momentary	2 x 40°	$\stackrel{\circ}{\bigodot}$	1.30.242.576/02xx	1.30.242.577/0200
no	latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°	2	1.30.242.976/02xx	1.30.242.977/0200
no	latching	1 x 90°, form L	Ď,	1.30.242.651/02xx	1.30.242.652/0200
no	latching	1 x 90°, form V	0 1	1.30.242.751/02xx	1.30.242.752/0200
no	latching	2 x 60°	$\bigcirc$	1.30.242.851/02xx	1.30.242.852/0200
no	latching	2 x 90°	2	1.30.242.676/02xx	1.30.242.677/0200

Technical data see page 2 - 110

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

Included: Ring nut with claw.

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

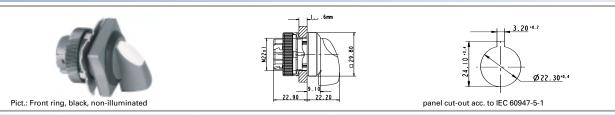
A third contact block arranged in the centre would be actuated with either sense of rotation.

The following selector switches with silver grey plastic front ring are stock items: Illuminated: 1.30.242.051/2208, 1.30.242.076/2208, 1.30.242.151/2208, 1.30.242.251/2208, 1.30.242.351/2208 Non-illuminated: 1.30.242.551/0208, 1.30.242.576/0208, 1.30.242.651/0208, 1.30.242.751/0208, 1.30.242.851/0208

2



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



Illuminability	Contact function	Rotating angle	Drehwinkel	Ord	ler no.
				Plastic front ring	Metal front ring
yes	momentary	1 x 40°	<b>&gt;</b>	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° and momentary 1 x 40°	1 x 90° and 1 x 40°	2	1.30.242.486/22xx	1.30.242.487/2200
yes	latching	1 x 90°, form L	L <sub>1</sub>	1.30.242.161/22xx	1.30.242.162/2200
yes	latching	1 x 90°, form V	0 1	1.30.242.261/22xx	1.30.242.262/2200
yes	latching	2 x 60°	$\bigcirc$	1.30.242.361/22xx	1.30.242.362/2200
yes	latching	2 x 90°	2	1.30.242.186/22xx	1.30.242.187/2200
no	momentary	1 x 40°	>	1.30.242.561/02xx	1.30.242.562/0200
no	momentary	2 x 40°	$\diamondsuit$	1.30.242.586/02xx	1.30.242.587/0200
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
no	latching	1 x 90°, form L	,	1.30.242.661/02xx	1.30.242.662/0200
no	latching	1 x 90°, form V	0 1	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

Technical data see page 2 - 110

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

Included: Ring nut with claw.

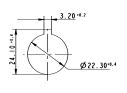
On selector switches with 3 switching positions (e.g.  $2 \times 90$  degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation. A third contact block arranged in the centre would be actuated with either sense of rotation.

2

# **RAFIX 22 QR keylock switch**







panel cut-out acc. to IEC 60947-5-1

## **Technical data**

#### **General information**

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

#### **Dimensions** Length of collar

Width of collar see order block
Overall height 30.6 mm

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

see order block

#### Mechanical design

Mounting ring nut
Contact function see order block
Illuminability no
Lock Ronis
Wafers 4
Lock type 455
Main key no
Symmetric key no

Rotating angle see order block Key removal position see order block

#### **Mechanical characteristics**

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

Electrical characteristics

Protection class

#### Other specifications

Operating life

Degree of protection from front side Ambient temp. operating min. Ambient temp. operating max.

Storage temperature min. Storage temperature max. Resistance to constant environment

Resistance at variable environment

0.3 million momentary / 50000 latching

IP65

Ш

-25 °

+70 ° -40 °C +80 °C

according to IEC 600 68-2-3 and 2-30

according to

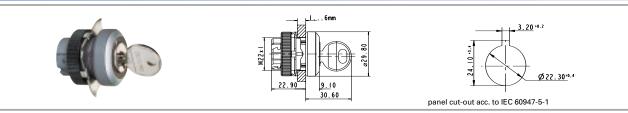
IEC 600 68-2-14 and 2-33

# Accessories RAFIX 22 QR keylock switch

Description	Photo	Order no.	Page
RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NC + 1		1.20.124.017/0000	2 - 140
RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, cage clamp terminals, 1		1.20.125.002/0000	2 - 140
Contact block with coupling, gold contacts, RJ 12 connector, 1 NC + 1 NO, without LED	# E	1.20.128.003/0000	2 - 147
Label holder, round collar, with adhesive tape and release liner on back		5.07.620.010/0000	2 - 157
Spare key for RAFIX 22 QR		5.58.017.001/0000	



# RAFIX 22 QR keylock switch, round collar



				parier cut out acc: to iEo	00047 0 1	
Contact function	Rotating angle	Key removal position	Rotating	Order no.		
			angle	Plastic front ring	Metal front ring	
momentary	1 x 40°	0		1.30.245.001/xxxx	1.30.245.002/0000	
momentary	2 x 40°	0		1.30.245.101/xxxx	1.30.245.102/0000	
latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°	0	2	1.30.245.501/xxxx	1.30.245.502/0000	
latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°	0+2	2	1.30.245.521/xxxx	1.30.245.522/0000	
latching	1 x 90°, form L	0	Ů,	1.30.245.201/xxxx	1.30.245.202/0000	
latching	1 x 90°, form L	0+1	Ď,	1.30.245.221/xxxx	1.30.245.222/0000	
latching	1 x 90°, form V	0	0 1	1.30.245.301/xxxx	1.30.245.302/0000	
latching	1 x 90°, form V	0+1	0 1	1.30.245.321/xxxx	1.30.245.322/0000	
latching	2 x 60°	0+1+2		1.30.245.731/xxxx	1.30.245.732/0000	
latching	2 x 90°	0		1.30.245.401/xxxx	1.30.245.402/0000	
latching	2 x 90°	0+1+2		1.30.245.431/xxxx	1.30.245.432/0000	

Technical data see page 2 - 116

xxxx = Front ring colour: black = 0100, slate grey = 0700, silver grey = 0800.

Other versions on request.

Included: Ring nut with claw.

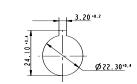
On selector switches with 3 switching positions (e.g. 2 x 90 degrees), either the left-hand or right-hand contact block is activated, depending on the sense of rotation. A third contact block arranged in the centre would be actuated with either sense of rotation.

The following keylock switches with silver grey plastic front ring are stock items: 1.30.245.001/0800, 1.30.245.201/0800, 1.30.245.221/0800, 1.30.245.301/0800, 1.30.245.321/0800, 1.30.245.731/0800



# RAFIX 22 QR keylock switch, square collar





panel cut-out acc. to IEC 60947-5-1

RAFIX 22 QR

				parier out out acc. to ize	70047 0 1	
Contact function	Rotating angle	Key removal position	Rotating angle	Order no.		
			angie	Plastic front ring	Metal front ring	
momentary	1 x 40°	0	<b>&gt;</b>	1.30.245.051/xxxx	1.30.245.052/0000	
momentary	2 x 40°	0	$\stackrel{\circ}{\diamondsuit}$	1.30.245.151/xxxx	1.30.245.152/0000	
latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°	0	2	1.30.245.551/xxxx	1.30.245.552/0000	
latching 1 x 90° and momentary 1 x 40°	1 x 90° and 1 x 40°	0+2	2	1.30.245.571/xxxx	1.30.245.572/0000	
latching	1 x 90°, form L	0	Ů,	1.30.245.251/xxxx	1.30.245.252/0000	
latching	1 x 90°, form L	0+1	ů 1	1.30.245.271/xxxx	1.30.245.272/0000	
latching	1 x 90°, form V	0	0 1	1.30.245.351/xxxx	1.30.245.352/0000	
latching	1 x 90°, form V	0+1	0	1.30.245.371/xxxx	1.30.245.372/0000	
latching	2 x 60°	0+1+2	$\Diamond$	1.30.245.781/xxxx	1.30.245.782/0000	
latching	2 x 90°	0	2	1.30.245.451/xxxx	1.30.245.452/0000	
latching	2 x 90°	0+1+2		1.30.245.481/xxxx	1.30.245.482/0000	

Technical data see page 2 - 116

xxxx = Front ring colour: black = 0100, slate grey = 0700, silver grey = 0800.

Other versions on request.

Included: Ring nut with claw.

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

The following keylock switches with silver grey plastic front ring are stock items: 1.30.245.051/0800, 1.30.245.251/0800, 1.30.245.271/0800, 1.30.245.351/0800, 1.30.245.371/0800, 1.30.245.781/0800



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



2

## **Technical data**

**General information** 

Form of lens Colour of mushroom Colout of front ring Form of collar mushroom formed see order block see order block see order block

Dimensions

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

Mechanical design

Mounting Contact function Illuminability ring nut see order block see order block **Mechanical characteristics** 

Operating force max.

Robustness min.

**Electrical characteristics**Protection class

Other specifications

Operating life
Degree of protection
from front side
Storage temperature min.
Storage temperature max.
Resistance to constant
environment

Resistance at variable environment

approx. 5 N for 1 switching element

100 N

Ш

1000000

IP65 -40 °C 80 °C

according to IEC 600 68-2-3 and 2-30

according to IEC 600 68-2-14 and 2-33

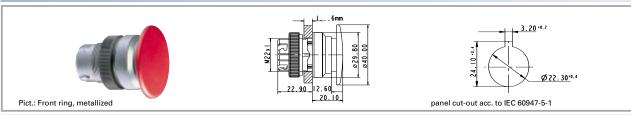
# Accessories RAFIX 22 QR mushroom-headed pushbutton

Description	Photo	Order no.	Page
RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NC + 1	5	1.20.124.017/0000	2 - 140
RAFIX 22 QR contact block with gold contacts, with coupling, without lamp socket, cage clamp terminals, 1	<b>9</b>	1.20.125.102/0000	2 - 144
Contact block with coupling, gold contacts, RJ 12 connector, 1 NO, without LED	0	1.20.128.002/0000	2 - 147
Fixing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25

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



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

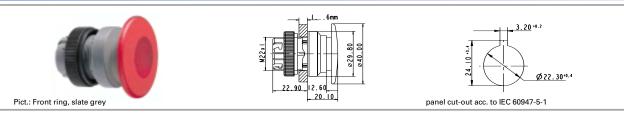


Illuminability	Colour of mushroom	Order no. momentary		Order no. latching		
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring	
no	opaque black	1.30.246.501/01xx	1.30.246.502/0100	1.30.246.511/01xx	1.30.246.512/0100	
no	opaque red	1.30.246.501/03xx	1.30.246.502/0300	1.30.246.511/03xx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

Technical data see page 2 - 120

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

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



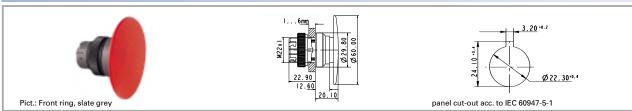
Illuminability	Colour of mushroom	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	opaque red/ transparent red	1.30.246.001/03xx	1.30.246.002/0300	1.30.246.011/03xx	1.30.246.012/0300

Technical data see page 2 - 120

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

RAFIX 22 QR

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

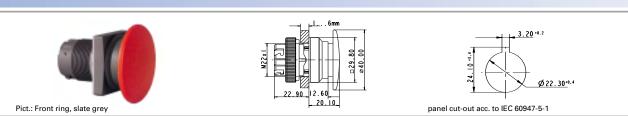


Illuminability	Colour of mushroom	Order no. momentary		Order no. latching		
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring	
no	opaque red	1.30.246.601/03xx	1.30.246.602/0300			

Technical data see page 2 - 120

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

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



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

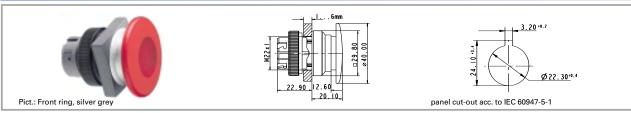
Technical data see page 2 - 120

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

Order number  ${\bf 1.30.246.551/0308}$  (with silver grey plastic front ring) is a  ${\bf stock}$  item.



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



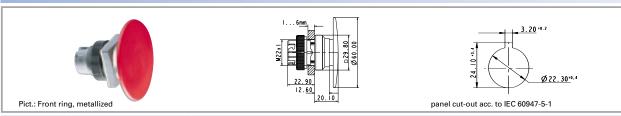
Illuminability	Colour of mushroom	Order no. momentary		Order no. latching		
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring	
yes	opaque red/ transparent red	1.30.246.051/03xx	1.30.246.052/0300	1.30.246.061/03xx	1.30.246.062/0300	

Technical data see page 2 - 120

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

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

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



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

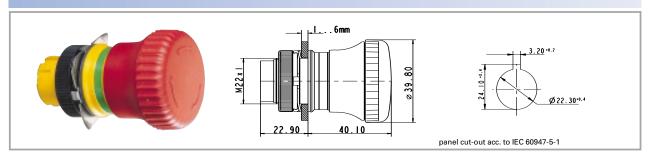
Technical data see page 2 - 120

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

RAFIX

22 QR

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



## **General data**

The emergency stop pushbuttons comply with IEC 60 204, IEC 60 073, IEC 60 947 and VDE 0113 Part 1.

They are designed dupe-proof according to EN 418 with a positive mechanical movement sequence. A certain operating force must be exerted at the action point in order to prevent inadvertent operation.

The pushbutton latches when pressed and is reset by either turning the actuator in a clockwise direction or pulling the actuator back to the original position. The reset means depends on the model.

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. Only use contact block 1.20.126.4xx.

## **Technical data**

General information

Form of lens mushroom formed Colour of lens see order block Form of collar round

**Dimensions** 

see order block Overall height Mounting depth with contact block without cable 56.4 mm 22.3 mm

Mounting hole Key grid Diameter of collar

Mechanical design

Mounting ring nut Contact function latching Illuminability see order block

**Mechanical characteristics** 

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

50 x 30 mm

39.8 mm

Robustness min. Robustness

Other specifications Operating life

Degree of protection from front side

Ambient temp. operating min.

Ambient temp. operating

Storage temperature min. Storage temperature max.

Resistance to constant environment

Resistance at variable environment

100 N

acc. IEC 60947-5-5

see order block

IP65 -25 °C

+70 °C

-40 °C +80 °C

according to

IEC 600 68-2-3 and 2-30

according to

IEC 600 68-2-14 and 2-33

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

Description	Photo	Order no.	Page
RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 1 NC	5	1.20.124.001/0000	2 - 140
RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 2 NC		1.20.124.019/0000	2 - 140
Contact block with coupling, gold contacts, RJ 12 connector, 1 NC, without LED	B	1.20.128.001/0000	2 - 147
Fixing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25
Emergency stop label, yellow, round 60 mm, PVC adhesive, without legend	0	5.76.204.100/0400	2 - 161

Stock items are marked by bold printed order numbers.

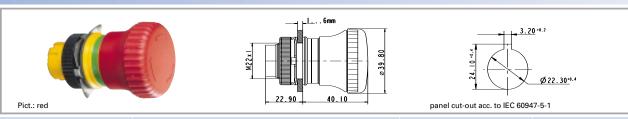
RAFIX 22 QR

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

Description	Photo	Order no.	Page
Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend "NOT-AUS"	0	5.76.204.101/0400	2 - 161
Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend "ARRET D'URGENCE"	0	5.76.204.102/0400	2 - 161
Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend "EMERGENCY-STOP"	0	5.76.204.103/0400	2 - 161
Emergency stop label, yellow 36 x 64 mm, PVC adhesive, without legend		5.76.205.011/0400	2 - 161
Emergency stop label, yellow, round 60 mm, rigid PVC, with legend "EMERGENCY-STOP/ARRET D'URGENCE"	0	5.76.207.002/0400	2 - 161

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

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



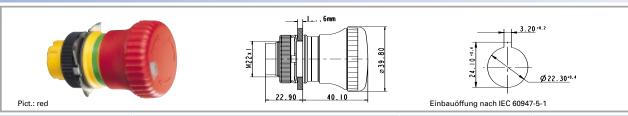
Form of lens	Colour of lens	Illuminability	Operating life	Order no. complete
mushroom formed Twist to Reset	opaque red	no	100000	1.30.243.501/0300
mushroom formed Pull to Reset	opaque red	no	100000	1.30.243.901/0300

Technical data see page 2 - 124

Included: Ring nut with claw.

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

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



Form of lens	Colour of lens	Illuminability	Operating life	Order no. complete
mushroom formed Twist to Reset	opaque red	no	100000	1.30.243.601/0300

Technical data see page 2 - 124

Included: Ring nut with claw.

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

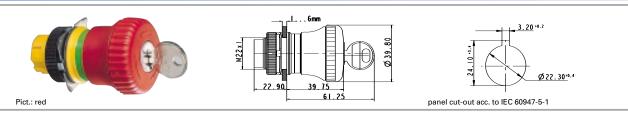
This switching position is visible in addition from the front; a mechanical indicator integrated into the mushroom head changes from green to red when actuated.

Control components

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

RAFIX 22 QR

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



Form of lens	Colour of lens	Illuminability	Operating life	Order no. complete
mushroom formed Twist to Reset	opaque red	no	50000	1.30.243.701/0300

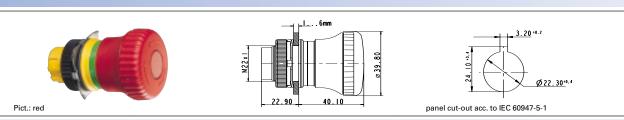
Technical data see page 2 - 124

Included: Ring nut with claw, 2 keys.

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

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

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



Form of lens	Colour of lens	Illuminability	Operating life	Order no. complete
mushroom formed Twist to Reset	opaque red/ translucent red	yes	100000	1.30.243.001/0300

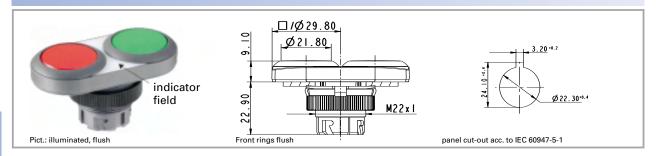
Technical data see page 2 - 124

Included: Ring nut with claw.

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



# **RAFIX 22 QR twin pushbutton**



#### **General data**

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

#### **Technical data**

**RAFIX** 22 QR

**General information** 

Front ring form/Legending see order block Colour of lens opaque green/opaque red Colout of front ring see order block Form of collar see order block

**Dimensions** 

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

Mechanical design

Mounting ring nut Contact function momentary Illuminability see order block **Mechanical characteristics** 

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

Other specifications Degree of protection

from front side IP65 Ambient temp. operating min. -25 °C Ambient temp. operating max. Storage temperature max. +80 °C

Resistance to constant environment

Resistance at variable environment

+70 °C

according to IEC 600 68-2-3 and 2-30

according to

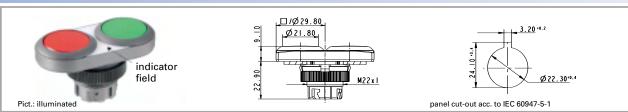
IEC 600 68-2-14 and 2-33

# Accessories RAFIX 22 QR twin pushbutton

Description	Photo	Order no.	Page
RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, screw terminals, 1 NO, 1 NC	<b>Q</b>	1.20.124.025/0000	2 - 141
RAFIX 22 QR contact block with gold contacts, with coupling and lamp socket, cage clamp terminals, 1 NO, 1	<b>T</b>	1.20.125.125/0000	2 - 145
Fixing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25



# RAFIX 22 QR twin pushbutton, oval collar



Illuminability	Colour of lens	Front ring form/Legending	Order no.	
			Plastic front ring	Metal front ring
yes	opaque green/opaque red	flush/ none	1.30.241.001/22xx	1.30.241.021/2200
yes	opaque green/opaque red	flush/red 0; green I	1.30.241.002/22xx	1.30.241.022/2200
yes	opaque green/opaque red	protruding/none	1.30.241.401/22xx	1.30.241.421/2200
no	opaque green/opaque red	flush/ none	1.30.241.101/07xx	1.30.241.121/0700
no	opaque green/opaque red	flush/red 0; green I	1.30.241.102/07xx	1.30.241.122/0700
no	opaque green/opaque red	protruding/none	1.30.241.501/07xx	1.30.241.521/0700

Technical data see page 2 - 128

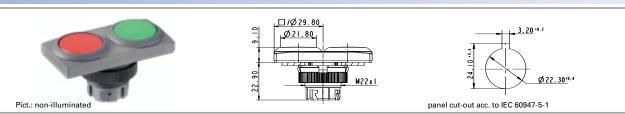
xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

Either the left-hand or right-hand contact block is actuated, depending on the button pressed. A third contact block arranged in the centre would be actuated by either button.

2



# RAFIX 22 QR twin pushbutton, rectangular collar



Illuminability Colour of lens Front ring form/Legending Order no. **Plastic front ring** Metal front ring flush/ none yes opaque green/opaque red 1.30.241.051/22xx 1.30.241.071/2200 yes opaque green/opaque red flush/red 0; green I 1.30.241.052/22xx 1.30.241.072/2200 opaque green/opaque red protruding/none 1.30.241.451/22xx 1.30.241.471/2200 yes no opaque green/opaque red flush/ none 1.30.241.151/07xx 1.30.241.171/0700 flush/red 0; green I no opaque green/opaque red 1.30.241.152/07xx 1.30.241.172/0700 opaque green/opaque red protruding/none 1.30.241.551/07xx 1.30.241.571/0700 no

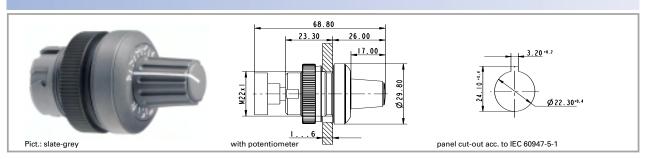
RAFIX 22 QR Technical data see page 2 - 128

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

Either the left-hand or right-hand contact block is actuated, depending on the button pressed. A third contact block arranged in the centre would be actuated by either button.



# **RAFIX 22 QR potentiometer drive**



## **Technical data**

#### **General information**

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

#### **Dimensions**

Length of collar see order block Width of collar see order block Overall height 26 mm Mounting depth according to potentiometer

Mounting hole 22.3 mm Key grid 50 x 30 mm Diameter of collar see order block

#### Mechanical design

Mounting ring nut **Mechanical characteristics** 

Robustness min. 100 N

#### Other specifications

Degree of protection from front side Storage temperature min. Storage temperature max. Resistance to constant environment

Resistance at variable environment

IP65 -40 °C +80 °C

according to IEC 600 68-2-3 and 2-30

according to

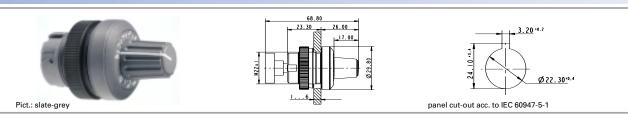
IEC 600 68-2-14 and 2-33

# **Accessories RAFIX 22 QR potentiometer drive**

Description	Photo	Order no.	Page
Fixing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25



# RAFIX 22 QR potentiometer drive, round collar



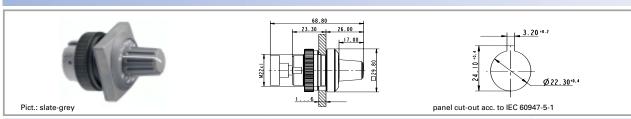
	· · · · · · · · · · · · · · · · · · ·	
Front ring	Colour of handle	Order no. complete
metal	opaque slate-grey	1.30.248.051/0000
plastic slate-grey	opaque slate-grey	1.30.248.001/0700
plastic silber	opaque slate-grey	1.30.248.001/0800
metal	opaque black	1.30.248.061/0000
plastic slate-grey	opaque black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

Technical data see page 2 - 132

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

## RAFIX 22 QR

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



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

Technical data see page 2 - 132

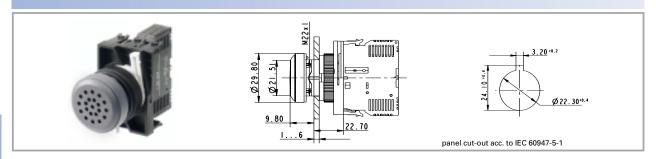
For potentiometers with 6 mm shaft diameter. For potentiometers with 50 mm shaft length. Potentiometer not included.

Control components

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



## **RAFIX 22 QR buzzer**



## **Technical data**

**General information** 

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

**Dimensions** 

Length of collar Width of collar Overall height Mounting depth Mounting hole Key grid Diameter of collar

see order block see order block 9.8 mm 56.4 mm 22.3 mm 50 x 30 mm

see order block

Mechanical design

Mounting

ring nut

**Acoustic characteristics** 

Sonic pressure, 1 m distance min.

min. see order block

**Electrical characteristics** 

Operating voltage DC Input current Sound frequency

see order block see order block see order block

**Mechanical characteristics** 

Robustness min. 100 N

Other specifications

Degree of protection
from front side
Storage temperature min.
Storage temperature max.
Resistance to constant
environment

IP65
-40 °C
+80 °C

Resistance at variable environment

+80 °C according to

IEC 600 68-2-3 and 2-30

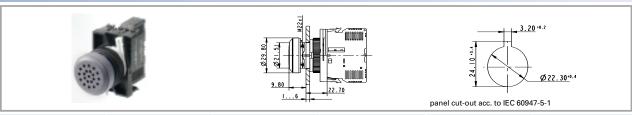
according to IEC 600 68-2-14 and 2-33

#### Accessories RAFIX 22 QR buzzer

Description	Photo	Order no.	Page
Fixing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25



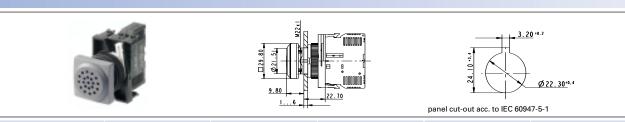
## **RAFIX 22 QR buzzer, round collar**



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

Technical data see page 2 - 134

## RAFIX 22 QR buzzer, square collar



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

Technical data see page 2 - 134



## **RAFIX 22 QR signal indicator**



2

#### **Technical data**

**General information**Form of lens

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

**Dimensions** 

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

Mechanical design

Mounting ring nut Illuminability yes

Electrical characteristics

Protection class II

Other specifications

Degree of protection from front side Ambient temp. operating

min. Ambient temp. operating

max. + Storage temperature min. -4

Storage temperature max.
Resistance to constant
environment

Resistance at variable environment

IP65

-25 °C

+70 °C -40 °C +80 °C

according to IEC 600 68-2-3 and 2-30

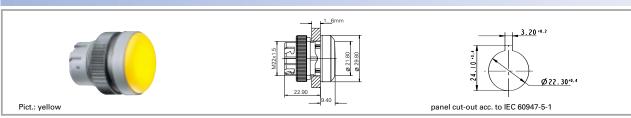
according to IEC 600 68-2-14 and 2-33

## Accessories RAFIX 22 QR signal indicator

De	escription	Photo	Order no.	Page
	AFIX 22 QR lamp socket assembly, screw terminals, ith coupling	W	1.71.213.001/0000	2 - 150
	AFIX 22 QR lamp socket assembly, screw terminals, ith coupling, diode and series resistor 130 V	W	1.71.213.004/0000	2 - 150
	AFIX 22 QR lamp socket assembly, cage clamp rminals, with coupling		1.71.214.001/0000	2 - 150
Fi	xing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25
Le	egend insert without legend		5.70.803.000/2000	



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



	· · · · · · · · · · · · · · · · · · ·	
Colour of lens	Form of collar	Order no. complete
transparent colourless	round	1.74.505.501/1000
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

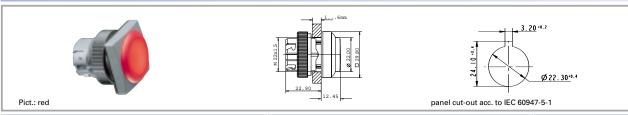
Technical data see page 2 - 136

#### Accessories:

Legend insert without legend: 5.70.803.000/2000

RAFIX 22 QR

# RAFIX 22 QR signal indicator, square collar



Colour of lens	Form of collar	Order no. complete
transparent colourless	square	1.74.505.551/1000
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

Technical data see page 2 - 136

#### Accessories:

Legend insert without legend: 5.70.803.000/2000



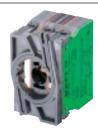
# RAFIX 22 QR contact blocks with silver contacts, screw terminals and cage clamp terminals







Silver contacts, 2 NC, screw terminals



Assembly

### **General data**

Most of the values specified apply to both screw terminal and cage clamp terminal versions. Any deviating values specific to the cage clamp version are given in parentheses ().

#### **Technical data**

**Dimensions** 

Length 39.5 mm
Width 10 mm
Height 46 mm
Mounting depth without

cable 56.4 mm

Mechanical design

Mounting snap on coupling and actuator
Contact system bridgecontact self

Contact materials
Contact arrangement

Cleaning
Ag
See order block

NC contact forcibly

actuated acc. to IEC 60947-5-1 yes

Terminals see order block
Terminal marking colour encoded
Robustness 100 N

Operating force approx. 5 N for 1 contact element

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 (2 x 0.08 ...

2.5) mm<sup>2</sup>

10 A

400 V/3.5 A

Wire range with wire end sleeves

eeves 2 x 0.75 ... 1.5 mm<sup>2</sup>

Electrica characteristics acc. to IEC 60947

Rated insulation voltage AC/DC

AC/DC 400 V Rated peak voltage 6000 V Rated operating current

I<sub>e</sub> AC 12

Rated operating current

I<sub>e</sub> AC-15 125 V/10 A, 250 V/6 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 Operating speed

3 mm

5 ... 1000 mm/s

Electrica characteristics acc. to IEC 61058

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

Lamp characteristics

Lamp socket BA 9 s

Other specifications

Operating life at 10 A/250 V AC Switching reliability at 24V/5mA DC

Approvals Robustness

Corresponding to CE

Shock resistance acc. to IEC 60068-2-27

Resistance to vibrations acc. to IEC 60068-2-6 Ambient temp. operating min.

Ambient temp. operating

max.
Storage temperature min.
Storage temperature max.
Flame class acc. to UL 94
Hot wire ignition acc.
to IEC 60695-2-1
Resistance to constant
environment
Resistance at variable

environment

50 g at 11 ms, amplitude half sinusoidal

ENEC, cURus (UL + CSA)

10 g at 40 ... 500 Hz

500000 (70000)

acc. IEC 60947-5-5

acc. EU-guideline N

 $10 \times 10^{-6}$ 

72/73

-25 °C

+70°C (+50°C) -40 °C +80 °C V 0

yes

IEC 600 68-2-3 and 2-30

IEC 600 68-2-14 and 2-33

Control components

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

RAFIX 22 QR

2 - 138



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

Description	Photo	Order no.	Page
Coupling with reference numbers 1-3-2	THE STATE OF THE S	5.05.510.935/0000	2 - 158
Coupling with reference numbers 1/2-5/6-3/4	iii iii	5.05.510.936/0000	2 - 158
Marking tag for contact blocks/lamp sockets with screw terminals	1	5.40.010.131/0000	2 - 160

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





Pict.: Silver contacts, 2 NC, screw terminals

Pict.: Silver contacts, 1 NC, clamp cage

Terminals	Contact arrangement	Contact materials	Lamp socket	Order no. complete
screw terminals	1 NC	Ag		5.00.100.139/0000
screw terminals	1 NO	Ag		5.00.100.140/0000
screw terminals	2 NC	Ag		5.00.100.141/0000
screw terminals	2 NO	Ag		5.00.100.142/0000
screw terminals	1 NC + 1 NO	Ag		5.00.100.143/0000
clamp cage	1 NC	Ag		5.00.100.144/0000
clamp cage	1 NO	Ag		5.00.100.145/0000

Technical data see page 2 - 138

Order no. complete

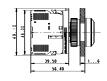


# RAFIX 22 QR contact block assembly, with coupling, without lamp socket, silver contacts





Contact arrangement



**Contact materials** 



Lamp socket

screw term

**Terminals** 

screw terminals 1 NC Ag 1.20.124.001/0000 screw terminals 1 NO 1.20.124.002/0000 Ag 1 NC, 1 NC 1.20.124.003/0000 screw terminals Ag screw terminals 1 NO , 1 NO Ag 1.20.124.004/0000 1.20.124.005/0000 screw terminals 1 NO, 1 NC Ag screw terminals 1 NC + 1 NO Ag 1.20.124.017/0000 screw terminals 1NC + 1NO, Ag 1.20.124.018/0000 1 NC + 1 NO screw terminals 2 NC 1.20.124.019/0000 Ag screw terminals 2 NO 1.20.124.020/0000 Ag 1.20.125.001/0000 clamp cage 1 NC Ag 1.20.125.002/0000 clamp cage 1 NO Ag clamp cage 1 NC, 1 NC Ag 1.20.125.003/0000 1.20.125.004/0000 clamp cage 1 NO, 1 NO Ag 1 NO, 1 NC 1.20.125.005/0000 clamp cage Ag

Technical data see page 2 - 138

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

**RAFIX** 

22 QR

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

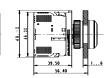
<sup>1</sup> NC + 1 NO = One contact block with double contacts (1 normally closed and 1 normally open) is mounted on the coupling.



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









	Ag	BA 9 s	1.20.124.021/0000
	_	BA 9 s	1.20.124.021/0000
1 NO	Ag		
		BA 9 s	1.20.124.022/0000
1 NC, 1 NC	Ag	BA 9 s	1.20.124.023/0000
1 NO , 1 NO	Ag	BA 9 s	1.20.124.024/0000
1 NO , 1 NC	Ag	BA 9 s	1.20.124.025/0000
1 NC + 1 NO	Ag	BA 9 s	1.20.124.027/0000
1 NC + 1 NO , 1 NC + 1 NO	Ag	BA 9 s	1.20.124.028/0000
2 NC	Ag	BA 9 s	1.20.124.029/0000
2 NO	Ag	BA 9 s	1.20.124.030/0000
1 NC	Ag	BA 9 s	1.20.125.021/0000
1 NO	Ag	BA 9 s	1.20.125.022/0000
1 NC, 1 NC	Ag	BA 9 s	1.20.125.023/0000
1 NO , 1 NO	Ag	BA 9 s	1.20.125.024/0000
1 NO , 1 NC	Ag	BA 9 s	1.20.125.025/0000
	1 NO , 1 NO 1 NO , 1 NC 1 NC + 1 NO 1 NC + 1 NO 2 NC 2 NO 1 NC 1 NC 1 NC	1 NO , 1 NO Ag 1 NO , 1 NC Ag 1 NC + 1 NO Ag 1 NC + 1 NO , Ag 1 NC + 1 NO Ag 2 NC Ag 2 NO Ag 1 NC Ag 1 NO Ag 1 NO Ag 1 NO Ag	Ag BA9s I NO, 1 NO Ag BA9s I NO, 1 NO Ag BA9s I NC+1 NO Ag BA9s I NC+1 NO, Ag BA9s I NC+1 NO I NC + 1 NO I NC Ag BA9s I NO Ag BA9s I NO Ag BA9s I NO Ag BA9s I NO, 1 NO Ag BA9s

Technical data see page 2 - 138

#### Accessories:

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

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

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

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

BA 9s (MBC/MCC) = Lamp socket snaps onto coupling centre.

2

**RAFIX** 

22 QR



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







Assembly: Au contacts, 1NC + 1NO

#### **General data**

Most of the values specified apply to both screw terminal and cage clamp terminal versions. Any deviating values specific to the cage clamp version are given in parentheses ().

#### **Technical data**

Dimensions Length 39.5 mm Width 10 mm Height 46 mm Mounting depth without 56.4 mm

Mechanical design

Mounting snap on coupling and

actuator

Contact system bridgecontact self

cleaning Au

see order block Contact arrangement

NC contact forcibly

Contact materials

actuated acc. to IEC 60947-5-1 yes

Terminals see order block Terminal marking colour encoded

Robustness 100 N

Operating force approx. 5 N for 1 contact

element

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>

Wire range with wire end

2 x 0.75 ... 1.5 mm<sup>2</sup> sleeves

**Electrical characteristics** 

Operating voltage AC/DC 0.01 ... 100 mA Operating current AC/DC

Lamp characteristics Lamp socket

Other specifications

Operating life

Switching reliability at 24V/5mA DC Robustness

Corresponding to CE

Shock resistance acc. to IEC 60068-2-27

Resistance to vibrations acc. to IEC 60068-2-6 Ambient temp. operating min.

Ambient temp. operating max.

Storage temperature min. Storage temperature max. Resistance to constant

environment

Resistance at variable environment

1 ... 42 V

BA9s

1 million at 10 mA/24 V

10 x 10<sup>-6</sup>

acc. IEC 60947-5-5 acc. EU-guideline N

72/73

50 g at 11 ms, amplitude half sinusoidal

10 g at 40 ... 500 Hz

-25 °C

+70 °C

-40 °C +80 °C

IEC 600 68-2-3 and 2-30

IEC 600 68-2-14 and 2-33

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

Description	Photo	Order no.	Page
Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V		1.90.060.133/0000	5 - 8
Neon lamp BA 9s (MBC/MCC), 220 V AC (red)	4	1.90.560.102/0000	5 - 9
LED BA 9s (MBC/MCC) superbright, white, 24 V		1.90.690.345/0000	5 - 20
Marking tag for contact blocks/lamp sockets with screw terminals		5.40.010.131/0000	2 - 160

Stock items are marked by bold printed order numbers. Control components



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





Pict · Au contacts 1 NC screw terminal

Pict.: Au contacts, 1 NO, clamp cage

Fict Au contacts, TNC, screw	terrilliais Fict Au	contacts, 1 NO, clamp cage		
Terminals	Contact arrangement	Contact materials	Lamp socket	Order no. complete
screw terminals	2 NC	Au		5.00.100.161/0000
screw terminals	2 NO	Au		5.00.100.162/0000
screw terminals	1 NC + 1 NO	Au		5.00.100.163/0000
screw terminals	1 NC	Au		5.00.100.164/0000
screw terminals	1 NO	Au		5.00.100.165/0000
clamp cage	1 NC	Au		5.00.100.159/0000
clamp cage	1 NO	Au		5.00.100.160/0000

Technical data see page 2 - 142

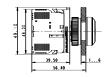
2



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









Pict.: Gold contacts, 1NC + 1NO

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

Technical data see page 2 - 142

Contact arrangement example (1 NO = 1 normally open contact, 1 NC = 1 normally closed contact)
1 NO, 1 NC = Two separate contact blocks are mounted on the coupling: One with a normally open contact and one with a normally closed contact

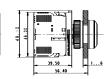
<sup>1</sup> NC + 1 NO = One contact block with double contacts (1 normally closed and 1 normally open) is mounted on the coupling.



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









Pict.: Lamp socket with cage clamp terminals

Terminals	Contact arrangement	Contact materials	Lamp socket	Order no. complete
Terrinidis	Contact arrangement	Contact materials	Lamp Socket	Order no. complete
screw terminals	1 NC	Au	BA 9 s	1.20.124.121/0000
screw terminals	1 NO	Au	BA 9 s	1.20.124.122/0000
screw terminals	1 NC, 1 NC	Au	BA 9 s	1.20.124.123/0000
screw terminals	1 NO , 1 NO	Au	BA 9 s	1.20.124.124/0000
screw terminals	1 NO , 1 NC	Au	BA 9 s	1.20.124.125/0000
screw terminals	1 NC + 1 NO	Au	BA 9 s	1.20.124.127/0000
screw terminals	1 NC + 1 NO , 1 NC + 1 NO	Au	BA 9 s	1.20.124.128/0000
screw terminals	2 NC	Au	BA 9 s	1.20.124.129/0000
screw terminals	2 NO	Au	BA 9 s	1.20.124.130/0000
clamp cage	1 NC	Au	BA 9 s	1.20.125.121/0000
-1	1 NO	Δ	DA 0 -	1 00 105 100/0000
clamp cage	1 NO	Au	BA 9 s	1.20.125.122/0000
clamp cage	1 NC, 1 NC	Au	BA 9 s	1.20.125.123/0000
clamp cago	1 NO 1 NO	Au	BA 9 s	1 20 125 124/0000
clamp cage	1 NO , 1 NO	Au	DASS	1.20.125.124/0000
clamp cage	1 NO , 1 NC	Au	BA 9 s	1.20.125.125/0000

Technical data see page 2 - 142

#### Accessories:

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

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

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

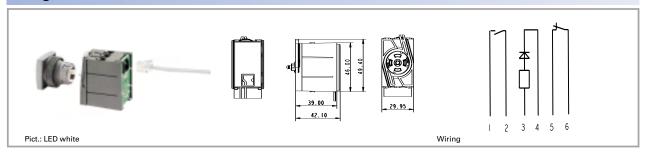
1 NC + 1 NO = One contact block with double contacts (1 normally closed and 1 normally open) is mounted on the coupling.

BA 9s (MBC/MCC) = Lamp socket snaps onto coupling centre.

2



### RAFIX 22 QR Contact blocks with coupling, gold contacts, RJ 12 connector, integrated LED



#### **Technical data**

#### **Dimensions**

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

#### Mechanical design

Mounting snap on actuator Contact system bridgecontact self cleaning Contact materials Αu Contact arrangement see order block

NC contact forcibly actuated acc. to IEC 60947-5-1 yes Terminals **RJ-12** Terminal marking RJ-12 plug Mounting grid  $30 \times 50$ Robustness 100 N

#### **Electrical characteristics**

Operating voltage AC/DC 24 V

Operating current AC/DC 0.01 ... 50 mA Other specifications Operating life

Switching reliability at 24V/5mA DC

Ambient temp, operating

min.

Ambient temp. operating without LED max. Ambient temp. operating

with LED max.

Storage temperature min. Storage temperature max.

Integrated LED LED colour

Resistance to constant environment

Resistance at variable

environment

1000000 at 50 mA/24 V DC

10 x 10<sup>-6</sup>

-25 °C

+70 °C

+50 °C -30 °C

+80 °C

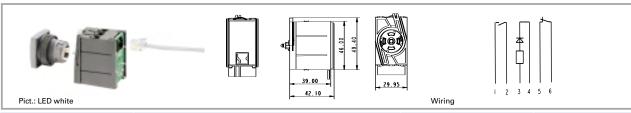
see order block see order block

IEC 600 68-2-3 and 2-30

IEC 600 68-2-14 and 2-33



# RAFIX 22 QR Contact block with coupling, gold contacts, RJ 12 connector, integrated LED



Tital. LED Willie				
Contact arrangement	Operating voltage AC/DC	Integrated LED	LED colour	Order no. complete
1 NC	24 V	no		1.20.128.001/0000
1 NC	24 V	yes	white	1.20.128.011/0000
1 NC	24 V	yes	red	1.20.128.021/0000
1 NC	24 V	yes	yellow	1.20.128.031/0000
1 NC	24 V	yes	green	1.20.128.041/0000
1 NC	24 V	yes	blue	1.20.128.051/0000
1 NO	24 V	no		1.20.128.002/0000
1 NO	24 V	yes	white	1.20.128.012/0000
1 NO	24 V	yes	red	1.20.128.022/0000
1 NO	24 V	yes	yellow	1.20.128.032/0000
1 NO	24 V	yes	green	1.20.128.042/0000
1 NO	24 V	yes	blue	1.20.128.052/0000
1 NC + 1 NO	24 V	no		1.20.128.003/0000
1 NC + 1 NO	24 V	yes	white	1.20.128.013/0000
1 NC + 1 NO	24 V	yes	red	1.20.128.023/0000
1 NC + 1 NO	24 V	yes	yellow	1.20.128.033/0000
1 NC + 1 NO	24 V	yes	green	1.20.128.043/0000
1 NC + 1 NO	24 V	yes	blue	1.20.128.053/0000

Technical data see page 2 - 146

Other contact arrangement versions available on request.

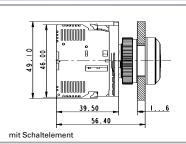
2



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







2

**RAFIX** 

22 QR

#### **Technical data**

**Dimensions** 

Length 46 mm
Width 10 mm
Height 39.5 mm
Mounting depth without

cable 56.4 mm

Mechanical design

Mounting

Terminals actuator see order block
Terminal marking X1 = anode, X2 = cathode

BA9s

2 W

see order block

see order block

snap on coupling and

Kennwerte Lampenfassung

Lamp socket
Operating voltage AC/DC

Operating voltage AC/DC Lamp power max.

Lamp voltage

Danauladian

Other specifications

Approvals Robustness Shock resistance acc. to IEC 60068-2-27

Resistance to vibrations acc. to IEC 60068-2-6 Resistance to constant environment Resistance at variable environment

Ambient temp. operating min.

Ambient temp. operating max.

Storage temperature min. Storage temperature max. Flame class acc. to UL 94 Hot wire ignition acc.

to IEC 60695-2-1

see order block acc. IEC 60947-5-5

50 g at 11 ms, amplitude half sinusoidal

10 g at 40 ... 500 Hz

IEC 600 68-2-3 and 2-30

IEC 600 68-2-14 and 2-33

-25 °C

+70 °C -40 °C

+80 °C V 0

yes

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

Description	Photo	Order no.	Page
Filament lamp, BA 9s base (MBC/MCC), 12 - 15 V		1.90.060.132/0000	5 - 8
Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V		1.90.060.133/0000	5 - 8
Filament lamp, BA 9s base (MBC/MCC), 110 - 130 V		1.90.060.137/0000	5 - 8
Neon lamp BA 9s (MBC/MCC), 220 V AC (red)	<b>←</b>	1.90.560.102/0000	5 - 9
LED BA 9s (MBC/MCC) superbright, red, 24 V		1.90.690.341/0000	5 - 20
LED BA 9s (MBC/MCC) superbright, green, 24 V		1.90.690.342/0000	5 - 20
LED BA 9s (MBC/MCC) superbright, yellow, 24 V		1.90.690.343/0000	5 - 20

2 - 148

Stock items are marked by bold printed order numbers.



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

Description	Photo	Order no.	Page
LED BA 9s (MBC/MCC) superbright, blue, 24 V		1.90.690.344/0000	5 - 20
LED BA 9s (MBC/MCC) superbright, white, 24 V		1.90.690.345/0000	5 - 20
Coupling with reference numbers 1-3-2	TIT	5.05.510.935/0000	2 - 158
Coupling with reference numbers 1/2-5/6-3/4	III III	5.05.510.936/0000	2 - 158
Marking tag for contact blocks/lamp sockets with screw terminals	4	5.40.010.131/0000	2 - 160

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



RAFIX 22 QR

Terminals	Diode and resistor	Approvals	Lamp socket	Operating v oltage AC/DC	Lamp voltage	Order no. complete
screw terminals	no	ENEC 10/15; ULc	BA 9 s	6 250 V	6 250 V	5.00.070.074/0000
screw terminals	yes	ENEC 10/15; ULc	BA 9 s	250 V	130 V	5.00.070.080/0000
clamp cage	no	ENEC 10/15; ULc	BA 9 sBA 9 s	6 250 V	6 250 V	5.00.070.078/0000

Technical data see page 2 - 148



# RAFIX 22 QR lamp socket assembly, with coupling



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

Technical data see page 2 - 148



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



2

## **Technical data**

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

**Mechanical design** Mounting

Diode and resistor LED colour Terminals Terminal marking

Lamp characteristics

Operating voltage Max. current, I<sub>F</sub>

snap on coupling and actuator see order block see order block screw terminals X1 = anode, X2 = cathode

see order block see order block Other specifications

Approvals Robustness Shock resistance acc. to IEC 60068-2-27

Resistance to vibrations acc. to IEC 60068-2-6 Resistance to constant environment Resistance at variable environment

Ambient temp. operating min.

Ambient temp. operating max.
Storage temperature min.
Storage temperature max.
Flame class acc. to UL 94
Hot wire ignition acc.
to IEC 60695-2-1

ENEC 10/15; ULc acc. IEC 60947-5-5

50 g at 11 ms, amplitude half sinusoidal

10 g at 40 ... 500 Hz

IEC 600 68-2-3 and 2-30

IEC 600 68-2-14 and 2-33

-20 °C

+65 °C -40 °C +80 °C V 0

yes

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

Description	Photo	Order no.	Page
Coupling with reference numbers 1-3-2	iii ii	5.05.510.935/0000	2 - 158
Coupling with reference numbers 1/2-5/6-3/4	iii iii	5.05.510.936/0000	2 - 158
Marking tag for contact blocks/lamp sockets with screw terminals	1	5.40.010.131/0000	2 - 160



# RAFIX 22 QR lamp socket with integrated red LED, without coupling



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

Technical data see page 2 - 152

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## **RAFIX 22 QR special accessories**





light grey/dark grey

2

## **Accessories RAFIX 22 QR special accessories**

Description	Photo	Order no.	Page
Fixing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25

RAFIX 22 QR

# **Housings for flush pushbuttons**





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



## **Lenses for flush pushbuttons**



Pict.: yellow

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

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# **Front ring**



Pict.: metal

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

#### RAFIX 22 QR

# RAFIX 22 QR plastic front ring with protective cap



Pict.: slate-grey

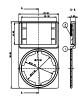
Short text	Feature 1	Feature 2	Order no.
Front ring, plastic with thermoflex protective cap, slate grey	slate- grey		5.05.004.914/0700
Front ring, plastic with thermoflex protective cap, silver grey	silver- grey		5.05.004.914/0800

# 2

## Label holder







Short text	Feature 1	Feature 2	Order no.
Label holder, round collar, with adhesive tape and release liner on back			5.07.620.010/0000
Label holder, square collar, with adhesive tape and release liner on back			5.07.620.011/0000

# Legend label to clip into label holder 5.07.620.xxx

EIN

RAFIX 22 QR

Short text	Feature 1	Feature 2	Order no.
Label for label holder, without legend, 16 x 28 x 0.9 mm			5.73.110.000/0000

Legending available on request.



# Coupling





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

# Blanking cap





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

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## Ring nut





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

# Lamp tester



RAFIX 22 QR

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

# Protective cover, suitable for pushbuttons with flush lens





Pict.: mounted on pushbutton

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

Control components

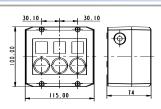
# **Marking tag**



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

## **Insulating housing IP65 for RAFIX 22 QR**





RAFIX 22 QR

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

## Accessories:

Label sheet for housings: 5.40.451.283/0000

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



## **Emergency stop label plate**



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

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

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