



#### **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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RAFIX

22 QR



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RAFIX 22 QR

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## **RAFIX 22 QR**





# 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.

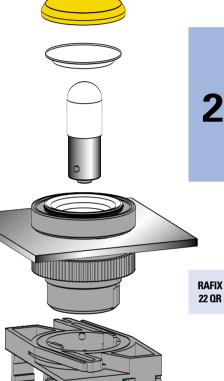




The components feature a removable locating lug. If installed without locating lug, the ring nut with claw can

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).





# 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.

## 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).

## Assembly

Screw terminals

#### Cage clamp terminals

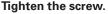


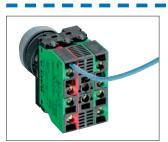


Insert the wire.









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.



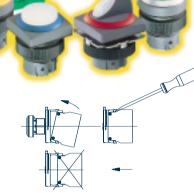
The RAFIX 22 QR control component range meets all the technical requirements and current standards for

control units. The system is of modular design. Actuators, contact blocks and lamp sockets can be combined freely. This means that you may implement modifications of design or configuration even at the last minute. An additional positive effect is the reduction of stockholding costs.

## Sequence of assembly/disassembly at screw 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 axis.
- Insert the lamp or LED into the lamp socket.

Annrovale

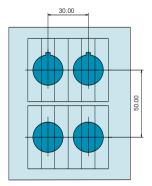


Assembly

Disassembly

– approved 🔿 – pending

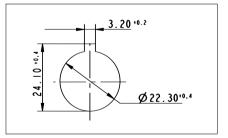
Approvais				•	$\phi = approved, \phi = pending$	
Part no.	BG zert.	VDE 0660	10/15	ULc	GL	D
1.20 124	0	0	•	•	0	R. 21
1.20 125	0	0	•	•	0	
1.30 243	0			•		
1.71 213		0	•	•	0	
1.71 214		0	•	•	0	



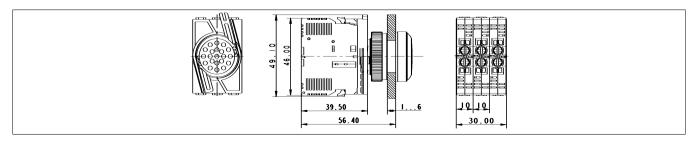
## Panel cut-out according to IEC 60947-5-1

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).

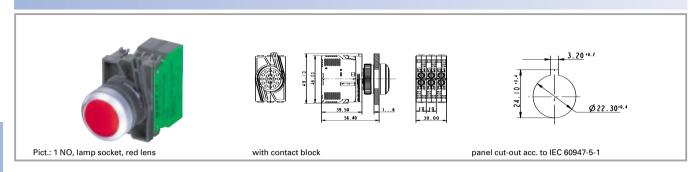


## **Dimensioned drawing**





## **RAFIX 22 QR control component assemblies**



2

## **Technical data**

**General information** Form of lens Colour of lens Colout of front ring Form of collar

#### Dimensions

Key grid Diameter of collar Overall height Mounting depth Mounting hole

Mechanical design Mounting Contact function Illuminability Contact arrangement

### Mechanical characteristics

Operating force max.

Robustness min.

see order block see order block see order block round

50 x 30 mm 29.8 mm see order block 56.4 mm 22.3 mm

ring nut see order block see order block see order block

approx. 5 N for 1 switching element 100 N

#### **Electrical characteristics** Protection class

**Other specifications** Degree of protection

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

Resistance at variable environment

Ambient temp. operating min. Ambient temp. operating max. Approvals

## П

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

-25 °C

+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>4</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

Pict.: 1 NO, lamp socket, r	ed lens	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array} \\ \begin{array}{c} \end{array}\\ \end{array} \\ \begin{array}{c} \end{array}\\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array}\\ \end{array} \\ \begin{array}{c} \end{array}\\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}\\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}$ \begin{array}{c} \end{array} \end{array} \left \begin{array}{c} \end{array} \left \end{array} \left \end{array} \left \begin{array}{c} \end{array} \left \end{array} \left \end{array} \left \begin{array}{c} \end{array} \left \end{array} \left \end{array} \left \end{array} \left \end{array} \left \begin{array}{c} \end{array} \left \end{array}			
Contact arrangement         Contact function         Colour of lens         Order no. complete         Order no. single parts					ingle 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: **1.90.690.343/0000** LED BA 9s (MBC/MCC) superbright, blue, 24 V: **1.90.690.345/0000** LED BA 9s (MBC/MCC) superbright, white, 24 V: **1.90.690.345/0000** LED BA 9s (MBC/MCC) superbright, white, 24 V: **1.90.690.345/0000** 

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

Pict.: Emergency stop + 11	NC	panel cut-out acc. to IEC 60947-5-1			Ø 22.30**.4
Contact arrangement	Contact function	Colour of lens	Order no. complete	Order no. s	ingle 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:

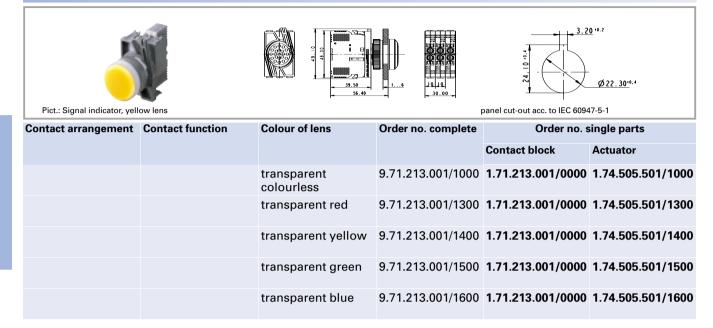
Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend "NOT-AUS": 5.76.204.101/0400

Emergency stop label, yellow, round 60 mm, rigid PVC, with legend "EMERGENCY-STOP/ARRET D'URGENCE": 5.76.207.002/0400

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



### RAFIX 22 QR assembly: Signal indicator and lamp socket



Technical data see page 2 - 98

#### Accessories:

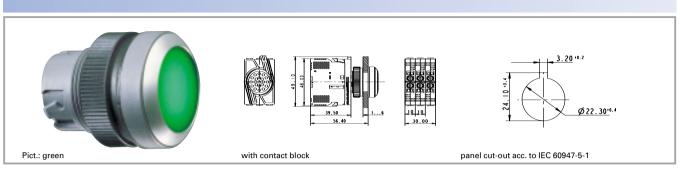
Filament lamp, BA 9s base (MBC/MCC), 12 - 15 V: **1.90.060.132/0000** Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V: **1.90.060.133/0000** Filament lamp, BA 9s base (MBC/MCC), 110 - 130 V: **1.90.060.137/0000** LED BA 9s (MBC/MCC) superbright, red, 24 V: **1.90.060.341/0000** LED BA 9s (MBC/MCC) superbright, green, 24 V: **1.90.0690.342/0000** LED BA 9s (MBC/MCC) superbright, yellow, 24 V: **1.90.0690.343/0000** LED BA 9s (MBC/MCC) superbright, blue, 24 V: **1.90.0690.343/0000** LED BA 9s (MBC/MCC) superbright, white, 24 V: **1.90.0690.345/0000** LED BA 9s (MBC/MCC) superbright, white, 24 V: **1.90.0690.345/0000** LED BA 9s (MBC/MCC) superbright, white, 24 V: **1.90.0690.345/0000** 

RAFIX

22 QR



## **RAFIX 22 QR pushbutton**



# 2

RAFIX

22 QR

# Technical data

**General information** Form of lens Colour of lens Colout of front ring Form of collar

#### Dimensions

Length of collar Width of collar Overall height Mounting depth with contact block without cable Mounting hole Key grid Diameter of collar

Mechanical design Mounting Contact function Illuminability see order block see order block see order block see order block

see order block see order block see order block

56.4 mm 22.3 mm 50 x 30 mm see order block

ring nut see order block see order block **Mechanical characteristics** Operating travel Operating force max.

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

4 mm approx. 5 N for 1 switching element 100 N

1 million momentary/ 0.5 million latching

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 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	(j)	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



#### **Accessories RAFIX 22 QR pushbutton**



Fixing spanner for ring nut and front ring

 Photo
 Order no.
 Page

 5.05.800.062/0000
 5 - 25

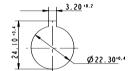
 5.07.620.010/0000
 2 - 157

Label holder, round collar, with adhesive tape and release liner on back

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





Pict.: green				panel cut-out acc. to IEC 6	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	1.30.240.001/10xx	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.



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

Pict.: red			16mm	panel cut-out acc. to IEC	
Illuminability	Colour of lens	Plastic front ring	momentary Metallized front ring	Plastic front ring	o. latching 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
yes	transparent red	1.30.240.201/13xx	1.30.240.221/1300	1.30.240.211/13xx	1.30.240.231/1300
yes	transparent yellow	1.30.240.201/14xx	1.30.240.221/1400	1.30.240.211/14xx	1.30.240.231/1400
yes	transparent green	1.30.240.201/15xx	1.30.240.221/1500	1.30.240.211/15xx	1.30.240.231/1500
yes	transparent blue	1.30.240.201/16xx	1.30.240.221/1600	1.30.240.211/16xx	1.30.240.231/1600
no	opaque black	1.30.240.301/01xx	1.30.240.321/0100	1.30.240.311/01xx	1.30.240.331/0100
no	opaque white	1.30.240.301/02xx	1.30.240.321/0200	1.30.240.311/02xx	1.30.240.331/0200
no	opaque red	1.30.240.301/03xx	1.30.240.321/0300	1.30.240.311/03xx	1.30.240.331/0300
no	opaque yellow	1.30.240.301/04xx	1.30.240.321/0400	1.30.240.311/04xx	1.30.240.331/0400
no	opaque green	1.30.240.301/05xx	1.30.240.321/0500	1.30.240.311/05xx	1.30.240.331/0500
no	opaque blue	1.30.240.301/06xx	1.30.240.321/0600	1.30.240.311/06xx	1.30.240.331/0600
no	opaque slate-grey	1.30.240.301/07xx	1.30.240.321/0700	1.30.240.311/07xx	1.30.240.331/0700

Technical data see page 2 - 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**

Pict.: red		9 IVEZW	2.90 12.60	panel cut-out acc. to IEC 6	<u>3.20</u> ••.2 Ø <u>22.30</u> •.4 50947-5-1
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	1.30.240.401/10xx	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 - 105



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

Pict.: red		91VCLW 922.90 9.40		panel cut-out acc. to IEC	<u>3.20</u> <sup>10.2</sup> Ø <u>22.30</u> <sup>10.4</sup> 60947-5-1
Illuminability	Colour of lens	Order no.	momentary	Order n	o. 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
yes	transparent red	1.30.240.051/13xx	1.30.240.071/1300	1.30.240.061/13xx	1.30.240.081/1300
yes	transparent yellow	1.30.240.051/14xx	1.30.240.071/1400	1.30.240.061/14xx	1.30.240.081/1400
yes	transparent green	1.30.240.051/15xx	1.30.240.071/1500	1.30.240.061/15xx	1.30.240.081/1500
yes	transparent blue	1.30.240.051/16xx	1.30.240.071/1600	1.30.240.061/16xx	1.30.240.081/1600
no	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
no	opaque red	1.30.240.151/03xx	1.30.240.171/0300	1.30.240.161/03xx	1.30.240.181/0300
no	opaque yellow	1.30.240.151/04xx	1.30.240.171/0400	1.30.240.161/04xx	1.30.240.181/0400
no	opaque green	1.30.240.151/05xx	1.30.240.171/0500	1.30.240.161/05xx	1.30.240.181/0500
no	opaque blue	1.30.240.151/06xx	1.30.240.171/0600	1.30.240.161/06xx	1.30.240.181/0600
no	opaque slate-grey	1.30.240.151/07xx	1.30.240.171/0700	1.30.240.161/07xx	1.30.240.181/0700

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		<u>5 22.90</u> 12.45 panel cut-out acc. to IEC 60947-5-1			ø 22. 30 <sup>.0.4</sup> 60947-5-1
Illuminability	Colour of lens		momentary		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.



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

Pict.: green	green		panel cut-out acc. to IEC 60947-5-1		
Illuminability	Colour of lens	Order no.	momentary	Order no	. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent white	1.30.240.451/10xx	1.30.240.471/1000		
yes	transparent red	1.30.240.451/13xx	1.30.240.471/1300		
yes	transparent yellow	1.30.240.451/14xx	1.30.240.471/1400		
yes	transparent green	1.30.240.451/15xx	1.30.240.471/1500		
yes	transparent blue	1.30.240.451/16xx	1.30.240.471/1600		
no	opaque black	1.30.240.551/01xx	1.30.240.571/0100		
no	opaque white	1.30.240.551/02xx	1.30.240.571/0200		
no	opaque red	1.30.240.551/03xx	1.30.240.571/0300		
no	opaque yellow	1.30.240.551/04xx	1.30.240.571/0400		
no	opaque green	1.30.240.551/05xx	1.30.240.571/0500		
no	opaque blue	1.30.240.551/06xx	1.30.240.571/0600		
no	opaque slate-grey	1.30.240.551/07xx	1.30.240.571/0700		

Technical data see page 2 - 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 selector switch**



## 2

## **General data**

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

#### **Technical data**

**General information** Form of handle Colour of lens Colout of front ring Form of collar

## Dimensions

Length of collar Width of collar Overall height Mounting depth with contact block without cable Mounting hole Key grid Diameter of collar

Mechanical design

Mounting Contact function Illuminability Rotating angle see order block white see order block see order block

see order block see order block 22.2 mm

56.4 mm 22.3 mm 50 x 30 mm see order block

ring nut see order block see order block see order block

#### Mechanical characteristics

Operating force max. Torque max.

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

approx. 5 N for 1 switching element 2 Nm

## II

0.5 million

IP65

-27 °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 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	S.	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		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	Ŵ	1.20.124.128/0000	2 - 145
Contact block with coupling, gold contacts, RJ 12 connector, 1 NC + 1 NO, white LED	1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	1.20.128.013/0000	2 - 147

Control components

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



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**

Piet - Front ris	g, silver grey, non-illuminated			→ → → → → → → → → → → → → → → → → → →		
	Contact function	Rotating angle	Drehwinkel	panel cut-out acc. to IEC 60947-5-1 Order no.		
				Plastic front ring	Metal front ring	
yes	momentary	1 x 40°	$\triangleright$	1.30.242.001/22xx	1.30.242.002/2200	
yes	momentary	2 x 40°	$\checkmark$	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		1.30.242.101/22xx	1.30.242.102/2200	
yes	latching	1 x 90°, form V		1.30.242.201/22xx	1.30.242.202/2200	
yes	latching	2 x 60°	$\diamond$	1.30.242.301/22xx	1.30.242.302/2200	
yes	latching	2 x 90°		1.30.242.126/22xx	1.30.242.127/2200	
no	momentary	1 x 40°		1.30.242.501/02xx	1.30.242.502/0200	
no	momentary	2 x 40°	$\checkmark$	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°	2	1.30.242.926/02xx	1.30.242.927/0200	
no	latching	1 x 90°, form L		1.30.242.601/02xx	1.30.242.602/0200	
no	latching	1 x 90°, form V		1.30.242.701/02xx	1.30.242.702/0200	
no	latching	2 x 60°	$\langle$	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, 1.30.252.526/0208, 1.30.252.601/0208, 1.30.252.701/0208, 1.30.252.801/0208





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

Pict.: Front ring, metallized, illuminated		9100 22.90 22.20		panel cut-out acc. to IEC 60947-5-1	
Illuminability	Contact function	Rotating angle	Drehwinkel	Orc	ler no.
				Plastic front ring	Metal front ring
yes	momentary	1 x 40°	Ď	1.30.242.011/22xx	1.30.242.012/2200
yes	momentary	2 x 40°	$\checkmark$	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	Ľ,	1.30.242.111/22xx	1.30.242.112/2200
yes	latching	1 x 90°, form V		1.30.242.211/22xx	1.30.242.212/2200
yes	latching	2 x 60°	$\bigcirc$	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°	Ď	1.30.242.511/02xx	1.30.242.512/0200
no	momentary	2 x 40°	$\checkmark$	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	Ď,	1.30.242.611/02xx	1.30.242.612/0200
no	latching	1 x 90°, form V		1.30.242.711/02xx	1.30.242.712/0200
no	latching	2 x 60°	$\bigcirc$	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 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.



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

		1 6mm		<u>3.20</u> •0.2	
	g, non-illuminated Contact function	Rotating angle	 Drehwinkel	panel cut-out acc. to IEC 60947-5-1 Order no.	
mannabiirty	oontact function		Dienwinker	Plastic front ring	Metal front ring
yes	momentary	1 x 40°	$\geq$	1.30.242.051/22xx	1.30.242.052/2200
yes	momentary	2 x 40°	$\checkmark$	1.30.242.076/22xx	1.30.242.077/2200
yes	latching 1 x 90° and momentary 1 x 40°	$1x90^\circ$ and $1x40^\circ$	2	1.30.242.476/22xx	1.30.242.477/2200
yes	latching	1 x 90°, form L		1.30.242.151/22xx	1.30.242.152/2200
yes	latching	1 x 90°, form V		1.30.242.251/22xx	1.30.242.252/2200
yes	latching	2 × 60°	$\bigcirc$	1.30.242.351/22xx	1.30.242.352/2200
yes	latching	2 × 90°	2	1.30.242.176/22xx	1.30.242.177/2200
no	momentary	1 x 40°	Ď	1.30.242.551/02xx	1.30.242.552/0200
no	momentary	2 × 40°	$\stackrel{\circ}{\checkmark}$	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°		1.30.242.976/02xx	1.30.242.977/0200
no	latching	1 x 90°, form L		1.30.242.651/02xx	1.30.242.652/0200
no	latching	1 x 90°, form V		1.30.242.751/02xx	1.30.242.752/0200
no	latching	2 × 60°	$\bigcirc$	1.30.242.851/02xx	1.30.242.852/0200
no	latching	2 × 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



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

Pict.: Front ring, black, non-illuminated		9.10 22.90 22.20		panel cut-out acc. to IEC 60947-5-1	
Illuminability	Contact function	Rotating angle	Drehwinkel	Orc	ler no.
				Plastic front ring	Metal front ring
yes	momentary	1 x 40°	Ď	1.30.242.061/22xx	1.30.242.062/2200
yes	momentary	2 x 40°	$\checkmark$	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	Ď,	1.30.242.161/22xx	1.30.242.162/2200
yes	latching	1 x 90°, form V		1.30.242.261/22xx	1.30.242.262/2200
yes	latching	2 x 60°	$\bigcirc$	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°	$\triangleright$	1.30.242.561/02xx	1.30.242.562/0200
no	momentary	2 x 40°	$\stackrel{\circ}{\checkmark}$	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°	2	1.30.242.986/02xx	1.30.242.987/0200
no	latching	1 x 90°, form L	Ľ,	1.30.242.661/02xx	1.30.242.662/0200
no	latching	1 x 90°, form V		1.30.242.761/02xx	1.30.242.762/0200
no	latching	2 x 60°	$\bigcirc$	1.30.242.861/02xx	1.30.242.862/0200
no	latching	2 x 90°	2	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 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.



#### **RAFIX 22 QR keylock switch**



RAFIX

22 QR

## Technical data

**General information** Form of lens Colout of front ring Form of collar

#### Dimensions

Length of collar Width of collar Overall height Mounting depth with contact block without cable Mounting hole Key grid Diameter of collar

#### **Mechanical design**

Mounting Contact function Illuminability Lock Wafers Lock type Main key Symmetric key Rotating angle Key removal position see order block see order block see order block

see order block see order block 30.6 mm

56.4 mm 22.3 mm 50 x 30 mm see order block

ring nut see order block no 4 455 no no see order block see order block Mechanical characteristics Operating force max.

Torque max.

**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

approx. 5 N for 1 switching element 2 Nm

П

0.3 million momentary / 50000 latching

IP65

-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	<b>S</b>	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	1- (i) - (i)	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

		22.90 9.10 30.60		ganel cut-out acc. to IEC 60947-5-1		
Contact function	Rotating angle	Key removal position	Rotating	Order no.		
			angle	Plastic front ring	Metal front ring	
momentary	1 x 40°	0	Ď	1.30.245.001/xxxx	1.30.245.002/0000	
momentary	2 x 40°	0	$\checkmark$	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		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		1.30.245.201/xxxx	1.30.245.202/0000	
latching	1 x 90°, form L	0+1		1.30.245.221/xxxx	1.30.245.222/0000	
latching	1 x 90°, form V	0		1.30.245.301/xxxx	1.30.245.302/0000	
latching	1 x 90°, form V	0+1		1.30.245.321/xxxx	1.30.245.322/0000	
latching	2 x 60°	0+1+2	$\bigcirc$	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**

		22.90 9.10	22.90 9.10 30.60		panel cut-out acc. to IEC 60947-5-1	
Contact function	Rotating angle	Key removal position	Rotating angle	Ord	er no.	
			angle	Plastic front ring	Metal front ring	
momentary	1 x 40°	0	$\triangleright$	1.30.245.051/xxxx	1.30.245.052/0000	
momentary	2 x 40°	0	$\checkmark$	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		1.30.245.251/xxxx	1.30.245.252/0000	
latching	1 x 90°, form L	0+1		1.30.245.271/xxxx	1.30.245.272/0000	
latching	1 x 90°, form V	0		1.30.245.351/xxxx	1.30.245.352/0000	
latching	1 x 90°, form V	0+1		1.30.245.371/xxxx	1.30.245.372/0000	
latching	2 x 60°	0+1+2	$\bigcirc$	1.30.245.781/xxxx	1.30.245.782/0000	
latching	2 x 90°	0		1.30.245.451/xxxx	1.30.245.452/0000	
latching	2 x 90°	0+1+2		1.30.245.481/xxxx	1.30.245.482/0000	

Technical data see page 2 - 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.  $2 \times 90$  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.

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



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



RAFIX

22 QR

## Technical data

**General information** Form of lens Colour of mushroom Colout of front ring Form of collar

#### Dimensions

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

#### Mechanical design Mounting Contact function Illuminability

mushroom formed see order block see order block see order block

see order block see order block 20.10 mm 56.4 mm 22.3 mm 50 x 30 mm see order block

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

1000000

Ш

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	<b>S</b>	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>()</b>	1.20.125.102/0000	2 - 144
Contact block with coupling, gold contacts, RJ 12 connector, 1 NO, without LED	1- <b>1</b>	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".



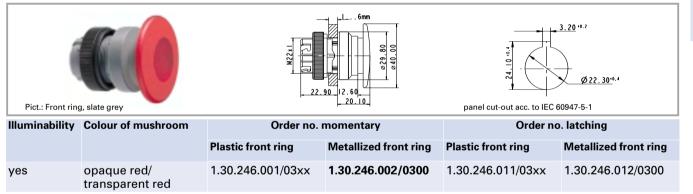
## RAFIX 22 QR mushroom-headed pushbutton 40 mm, round collar

Pict.: Front ring, metallized		- 22.	72.90 12.60 22.90 12.60		panel cut-out acc. to IEC 60947-5-1	
Illuminability	Colour of mushroom	Order no.	momentary	Order no. latching		
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring	
		-			motanizou nont mig	
no	opaque black	1.30.246.501/01xx	1.30.246.502/0100	1.30.246.511/01xx	1.30.246.512/0100	

Technical data see page 2 - 120

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

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

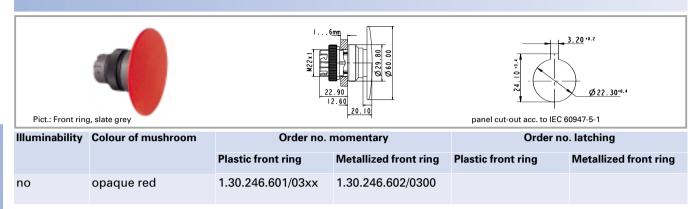


Technical data see page 2 - 120

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



2

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

Pict.: Front ring, slate grey			panel cut-out acc. to IEC 60947-5-1		
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

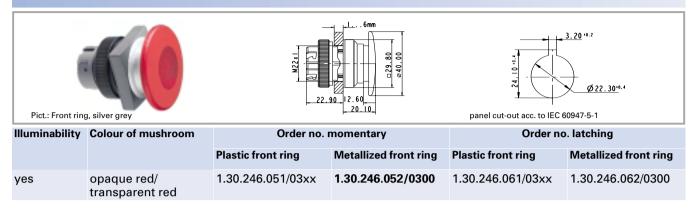
xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

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

RAFIX



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

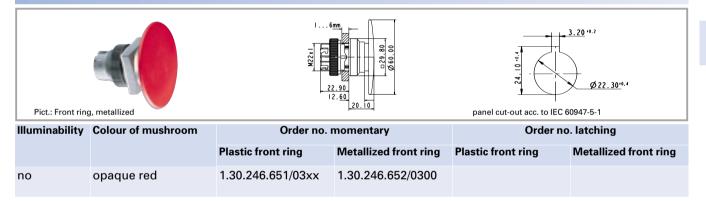


Technical data see page 2 - 120

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



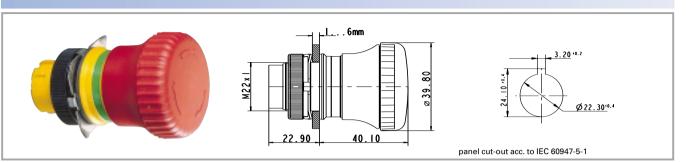
Technical data see page 2 - 120

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



RAFIX

22 QR

#### **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 Colour of lens

#### Dimensions

Form of collar

Overall height Mounting depth with contact block without cable Mounting hole Key grid Diameter of collar

#### Mechanical design

Mounting Contact function Illuminability

#### Mechanical characteristics Operating force max.

approx. 5 N for 1 switching element

see order block

mushroom formed

see order block

see order block

round

56.4 mm

22.3 mm

39.8 mm

ring nut

latching

50 x 30 mm

Robustness min. Robustness

environment

#### 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 acc. IEC 60947-5-5

see	order	block
-----	-------	-------

#### IP65

-25 °C +70 °C

100 N

-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	ST.	1.20.124.001/0000	2 - 140
RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 2 NC	<b>S</b>	1.20.124.019/0000	2 - 140
Contact block with coupling, gold contacts, RJ 12 connector, 1 NC, without LED	1- <b>(</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

**Control components** 

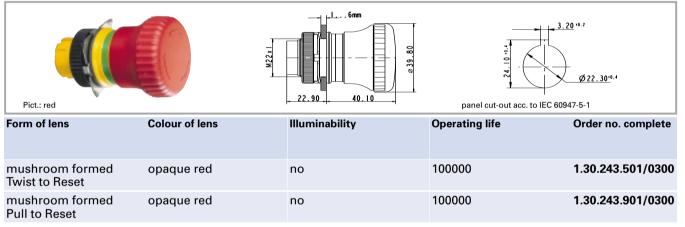


### Accessories RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418

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

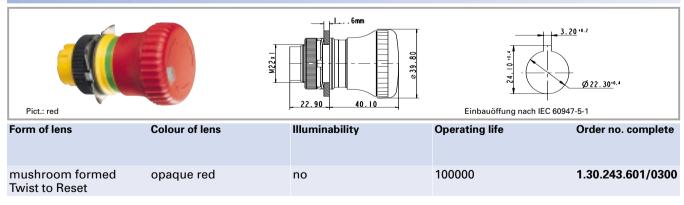


Technical data see page 2 - 124

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**



Technical data see page 2 - 124

Included: Ring nut with claw.

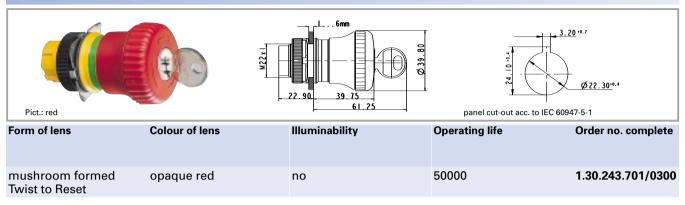
Switching position indication: In the non-operated condition, a green ring is visible on the side.

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	Stoc
•	by hold



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



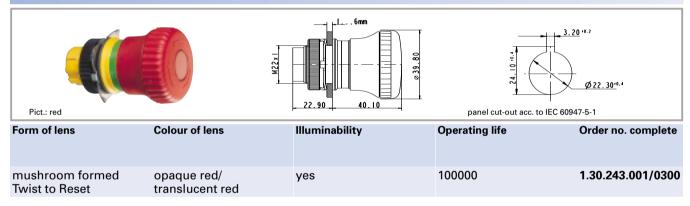
2

RAFIX 22 QR 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



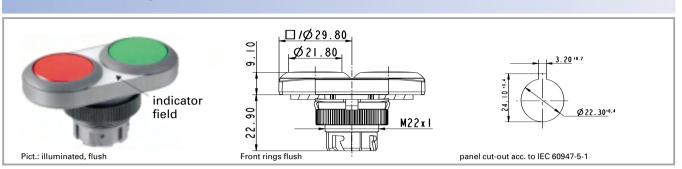
Technical data see page 2 - 124

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**



# 2

RAFIX

22 QR

## **General data**

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

#### **Technical data**

**General information** Front ring form/Legending Colour of lens Colout of front ring Form of collar

#### Dimensions

Length of collar Width of collar Overall height Mounting depth with contact block without cable Mounting hole Key grid

Mechanical design

Mounting Contact function Illuminability see order block opaque green/opaque red see order block see order block

59.6 mm 29.8 mm 9.1 mm

56.4 mm 22.3 mm 50 x 30 mm

ring nut momentary see order block

#### Mechanical characteristics

Operating force max.

Robustness min.

#### Other specifications Degree of protection from front side Ambient temp. operating min. Ambient temp. operating max. Storage temperature max.

Resistance at variable environment

Resistance to constant

environment

approx. 5 N for 1 switching element 100 N

IP65

-25 °C

+70 °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 twin pushbutton

Description	Photo	Order no.	Page
RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, screw terminals, 1 NO, 1 NC		1.20.124.025/0000	2 - 141
RAFIX 22 QR contact block with gold contacts, with coupling and lamp socket, cage clamp terminals, 1 NO, 1	Ŵ	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

Pict.: illuminated $1/0^{29.80}$ $1/0^{29.80}$ $1/0^{21.80}$ $1/0^{22.10}$ $1/0^{22.30^{10.4}}$				
Illuminability	Colour of lens	Front ring form/Legending		er 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 l	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 l	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

Pict: non-illuminated $M_{22x1}$ panel cut-out acc. to IEC 60947-5-1				
Illuminability	Colour of lens	Front ring form/Legending	Orde	er no.
			Plastic front ring	Metal front ring
yes	opaque green/opaque red	flush/ none	1.30.241.051/22xx	1.30.241.071/2200
yes	opaque green/opaque red	flush/red 0; green l	1.30.241.052/22xx	1.30.241.072/2200
yes	opaque green/opaque red	protruding/none	1.30.241.451/22xx	1.30.241.471/2200
no	opaque green/opaque red	flush/ none	1.30.241.151/07xx	1.30.241.171/0700
no	opaque green/opaque red	flush/red 0; green l	1.30.241.152/07xx	1.30.241.172/0700
no	opaque green/opaque red	protruding/none	1.30.241.551/07xx	1.30.241.571/0700

RAFIX 22 QR

2

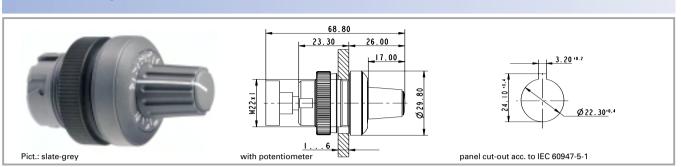
Technical data see page 2 - 128

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**



2

## **Technical data**

**General information** Form of lens Colour of handle Front ring Form of collar

#### Dimensions

Length of collar Width of collar Overall height Mounting depth

22 QR

RAFIX

Mounting hole Key grid Diameter of collar

Mechanical design Mounting knob size see order block see order block see order block

see order block see order block 26 mm according to potentiometer 22.3 mm 50 x 30 mm see order block Mechanical characteristics Robustness min. Other specifications

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

Resistance at variable environment

100 N

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

ring nut

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

Pict:: slate-grey	68.80 17.00 17.00 17.00 10	panel cut-out acc. to IEC 60947-5-1
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
lietai	opaque black	1.30.246.001/0000
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 potentiometer drive, square collar** 68.80 26.00 23.30 3.20 .... 17.00 Ø22.30% Pict.: slate-grey panel cut-out acc. to IEC 60947-5-1 **Colour of handle Front ring** Order no. complete metal 1.30.248.071/0000 opaque slate-grey plastic slate-grey opaque slate-grey 1.30.248.021/0700 plastic silber opaque slate-grey 1.30.248.021/0800 metal 1.30.248.081/0000 opaque black 1.30.248.031/0700 plastic slate-grey opaque black plastic silber opaque black 1.30.248.031/0800

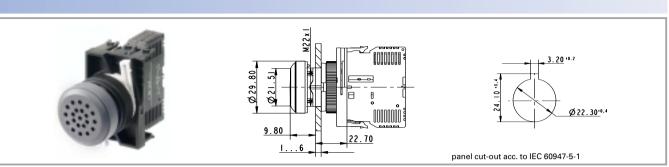
Technical data see page 2 - 132

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

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

#### Dimensions

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

RAFIX

22 QR

Mechanical design Mounting

Acoustic characteristics Sonic pressure, 1 m distance min. flat lens opaque slate-grey see order block see order block

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

ring nut

see order block

**Electrical characteristics** Operating voltage DC Input current Sound frequency

Mechanical characteristics Robustness min.

#### Other specifications

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

Resistance at variable environment

see order block see order block see order block

100 N

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 buzzer

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

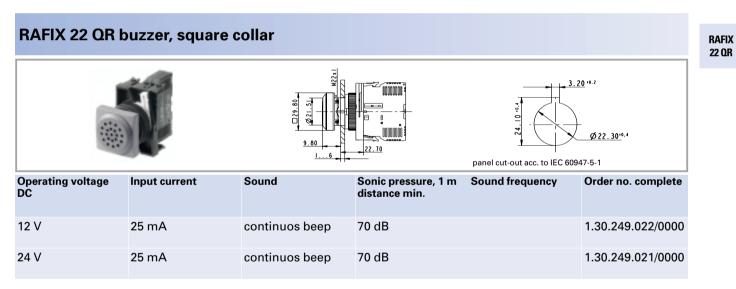


2

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

	S.	229.30 9		panel cut-out acc. to IEC 6094	
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



Technical data see page 2 - 134



### **RAFIX 22 QR signal indicator**



## **Technical data**

**General information** Form of lens Colour of lens Form of collar

**Dimensions** 

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

Mechanical design Mounting Illuminability

flat lens see order block see order block

see order block see order block 9.4 mm 56.4 mm 22.3 mm 50 x 30 mm see order block

ring nut yes

**Electrical characteristics** Ш Protection class Other specifications 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

# IP65 -25 °C +70 °C -40 °C +80 °C

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

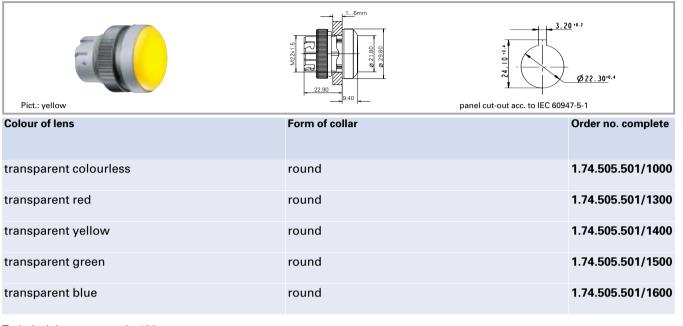
according to IEC 600 68-2-14 and 2-33

### **Accessories RAFIX 22 QR signal indicator**

Description	Photo	Order no.	Page
RAFIX 22 QR lamp socket assembly, screw terminals, with coupling	ų.	1.71.213.001/0000	2 - 150
RAFIX 22 QR lamp socket assembly, screw terminals, with coupling, diode and series resistor 130 V	ų.	1.71.213.004/0000	2 - 150
RAFIX 22 QR lamp socket assembly, cage clamp terminals, with coupling	ų.	1.71.214.001/0000	2 - 150
Fixing spanner for ring nut and front ring		5.05.800.062/0000	5 - 25
Legend insert without legend		5.70.803.000/2000	



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



Technical data see page 2 - 136

#### Accessories:

Legend insert without legend: 5.70.803.000/2000

# RAFIX 22 QR signal indicator, square collar

Pict.: red	panel cut-out acc. to IEC 605	20 '*.? 
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



# 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

Dimensions Length	39.5 mm	Positive opening travel Operating speed	3 mm 5 1000 mm/s
Width	10 mm		
Height	46 mm	Electrica characteristics acc.	
Mounting depth without	50.4	Resistive load AC	10 A/250 V; 7.5 A/400 V
cable	56.4 mm	Motor load AC	6 A/250 V; 4 A/400 V (5 A/250 V)
Mechanical design		Peak input current	
Mounting	snap on coupling and	filament lamp AC	36 A
	actuator	Peak capacity input	
Contact system	bridgecontact self	current AC	100 A
-	cleaning	Protection class	II
Contact materials	Ag		
Contact arrangement	see order block	Lamp characteristics	
NC contact forcibly		Lamp socket	BA 9 s
actuated acc. to IEC 60947-5-7	1 ves		
Terminals	see order block	Other specifications	
Terminal marking	colour encoded	Operating life at 10	
Robustness	100 N	A/250 V AC	500000 (70000)
Operating force	approx. 5 N for 1 contact	Switching reliability at	300000 (70000)
Operating force	element	24V/5mA DC	10 x 10 <sup>-6</sup>
Wire repare colid wires	element		
Wire range solid wires	$2 \times 0.75$ $2 \times 10^{2}$	Approvals	ENEC, cURus (UL + CSA)
without wire end sleeves	2 x 0.75 2.5 mm²	Robustness	acc. IEC 60947-5-5
Wire range stranded		Corresponding to CE	acc. EU-guideline N
wires without wire end sleeve			72/73
	2 x 1.0 1.5 (2 x 0.08	Shock resistance acc. to	
	2.5) mm²	IEC 60068-2-27	50 g at 11 ms, amplitude
Wire range with wire end	_		half sinusoidal
sleeves	2 x 0.75 1.5 mm²	Resistance to vibrations	
		acc. to IEC 60068-2-6	10 g at 40 500 Hz
Electrica characteristics acc.	to IEC 60947	Ambient temp. operating	
Rated insulation voltage		min.	-25 °C
AC/DC	400 V	Ambient temp. operating	
Rated peak voltage	6000 V	max.	+70°C (+50°C)
Rated operating current		Storage temperature min.	-40 °C
Ie AC 12	10 A	Storage temperature max.	+80 °C
Rated operating current		Flame class acc. to UL 94	V 0
I. AC-15	125 V/10 A, 250 V/6 A,	Hot wire ignition acc.	
	400 V/3.5 A	to IEC 60695-2-1	yes
Rated operating current	400 0/0.0 A	Resistance to constant	yes
I₅ DC-13 Q300	24V/2.75A, 60V/1.1A,	environment	IEC 600 68-2-3 and 2-30
	125V/0.55A, 250V/0.275A	Resistance at variable	1LC 000 00-2-3 and 2-30
Degree of pollution			IEC 600 69 2 14 and 2 22
Degree of pollution	3	environment	IEC 600 68-2-14 and 2-33

RAFIX 22 QR

2

2 - 138

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

# 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	TT T	5.05.510.935/0000	2 - 158
Coupling with reference numbers 1/2-5/6-3/4	<b>H</b>	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 contact block with silver contacts**

Pict.: Silver contacts, 2 NC	, screw terminals Pict.: Sil	ver 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		
		Ū				
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		

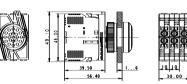
Technical data see page 2 - 138





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





Pict.: Silver contacts, 1 NO				
Terminals	Contact arrangement	Contact materials	Lamp socket	Order no. complete
screw terminals	1 NC	Ag		1.20.124.001/0000
screw terminals	1 NO	Ag		1.20.124.002/0000
screw terminals	1 NC, 1 NC	Ag		1.20.124.003/0000
screw terminals	1 NO , 1 NO	Ag		1.20.124.004/0000
screw terminals	1 NO , 1 NC	Ag		1.20.124.005/0000
screw terminals	1 NC + 1 NO	Ag		1.20.124.017/0000
screw terminals	1 NC + 1 NO , 1 NC + 1 NO	Ag		1.20.124.018/0000
screw terminals	2 NC	Ag		1.20.124.019/0000
screw terminals	2 NO	Ag		1.20.124.020/0000
clamp cage	1 NC	Ag		1.20.125.001/0000
clamp cage	1 NO	Ag		1.20.125.002/0000
clamp cage	1 NC, 1 NC	Ag		1.20.125.003/0000
clamp cage	1 NO , 1 NO	Ag		1.20.125.004/0000
clamp cage	1 NO , 1 NC	Ag		1.20.125.005/0000

Technical data see page 2 - 138

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.



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

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

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, 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, 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.



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







Assembly: Au contacts, 1NC + 1NO

# 2

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	39.5 mm	Electrical characteristics	1 42 V
Length Width	10 mm	Operating voltage AC/DC Operating current AC/DC	0.01 100 mA
Height	46 mm		0.01 100 mA
Mounting depth without		Lamp characteristics Lamp socket	BA9s
cable	56.4 mm		BA 9 5
Mechanical design		Other specifications	1 million at 10 m $\Lambda/24$
Mounting	snap on coupling and	Operating life	1 million at 10 mA/ 24 V DC
mounting	actuator	Switching reliability at	DC
Contact system	bridgecontact self	24V/5mA DC	10 x 10⁻ <sup>6</sup>
·	cleaning	Robustness	acc. IEC 60947-5-5
Contact materials	Au	Corresponding to CE	acc. EU-guideline N
Contact arrangement	see order block		72/73
NC contact forcibly		Shock resistance acc. to	
actuated acc. to IEC 60947-5		IEC 60068-2-27	50 g at 11 ms, amplitude
Terminals Terminal marking	see order block colour encoded		half sinusoidal
Robustness	100 N	Resistance to vibrations	10
Operating force	approx. 5 N for 1 contact	acc. to IEC 60068-2-6	10 g at 40 500 Hz
operating force	element	Ambient temp. operating min.	-25 °C
Wire range solid wires		Ambient temp. operating	-25 C
without wire end sleeves	2 x 0.75 2.5 mm²	max.	+70 °C
Wire range stranded		Storage temperature min.	-40 °C
wires without wire end slee		Storage temperature max.	+80 °C
	2 x 1.0 1.5 mm²	Resistance to constant	
Wire range with wire end	0.075 1.5	environment	IEC 600 68-2-3 and 2-30
sleeves	2 x 0.75 1.5 mm²	Resistance at variable	
		environment	IEC 600 68-2-14 and 2-33

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

Description	Photo	Order no.	Page
Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V		1.90.060.133/0000	5 - 8
Neon lamp BA 9s (MBC/MCC), 220 V AC (red)	<b>4</b>	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	1	5.40.010.131/0000	2 - 160



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

1				
Pict.: Au contacts, 1 NC, scre	w terminals Pict.: 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

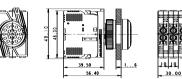
Technical data see page 2 - 142

RAFIX 22 QR



## 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

1 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 cap	ge clamp terminals			
Terminals	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
clamp cage	1 NO	Au	BA 9 s	1.20.125.122/0000
clamp cage	1 NC, 1 NC	Au	BA 9 s	1.20.125.123/0000
clamp cage	1 NO , 1 NO	Au	BA 9 s	1.20.125.124/0000
clamp cage	1 NO , 1 NC	Au	BA 9 s	1.20.125.125/0000

Technical data see page 2 - 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: **1.90.690.343/0000** 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)

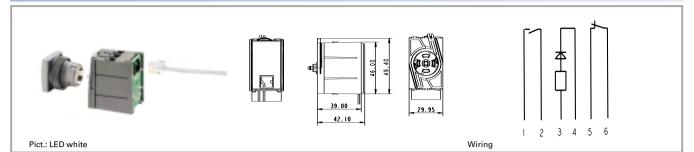
1 NO, 1 NC = **Two separate contact blocks** are mounted on the coupling: One with a normally open contact and one with a normally closed contact

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.



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



2

## **Technical data**

Dimensions

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

Mechanical design Mounting

Contact system

RAFIX 22 QR Contact materialsAuContact arrangementseeNC contact forciblyactuated acc. to IEC 60947-5-1 yesTerminalsRJ-Terminal markingRJ-Mounting grid30 ×Robustness100

snap on actuator bridgecontact self cleaning Au see order block

yes RJ-12 RJ-12 plug 30 x 50 100 N

#### **Electrical characteristics**

Operating voltage AC/DC Operating current AC/DC 24 V 0.01 ... 50 mA

Other specifications Operating life Switching reliability at 24V/5mADC 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 39 00 42.10 Pict.: LED white Wiring **Contact arrangement Operating voltage AC/DC** Integrated LED LED colour Order no. complete 1 NC 24 V 1.20.128.001/0000 no 1 NC 24 V 1.20.128.011/0000 yes white 1 NC 24 V 1.20.128.021/0000 red yes 1 NC 24 V 1.20.128.031/0000 yellow yes 1 NC 24 V 1.20.128.041/0000 green yes 1 NC 24 V blue 1.20.128.051/0000 yes 1 NO 24 V 1.20.128.002/0000 no 1 NO 24 V white 1.20.128.012/0000 yes 1 NO 24 V 1.20.128.022/0000 red yes 1 NO 24 V 1.20.128.032/0000 yellow yes 1 NO 24 V 1.20.128.042/0000 yes green 1 NO 24 V yes blue 1.20.128.052/0000 1 NC + 1 NO 24 V 1.20.128.003/0000 no 1 NC + 1 NO 24 V 1.20.128.013/0000 white yes 1 NC + 1 NO 24 V red 1.20.128.023/0000 yes 1 NC + 1 NO 24 V 1.20.128.033/0000 yes yellow 1 NC + 1 NO 24 V 1.20.128.043/0000 green yes 1 NC + 1 NO 24 V blue 1.20.128.053/0000 yes

Technical data see page 2 - 146

Other contact arrangement versions available on request.



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



# 2

# **Technical data**

Dimensions

Length Width Height Mounting depth without cable

Mechanical design Mounting

RAFIX 22 QR

Terminals Terminal marking

> Kennwerte Lampenfassung Lamp socket Operating voltage AC/DC Lamp power max. Lamp voltage

46 mm 10 mm 39.5 mm 56.4 mm

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

BA 9 s see order block 2 W 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

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 19 -25 °C 19 +70 °C in. -40 °C ax. +80 °C

V 0

yes

see order block

# 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>4</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



# 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	TT T	5.05.510.935/0000	2 - 158
Coupling with reference numbers 1/2-5/6-3/4	<b>H</b>	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, without coupling



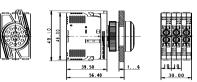
Terminals	Diode and resistor	Approvals	Lamp socket	Operating v oltage AC/DC	Lamp voltage	Order no. complete
screw terminals	no	ENEC 10/15; ULc	BA9s	6 250 V	6 250 V	5.00.070.074/0000
screw terminals	yes	ENEC 10/15; ULc	BA9s	250 V	130 V	5.00.070.080/0000
clamp cage	no	ENEC 10/15; ULc	BA 9 sBA 9 s	6 250 V	6 250 V	5.00.070.078/0000

Technical data see page 2 - 148



# RAFIX 22 QR lamp socket assembly, with coupling





Pict.: Lamp socket with cage clamp terminals

Pict.: Lamp socket w	Pict.: Lamp socket with cage clamp terminals						
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

2



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



2

RAFIX 22 QR

# Technical data

Dimensions		Other specifications	
Length	46 mm	Approvals	ENEC 10/15; ULc
Width	10 mm	Robustness	acc. IEC 60947-5-5
Height	39.5 mm	Shock resistance acc. to	
Mounting depth without		IEC 60068-2-27	50 g at 11 ms, amplitude
cable	56.4 mm		half sinusoidal
		Resistance to vibrations	
Mechanical design		acc. to IEC 60068-2-6	10 g at 40 500 Hz
Mounting	snap on coupling and	Resistance to constant	-
ç	actuator	environment	IEC 600 68-2-3 and 2-30
Diode and resistor	see order block	Resistance at variable	
LED colour	see order block	environment	IEC 600 68-2-14 and 2-33
Terminals	screw terminals	Ambient temp. operating	
Terminal marking	X1 = anode, X2 = cathode	min.	-20 °C
-		Ambient temp. operating	
Lamp characteristics		max.	+65 °C
Operating voltage	see order block	Storage temperature min.	-40 °C
Max. current, I <sub>F</sub>	see order block	Storage temperature max.	+80 °C
		Flame class acc. to UL 94	V 0
		Hot wire ignition acc.	

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

Description	Photo	Order no.	Page
Coupling with reference numbers 1-3-2	IT I	5.05.510.935/0000	2 - 158
Coupling with reference numbers 1/2-5/6-3/4	<b>H</b>	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

to IEC 60695-2-1

yes



2

RAFIX 22 QR

# **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



## **RAFIX 22 QR special accessories**



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



# Housings for flush pushbuttons

RAFIX 22 QR



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			
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

2

RAFIX 22 QR



# **Front ring**

Pict.: metal			
Short text	Feature 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

2

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



Pict.: slate-grey	1
-------------------	---

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

# **RAFIX 22 QR**



## 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

ENR			
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.

\_\_\_\_

2



# 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

2





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

# **RAFIX 22 QR**



# **Ring nut**

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

## Lamp tester

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

# Protective cover, suitable for pushbuttons with flush lens

Pict: 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



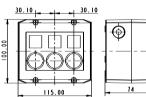
## **Marking tag**



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





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Pict.: 3-module			
Short text	Feature 1	Feature 2	Order no.
Insulating housing IP65 for 22 QR, 1-module, light grey/dark grey	100 mm	55 mm	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.