RAFI
SOLUTIONS WITH PASSION

General data

RAFIX 22QR control component range
• For a mounting hole diameter of 22.3 mm to IEC 60947
• 250V/10A max.
• Water-jet proof IP65
• 2 collar shapes
• The lamps of the pushbuttons can also be replaced from the front
• The contact blocks (silver or gold contacts) snap onto the actuators with a coupling
• Screw, cage clamp, quick connect terminals or RJ12 connector
• 3 NC + 3 NO max.

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

Content

2

RAFIX
22 QR

RAFI
SOLUTIONS WITH PASSION

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

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

2
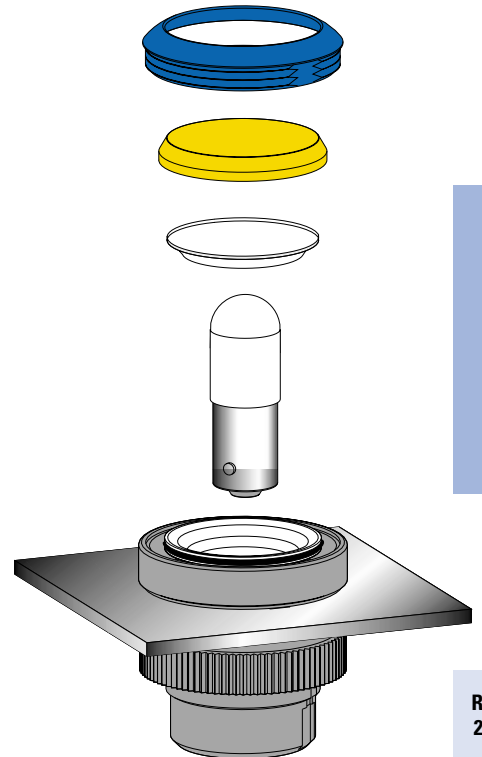
The lamps of pushbuttons and signal lamps can be replaced from the front. This method saves time and increases safety since it eliminates the need for accessing the machine/control station interior and handling live cables for lamp replacement. After unscrewing the front ring, the lens can be removed and the lamp replaced.

RAFIX 22 QR
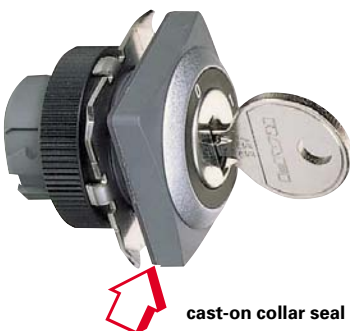
The components feature a removable locating lug. If installed without locating lug, the ring nut with claw can be used. Accurate alignment of the actuator can be achieved behind the front panel. The cast-on collar seal can not get lost nor be twisted during installation and allows single-person assembly: the actuator is held in the mounting hole by the cast-on seal and can then be fixed by screwing from the rear.

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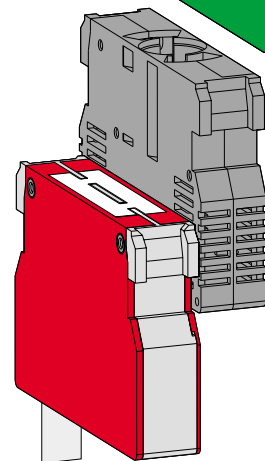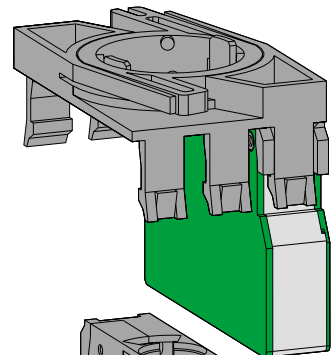
First, snap the lamp socket and contact blocks into the coupling. Then snap the assembly on to the actuator. To release it, the bayonet must be pressed (prevents inadvertent releasing at the same time).

Control Components
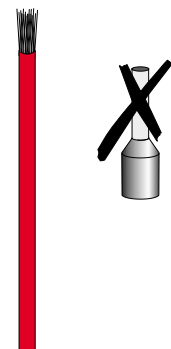
Terminals

The RAFIX 22 QR contact blocks are available in different connection styles as required for your application:
- **Screw terminals**
  The terminals are open and the captive screws are mounted in the terminal recess.
- **Quick connect/solder terminals 6.3 x 0.8 mm**
- **Cage clamp terminals**
  Simply insert a screwdriver to open the terminal, insert the cable and remove the screwdriver to close the terminal.
- **RJ 12-terminal**
  Just plug in the cable with a RJ 12 connector.

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**
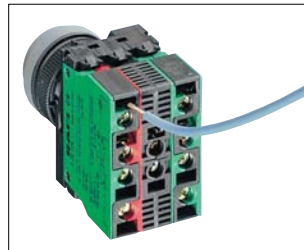
Insert the wire.
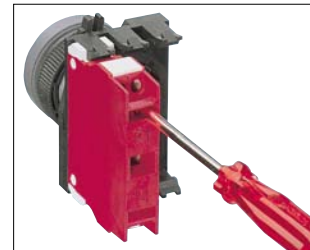
Open the terminal.
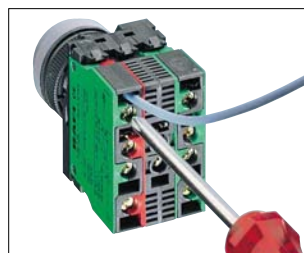
Tighten the screw.
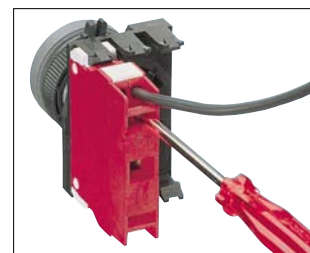
Insert the wire.

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.

Control Components

SOLUTIONS WITH PASSION

The RAFIX 22 QR control component range meets all the technical requirements and current standards for control units. The system is of modular design. Actuators, contact blocks and lamp sockets can be combined freely. This means that you may implement modifications of design or configuration even at the last minute. An additional positive effect is the reduction of stockholding costs.

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

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

• Snap the coupling with the contact blocks on to the actuator.
• Connect the cables.
• Disassembly is performed in reverse order. To remove the coupling from the actuator, the latch lever must be pressed (by hand or with a screwdriver).

Assembly   Disassembly

2
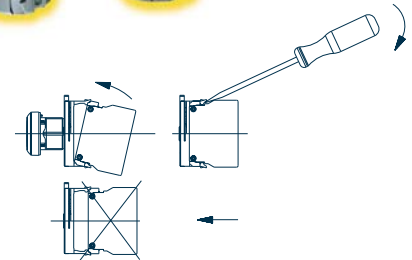
Approvals

● = approved, ○ = pending

Part no.	BG zert.	VDE 0660	EC 10/15	ULc	GL
1.20 124.– – –	○	○	●	●	○
1.20 125.– – –	○	○	●	●	○
1.30 243.– – –	○			●	
1.71 213.– – –		○	●	●	○
1.71 214.– – –		○	●	●	○
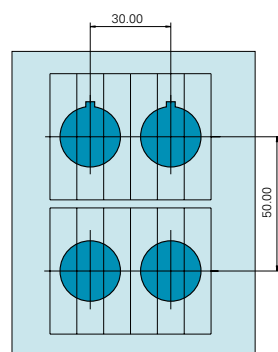
Panel cut-out according to IEC 60947-5-1
All actuators are provided with a locating lug which may be removed using a screwdriver for installation into mounting holes if required.

With a grid spacing of 30 mm horizontally and 50 mm vertically, the collars of the square actuators touch each other. We revommend to use the same grid spacing also for the round collar shapes (IEC 947).
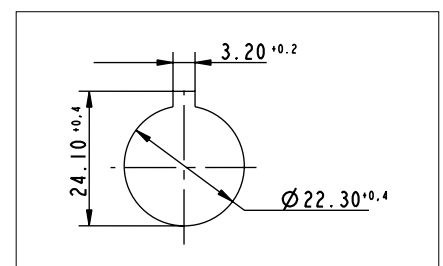
Dimensioned drawing
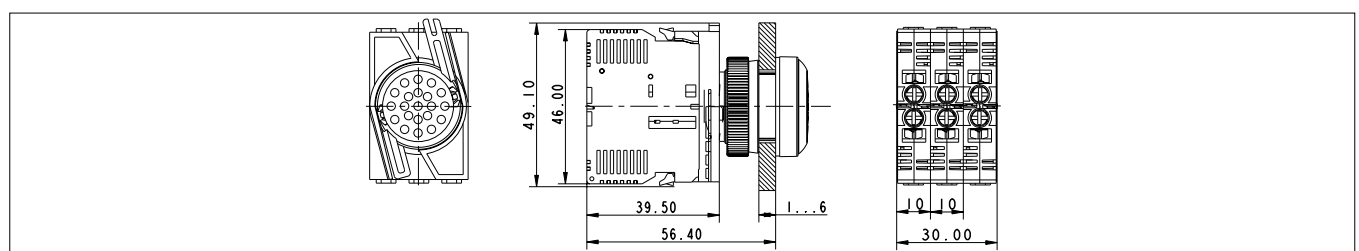
RAFIX 22 QR

RAFIX 22 QR pushbutton
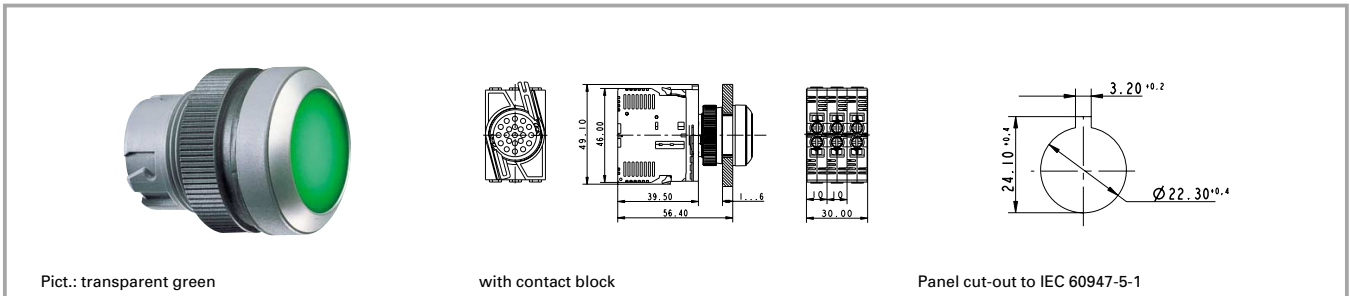
| Pict.: transparent green | with contact block | Panel cut-out to IEC 60947-5-1 |

2

Technical data

General information
Form of lens	see order block
Colour of lens	see order block
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	see order block
Mounting depth with contact block without cable	56.4 mm
Mounting hole	22.3 mm
Key grid	50 x 30 mm
Diameter of collar	see order block

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

Mechanical characteristics
Operating travel	4 mm

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

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

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		**1.20.124.002/0000**	2 - 126
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 - 127
RAFIX 22 QR contact block with gold contacts, with coupling and lamp socket, screw terminals, 1 NO		1.20.124.122/0000	2 - 131
RAFIX 22 QR contact block with silver contacts, with coupling and lamp socket, cage clamp terminals, 1 NO, 1 NC		**1.20.125.025/0000**	2 - 127
Contact block with RJ 12 connector, 2 NO, white LED		1.20.128.015/0000	2 - 133
Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V		**1.90.060.133/0000**	5 - 8
LED BA 9s (MBC/MCC) superbright, white, 24 V		**1.90.690.345/0000**	5 - 19

Control components

Accessories RAFIX 22 QR pushbutton

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

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

RAFIX 22 QR pushbutton, flush lens, round collar
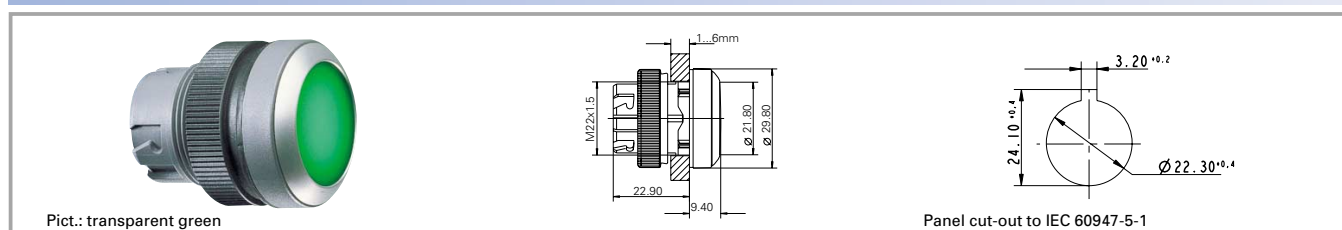
Pict.: transparent green

Panel cut-out to IEC 60947-5-1

Illuminability	Colour of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent white	1.30.240.001/10xx	**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 - 88

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

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

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

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

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RAFIX 22 QR pushbutton, protruding lens, round collar

Pict.: transparent red

Panel cut-out to IEC 60947-5-1

Illuminability	Colour of lens	Order no. momentary		Order no. latching	
		Plastic front ring	**Metallized front ring**	**Plastic front ring**	**Metallized front ring**
yes	transparent white	1.30.240.201/10xx	**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 - 88

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

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

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

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

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

Control components

RAFIX 22 QR pushbutton, protruding front ring, round collar
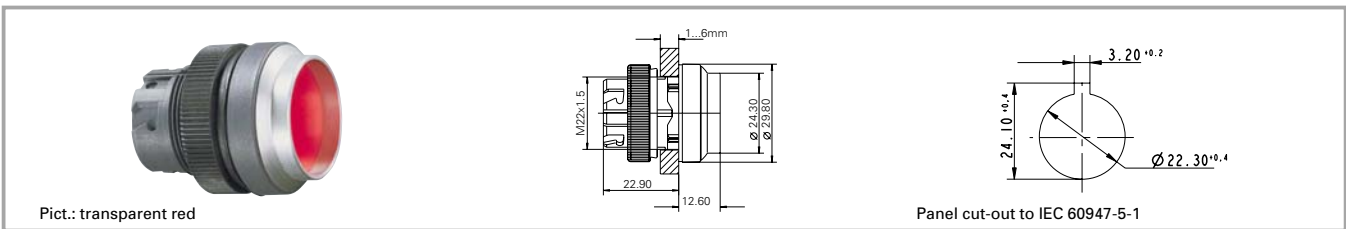
Pict.: transparent red

Panel cut-out to IEC 60947-5-1

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

Technical data see page 2 - 88

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

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

2

RAFIX
22 QR

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

Pict.: transparent red

M22x1.5   Ø 21.80   □ 29.80   1...6mm

22.90   9.40

3.20 +0.2   24.10 +0.4   Ø 22.30 +0.4

Panel cut-out to IEC 60947-5-1

2

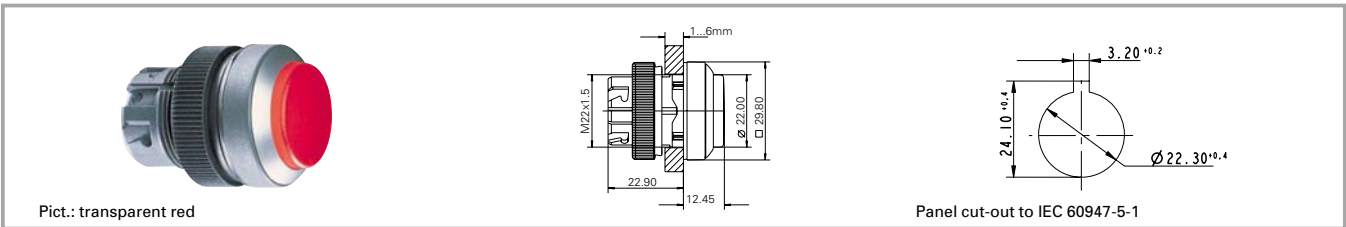| Illuminability	Colour of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent white	1.30.240.051/10xx	**1.30.240.071/1000**	1.30.240.061/10xx	**1.30.240.081/1000**
yes	transparent red	1.30.240.051/13xx	**1.30.240.071/1300**	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

Accessories:
Front ring, plastic with thermoflex protective cap, black: **5.05.004.914/0100**
Front ring, plastic with protective cap, slate grey: 5.05.004.914/0700
Front ring, plastic with thermoflex protective cap, silver grey: 5.05.004.914/0800

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

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

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

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

Control components

RAFIX 22 QR pushbutton, protruding lens, square collar
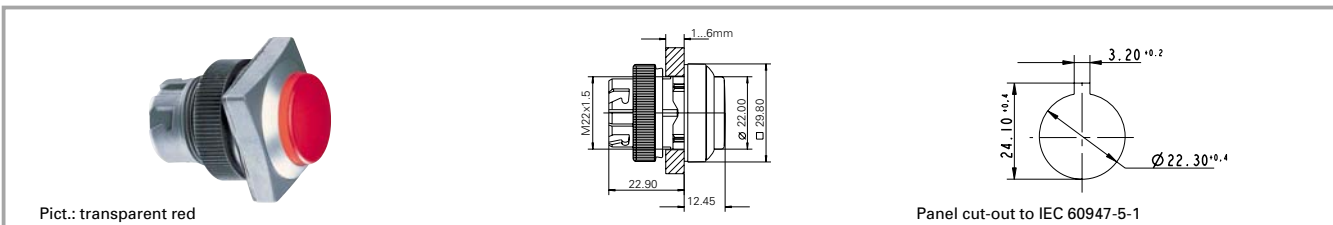
Pict.: transparent red

Panel cut-out to IEC 60947-5-1

Illuminability	Colour of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent white	1.30.240.251/10xx	**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 - 88

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

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

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

RAFIX 22 QR pushbutton, protruding front ring, square collar

Pict.: transparent green
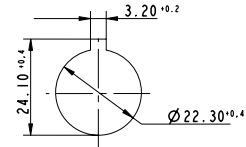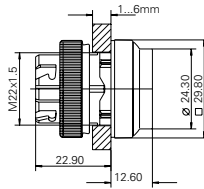
Panel cut-out to IEC 60947-5-1

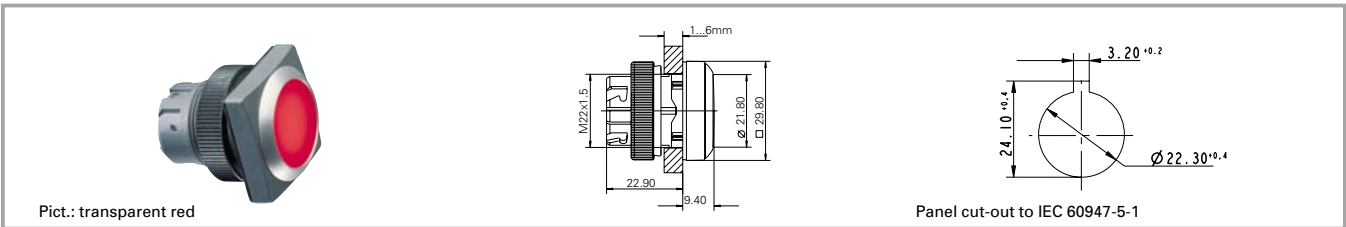| Illuminability	Colour of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	transparent white	1.30.240.451/10xx	1.30.240.471/1000	-	-
yes	transparent red	1.30.240.451/13xx	1.30.240.471/1300	-	-
yes	transparent yellow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

Technical data see page 2 - 88

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

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

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

Control components

RAFIX 22 QR selector switch

Pict.: Front ring, black, non-illuminated

Front ring, metallized, illuminated

Panel cut-out to IEC 60947-5-1

2

General data

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

Technical data

General information

Actuator	handle
Marking of handle	white
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	56.4 mm
Mounting hole	22.3 mm
Key grid	50 x 30 mm
Diameter of collar	see order block

Mechanical design

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

Mechanical characteristics

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

Electrical characteristics

Protection class	II

Other specifications

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

Accessories RAFIX 22 QR selector switch

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

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

Control components

RAFI
SOLUTIONS WITH PASSION

Accessories RAFIX 22 QR selector switch

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

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

RAFIX 22 QR selector switch, round collar, short handle
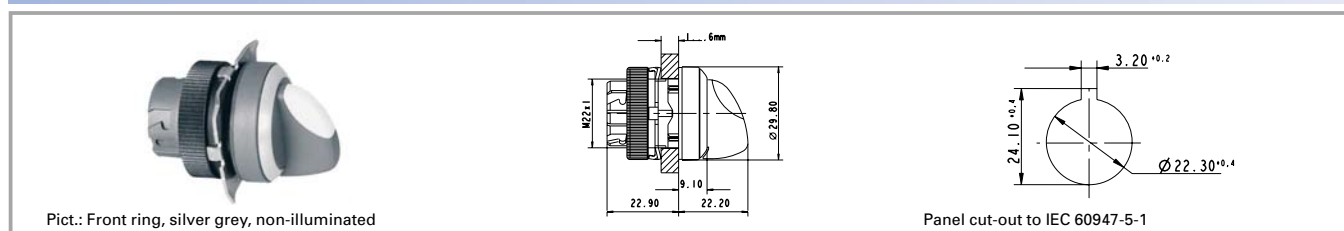
Pict.: Front ring, silver grey, non-illuminated

Panel cut-out to IEC 60947-5-1

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

Technical data see page 2 - 96

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

Included: Ring nut with claw.

Other contact versions on request

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

The following selector switches with silver grey plastic front ring are stock items:
Illuminated: **1.30.252.001/2208**, **1.30.252.026/2208**, **1.30.252.101/2208**, **1.30.252.201/2208**, **1.30.252.301/2208**
Non-illuminated: **1.30.252.501/0208**, **1.30.252.526/0208**, **1.30.252.601/0208**, **1.30.252.701/0208**, **1.30.252.801/0208**

RAFIX 22 QR selector switch, round collar, long handle

Pict.: Front ring, metallized, illuminated
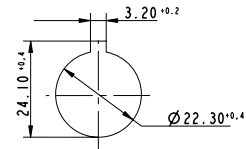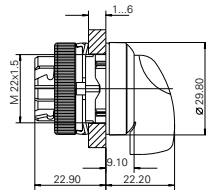
Panel cut-out to IEC 60947-5-1

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

Technical data see page 2 - 96

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

Included: Ring nut with claw.

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

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

Control components

RAFIX 22 QR selector switch, square collar, short handle

Pict.: Front ring, red, non-illuminated
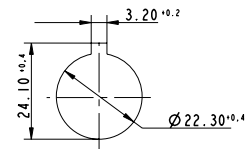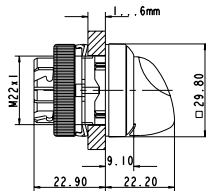
Panel cut-out to IEC 60947-5-1

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

2

Technical data see page 2 - 96

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

Included: Ring nut with claw.

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

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

Control components

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

RAFIX 22 QR selector switch, square collar, long handle

Pict.: Front ring, black, non-illuminated
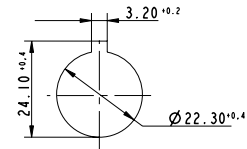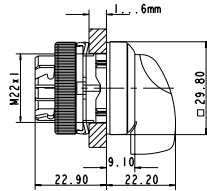
Panel cut-out to IEC 60947-5-1

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

Technical data see page 2 - 96

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

Included: Ring nut with claw.

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

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

Control components

RAFIX 22 QR keylock switch

Pict.: Front ring, metallized | operating element and contact block | Panel cut-out to IEC 60947-5-1

2

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

Mechanical design

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

Mechanical characteristics

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

Electrical characteristics

Protection class	II

Other specifications

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

Accessories RAFIX 22 QR keylock switch

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

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

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

Control components

RAFIX 22 QR keylock switch, round collar

Pict.: Front ring, metallized

M22×1 22.90 9.10 30.60 ..6mm ⌀29.80

Panel cut-out to IEC 60947-5-1

3.20 +0.2 24.10 +0.4 ⌀22.30 +0.4

Contact function	Rotating angle	Key removal position	Rotating angle	Order no.	
				Plastic front ring	**Metal front ring**
momentary	1 x 40°	0		1.30.245.001/xxxx	**1.30.245.002/0000**
momentary	2 x 40°	0		1.30.245.101/xxxx	1.30.245.102/0000
latching	1 x 90°, form L	0		1.30.245.201/xxxx	**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		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 - 102

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

Other versions on request.

Included: Ring nut with claw.

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

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

2

RAFIX
22 QR

RAFI SOLUTIONS WITH PASSION

RAFIX 22 QR keylock switch, square collar

Pict.: Front ring, metallized
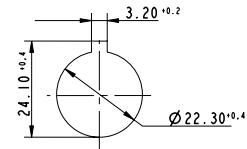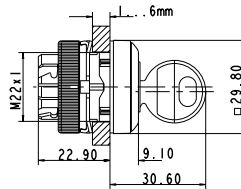
Panel cut-out to IEC 60947-5-1

Contact function	Rotating angle	Key removal position	Rotating angle	Order no.	
				Plastic front ring	Metal front ring
momentary	1 x 40°	0		1.30.245.051/xxxx	**1.30.245.052/0000**
momentary	2 x 40°	0		1.30.245.151/xxxx	1.30.245.152/0000
latching	1 x 90°, form L	0		1.30.245.251/xxxx	**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		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 - 102

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

Included: Ring nut with claw.

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

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

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

Control components

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR mushroom-headed pushbutton

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

2

Technical data

General information
Actuator	mushroom
Colour of mushroom	see order block
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	20.10 mm
Mounting depth	56.4 mm
Mounting hole	22.3 mm
Key grid	50 x 30 mm
Diameter of collar	see order block

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

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

Electrical characteristics
Protection class	II

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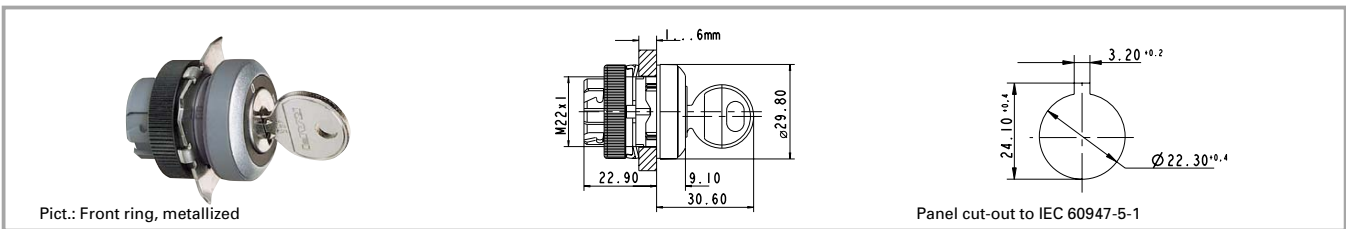|	
Operating life	1,000,000
Degree of protection from front side	IP65
Storage temperature min.	-40 °C
Storage temperature max.	80 °C
Resistance to constant environment	according to IEC 600 68-2-3 and 2-30
Resistance at variable environment	according to IEC 600 68-2-14 and 2-33

RAFIX
22 QR

Accessories RAFIX 22 QR mushroom-headed pushbutton

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

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

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

Control components

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR mushroom-headed pushbutton 40 mm, round collar
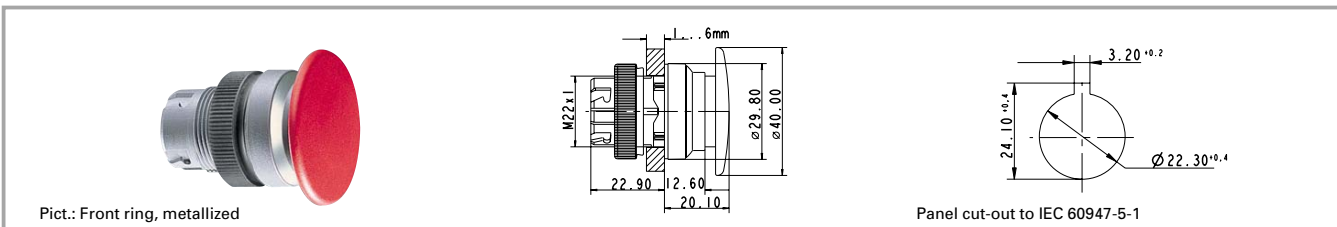
Pict.: Front ring, metallized

Panel cut-out 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	1.30.246.501/01xx	1.30.246.502/0100	1.30.246.511/01xx	1.30.246.512/0100
no	opaque red	1.30.246.501/03xx	1.30.246.502/0300	1.30.246.511/03xx	1.30.246.512/0300

Technical data see page 2 - 106

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

2

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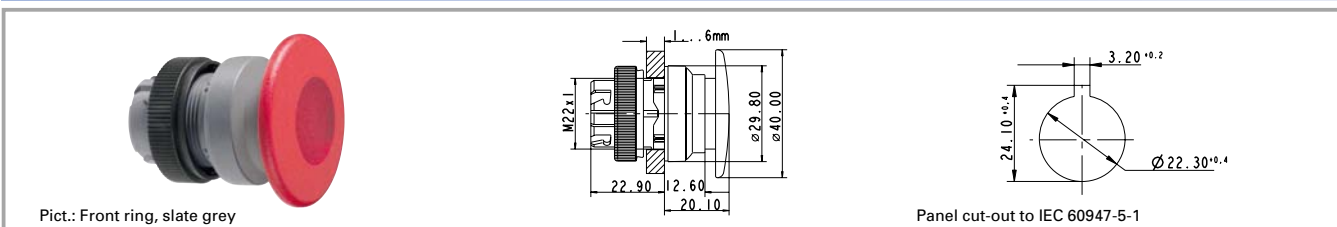
RAFIX
22 QR

Pict.: Front ring, slate grey

Panel cut-out 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**
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 - 106

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

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR mushroom-headed pushbutton 60 mm, round collar
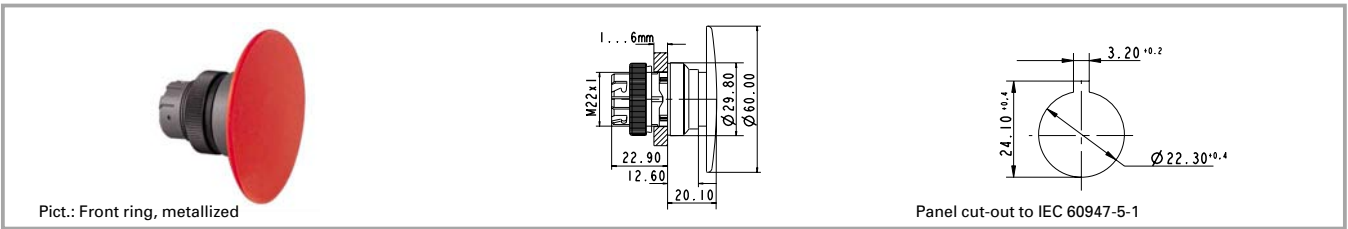
Pict.: Front ring, metallized

Panel cut-out 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 red	1.30.246.601/03xx	1.30.246.602/0300	-	-

Technical data see page 2 - 106

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

RAFIX 22 QR mushroom-headed pushbutton 40 mm, square collar
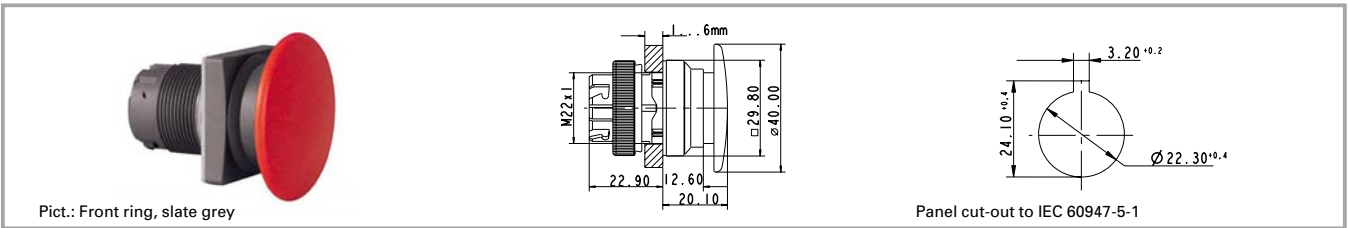
Pict.: Front ring, slate grey

Panel cut-out 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 - 106

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

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

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

Control components

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR mushroom-headed pushbutton 40 mm, illuminated, square collar
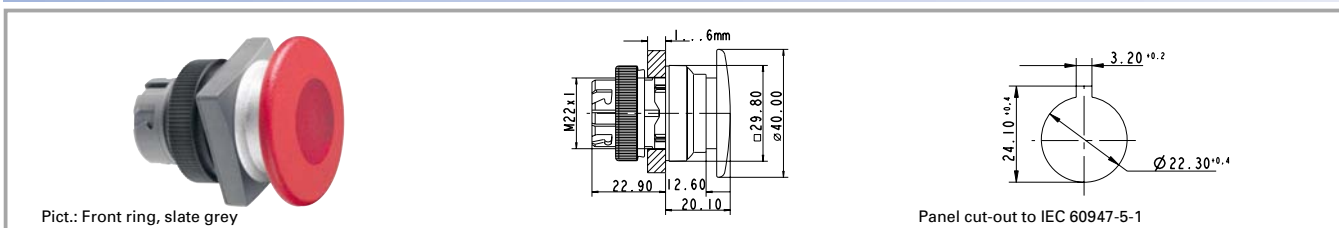
Pict.: Front ring, slate grey

Panel cut-out 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
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 - 106

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

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

RAFIX 22 QR mushroom-headed pushbutton 60 mm, square collar
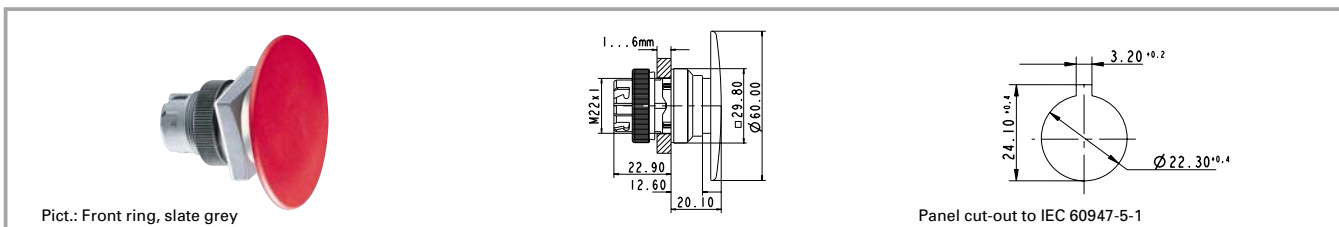
Pict.: Front ring, slate grey

Panel cut-out 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 red	1.30.246.651/03xx	1.30.246.652/0300	-	-

Technical data see page 2 - 106

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

2

RAFIX
22 QR

Control components

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

RAFI
SOLUTIONS WITH PASSION

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

M22 x 1

⌀ 39.80

22.90   40.10

⌐...6mm

3.20 +0.2

24.10 +0.4

⌀ 22.30 +0.4

Panel cut-out to IEC 60947-5-1
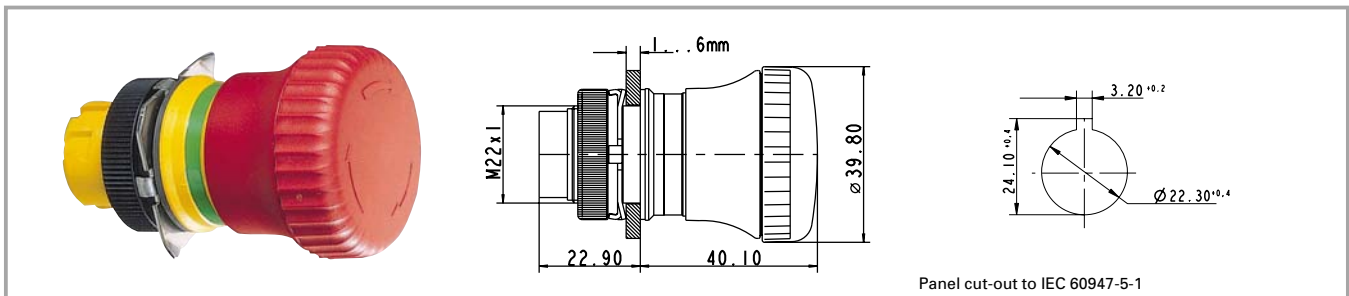
2

General data

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

Technical data

RAFIX 22 QR

General information

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

Dimensions

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

Mechanical design

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

Mechanical characteristics

Operating force max.	approx. 5 N for 1 switching element
Robustness min.	100 N
Robustness	acc. IEC 60947-5-5

Other specifications

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

Accessories RAFIX 22 QR 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		**1.20.124.001/0000**	2 - 126
RAFIX 22 QR contact block with silver contacts, with coupling, without lamp socket, screw terminals, 2 NC		**1.20.124.019/0000**	2 - 126
Fixing spanner for ring nut and front ring		**5.05.800.062/0000**	5 - 23

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

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, without legend		5.76.204.100/0400	2 - 146
Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend „NOT-AUS"		**5.76.204.101/0400**	2 - 146
Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend „ARRET D'URGENCE"		5.76.204.102/0400	2 - 146
Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend „EMERGENCY-STOP"		**5.76.204.103/0400**	2 - 146
Emergency stop label, yellow 36 x 64 mm, PVC adhesive, without legend		5.76.205.011/0400	2 - 146
Emergency stop label, yellow, round 60 mm, rigid PVC, with legend „EMERGENCY-STOP/ARRET D'URGENCE"		5.76.207.002/0400	2 - 146

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

2

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

M22x1   L...6mm   Ø39.80   22.90   40.10

3.20⁺⁰·²   24.10⁺⁰·⁴   Ø22.30⁺⁰·⁴

Panel cut-out to IEC 60947-5-1

RAFIX 22 QR
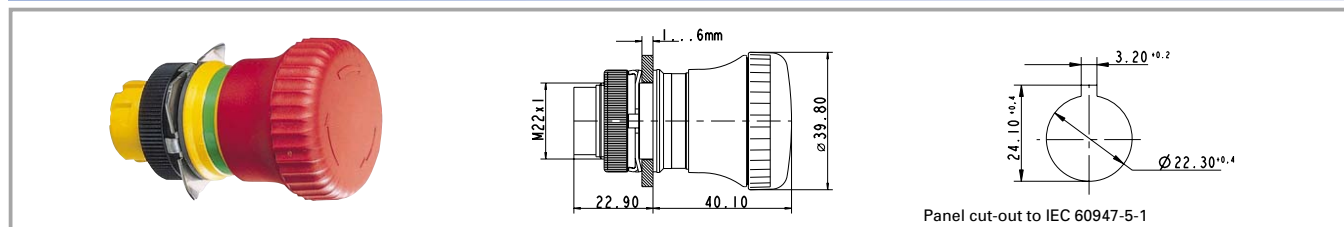
Degree of protection from front side	Reset	Colour of mushroom	Illuminability	Operating life	Order no.
IP65	by clockwise rotation	opaque red	no	100000	**1.30.243.501/0300**

Technical data see page 2 - 110

Included: Ring nut with claw.
Switching position indication: In the non-operated condition, a green ring is visible on the side.

RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418, with indication to EN 60947-1
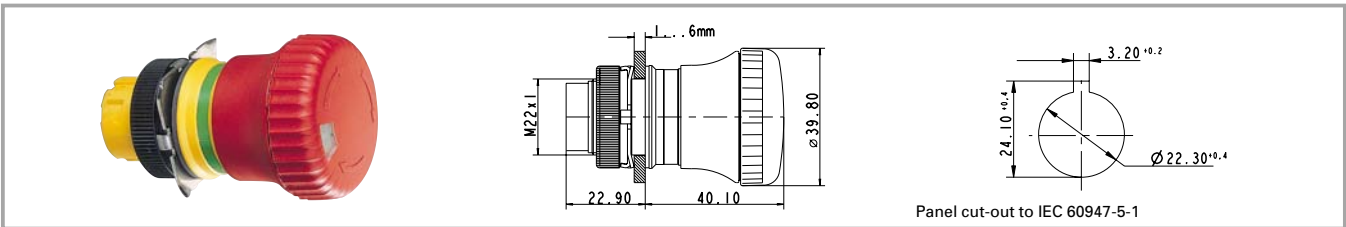
Panel cut-out to IEC 60947-5-1

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

Technical data see page 2 - 110

Included: Ring nut with claw.
Switching position indication: In the non-operated condition, a green ring is visible on the side.
This switching position is visible in addition from the front; a mechanical indicator integrated into the mushroom head changes from green to red when actuated.

RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418, with keylock
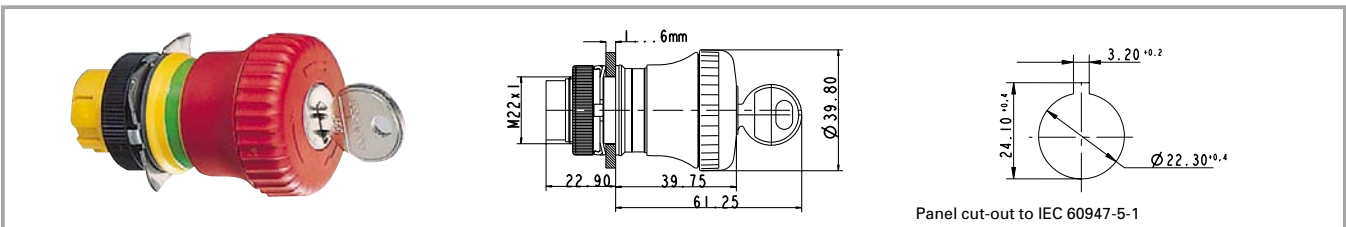
Panel cut-out to IEC 60947-5-1

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

Technical data see page 2 - 110

Accessories:
Spare key for RAFIX 22 QR: 5.58.017.001/0000

Included: Ring nut with claw, 2 keys.
Switching position indication: In the non-operated condition, a green ring is visible on the side.
Once actuated, the emergency stop pushbutton can only be reset with the key.

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

Control components

RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418, illuminated
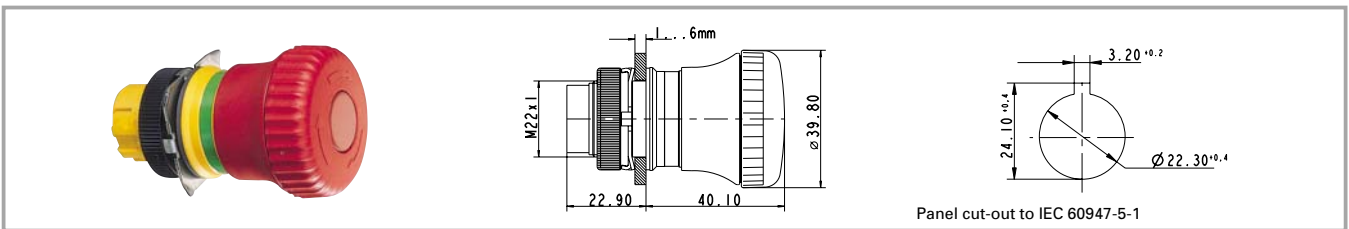
Panel cut-out to IEC 60947-5-1

Degree of protection from front side	Reset	Colour of mushroom	Illuminability	Operating life	Order no.
IP65	by clockwise rotation	opaque red/ translucent red	yes	100000	**1.30.243.001/0300**

Technical data see page 2 - 110

Included: Ring nut with claw.
Switching position indication: In the non-operated condition, a green ring is visible on the side.

NEW

RAFIX 22 QR emergency stop pushbutton, dupe-proof to EN 418
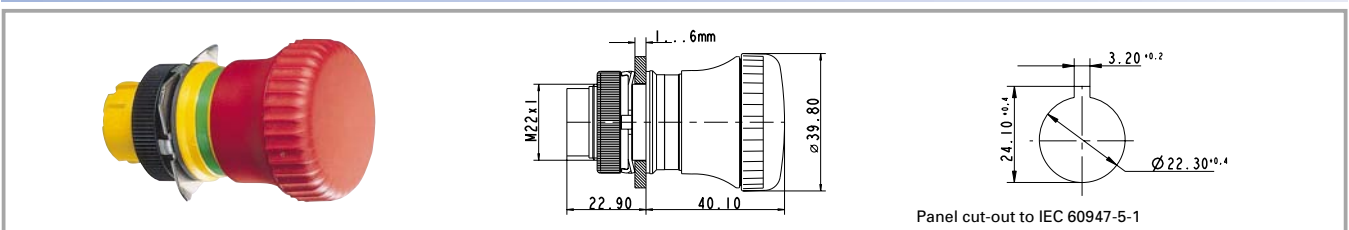
Panel cut-out to IEC 60947-5-1

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

Technical data see page 2 - 110

Included: Ring nut with claw.
Switching position indication: In the non-operated condition, a green ring is visible on the side.

2

RAFIX 22 QR

RAFIX 22 QR toggle switch

1 ... 6mm

M 22x1

Ø / □ 29.80

9.40

22.70   ca. 22.20

3.20 +0.2

24.10 +0.4

Ø 22.30 +0.4

Pict.: Front ring, metallized
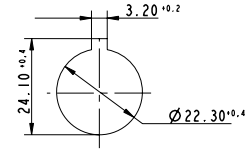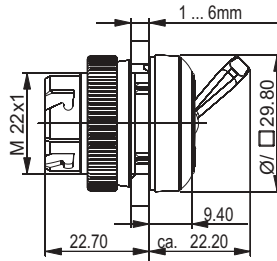
Panel cut-out to IEC 60947-5-1

Technical data

General information

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

Dimensions

Length of collar	see order block
Witdth of collar	see order block
Overall height	22 mm
Mounting depth	56.4 mm
Mounting hole	22.3 mm

Mechanical design

Mounting	ring nut

Dimensions

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

Mechanical design

Contact function	latching
Illmuniabilitiy	no

Mechanical characteristics

Robustness min.	100 N

Electrical characteristics

Protection class	II

Other specifications

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

Accessories RAFIX 22 QR toggle switch

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

RAFI
SOLUTIONS WITH PASSION

NEW

RAFIX 22 QR, toggle switch, round collar
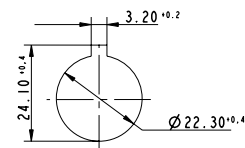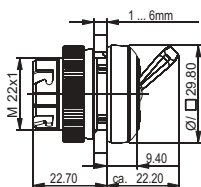
Pict.: Front ring, slate grey

1 ... 6mm

M 22x1

Ø/ □ 29.80

9.40

22.70   ca. 22.20

3.20 +0.2

24.10 +0.4

Ø 22.30 +0.4

Panel cut-out to IEC 60947-5-1

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

Technical data see page 2 - 114

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

2

NEW

RAFIX 22 QR, toggle switch, square collar

Pict.: Front ring, metallized

1 ... 6mm

M 22x1

Ø/ □ 29.80

9.40

22.70   ca. 22.20

3.20 +0.2

24.10 +0.4

Ø 22.30 +0.4

Panel cut-out to IEC 60947-5-1

RAFIX 22 QR

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

Technical data see page 2 - 114

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

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR twin pushbutton

indicator field

□ / Ø 29.80
Ø 21.80
9.10
22.90
M22 x 1
Ø 22.30 +0.40
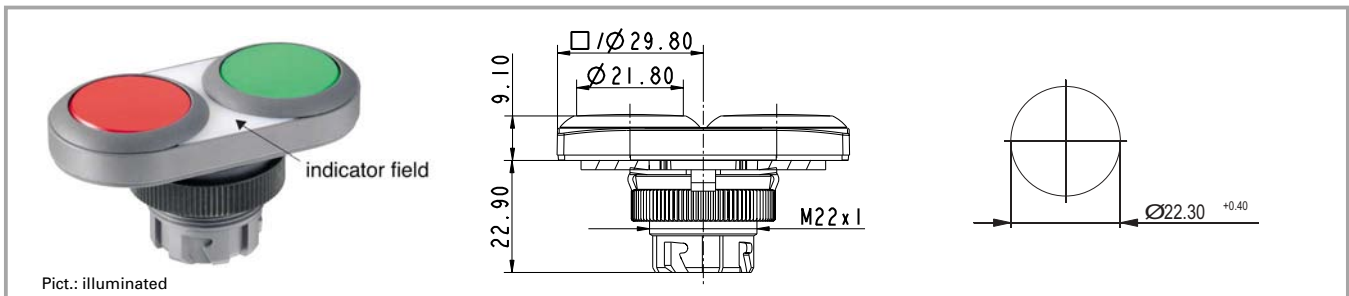
Pict.: illuminated

2

General data

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

Technical data

General information

Legending	see order block
Colour of lens	opaque green/opaque red
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

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

Other specifications

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

Accessories RAFIX 22 QR twin pushbutton

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

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

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

Control components

RAFIX 22 QR twin pushbutton, oval collar
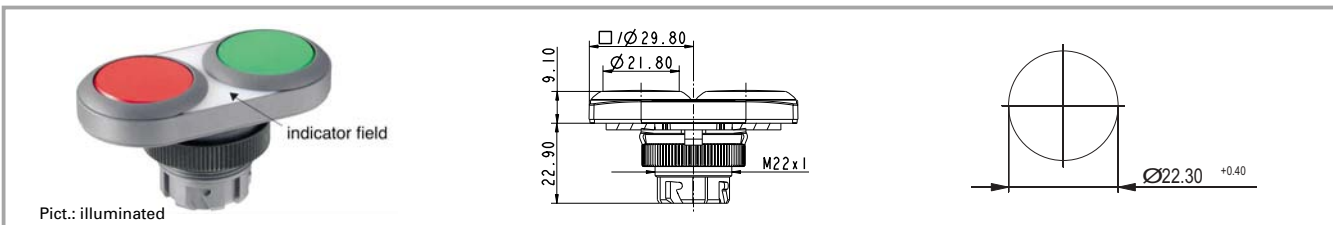
Pict.: illuminated

indicator field

□ / Ø 29.80
Ø 21.80
9.10
22.90
M22 x I

Ø 22.30 +0.40

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

Technical data see page 2 - 116

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

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

2

RAFIX 22 QR twin pushbutton, rectangular collar
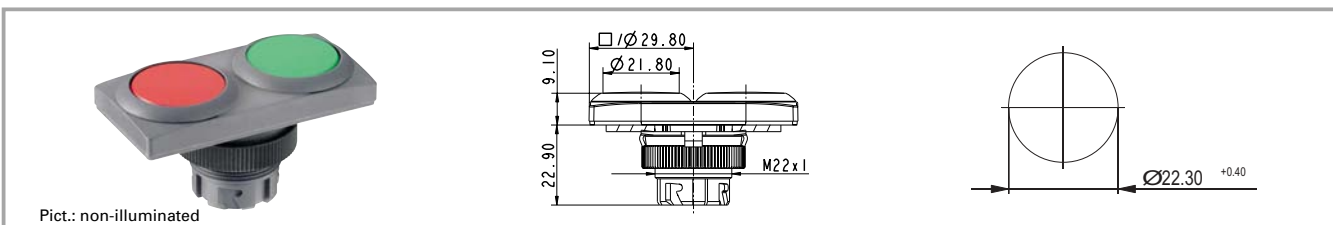
Pict.: non-illuminated

□ / Ø 29.80
Ø 21.80
9.10
22.90
M22 x I

Ø 22.30 +0.40

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

Technical data see page 2 - 116

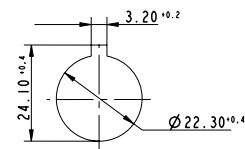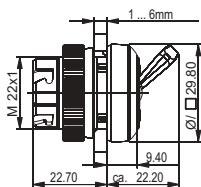xx = Front ring colour: black = 01, slate grey = 07, silver grey = 08

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

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR potentiometer drive

Pict.: slate grey with potentiometer   Panel cut-out to IEC 60947-5-1

2
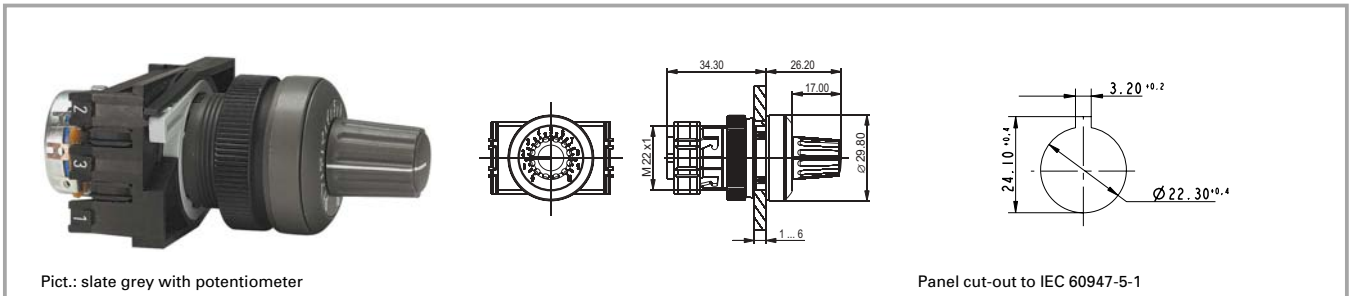
Technical data

General information

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

Dimensions

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

Mechanical design

Mounting	ring nut

Mechanical characteristics

Robustness min.	100 N

Other specifications

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

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 - 23

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

Control components

RAFIX 22 QR potentiometer drive, round collar

Pict.: slate grey with potentiometer

Panel cut-out to IEC 60947-5-1
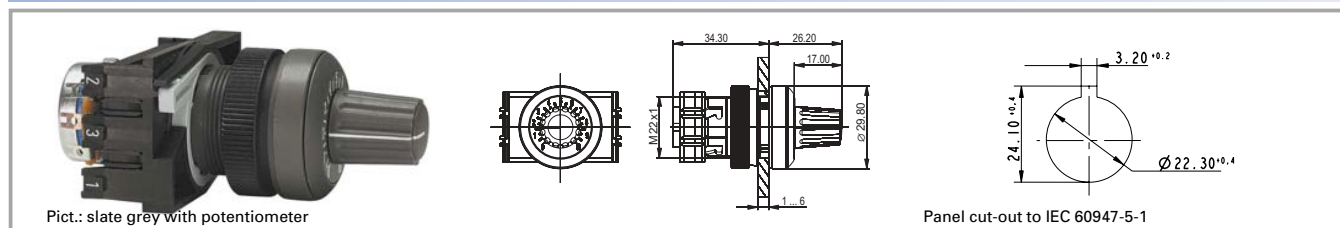
Front ring	Colour of handle	Order no.
metal	opaque slate-grey	1.30.248.051/0000
plastic slate-grey	opaque slate-grey	1.30.248.001/0700
plastic silber	opaque slate-grey	1.30.248.001/0800
metal	opaque black	1.30.248.061/0000
plastic slate-grey	opaque black	1.30.248.011/0700
plastic silber	opaque black	1.30.248.011/0800

Technical data see page 2 - 118

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

2

RAFIX 22 QR potentiometer drive, square collar

Pict.: state grey, delivery content

Panel cut-out to IEC 60947-5-1
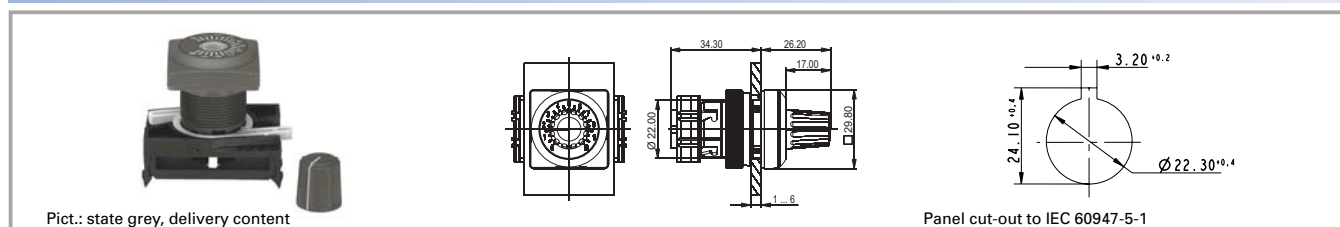
Front ring	Colour of handle	Order no.
metal	opaque slate-grey	1.30.248.071/0000
plastic slate-grey	opaque slate-grey	1.30.248.021/0700
plastic silber	opaque slate-grey	1.30.248.021/0800
metal	opaque black	1.30.248.081/0000
plastic slate-grey	opaque black	1.30.248.031/0700
plastic silber	opaque black	1.30.248.031/0800

Technical data see page 2 - 118

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

Control components

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

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR buzzer

Panel cut-out to IEC 60947-5-1

2
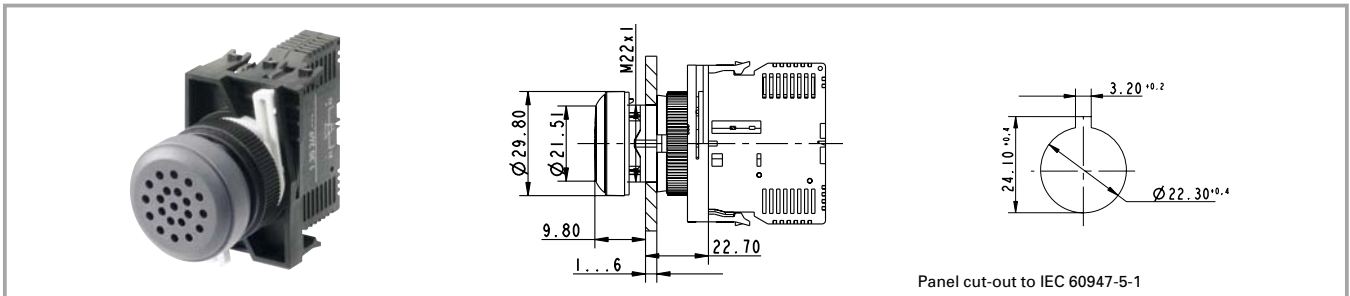
Technical data

General information

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

Dimensions

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

Mechanical design

Mounting	ring nut

Acoustic characteristics

Sonic pressure, 1 m distance min.	see order block

Electrical characteristics

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

Mechanical characteristics

Robustness min.	100 N

Other specifications

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

Accessories RAFIX 22 QR buzzer

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

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

Control components

RAFIX 22 QR

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR buzzer, round collar

Panel cut-out to IEC 60947-5-1

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

Technical data see page 2 - 120

2

RAFIX 22 QR buzzer, square collar
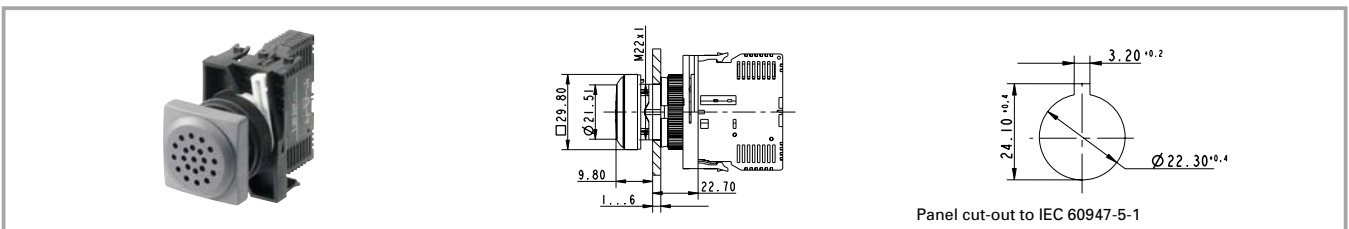
Panel cut-out to IEC 60947-5-1

RAFIX 22 QR

Operating voltage DC	Input current	Sound	Sonic pressure, 1 m distance min.	Sound frequency	Order no.
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 - 120

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

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR signal indicator

Pict.: yellow   red   Panel cut-out to IEC 60947-5-1

$3.20^{+0.2}$
$24.10^{+0.4}$
$\varnothing\ 22.30^{+0.4}$

2

Technical data

**RAFIX
22 QR**

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

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

Mechanical design
Mounting	ring nut
Illuminability	yes

Electrical characteristics
Protection class	II

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

Accessories RAFIX 22 QR signal indicator

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

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

Control components

RAFIX 22 QR signal indicator, round collar

Pict.: yellow

Panel cut-out to IEC 60947-5-1
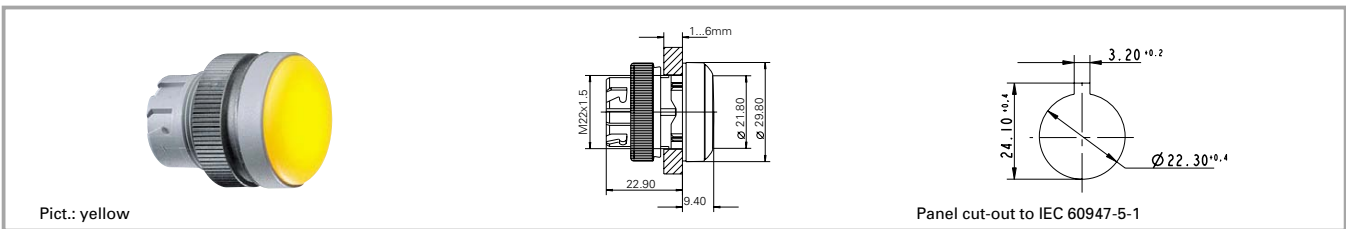
Colour of lens	Form of collar	Order no.
transparent colourless	round	**1.74.505.501/1000**
transparent red	round	**1.74.505.501/1300**
transparent yellow	round	**1.74.505.501/1400**
transparent green	round	**1.74.505.501/1500**
transparent blue	round	**1.74.505.501/1600**

Technical data see page 2 - 122

RAFIX 22 QR signal indicator, square collar

Pict.: red

Panel cut-out to IEC 60947-5-1
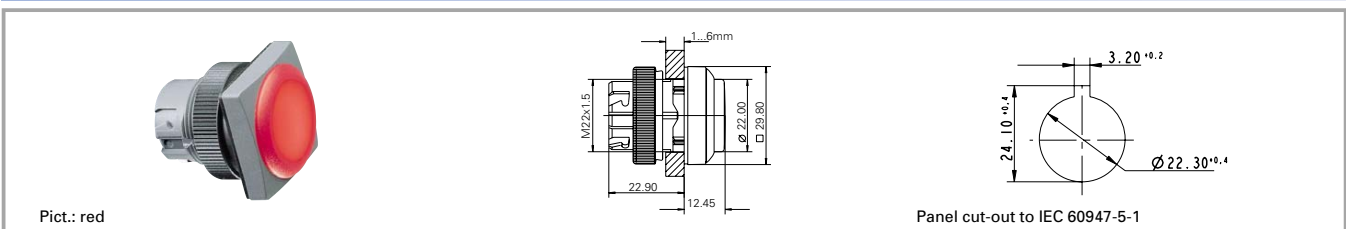
Colour of lens	Form of collar	Order no.
transparent colourless	square	**1.74.505.551/1000**
transparent red	square	**1.74.505.551/1300**
transparent yellow	square	**1.74.505.551/1400**
transparent green	square	**1.74.505.551/1500**
transparent blue	square	**1.74.505.551/1600**

Technical data see page 2 - 122

RAFIX 22 QR

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR contact blocks with silver contacts

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

Silver contacts, 2 NC, screw terminals

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

General data

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

Technical data

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 cleaning
Contact materials	Ag
Contact arrangement	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^2
Wire range stranded wires without end sleeves	2 x 1.0 ... 1.5 (2 x 0.08 ... 2.5) mm^2
Stripping length, solid or stranded	8 mm
Wire range with wire end sleeves	2 x 0.75 ... 1.5 mm^2

Electrical characteristics acc. to IEC 60947
Rated insulation voltage AC/DC	400 V
Rated peak voltage	6000 V
Rated operating current I_e AC 12	10 A
Rated operating current I_e AC-15	125 V/10 A, 250 V/6 A, 400 V/3.5 A
Rated operating current I_e DC-13 Q300	24V/2.75A, 60V/1.1A, 125V/0.55A, 250V/0.275A
Degree of pollution	3

Positive opening travel	3 mm
Operating speed	5 ... 1000 mm/s

Electrical 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 characteristics	BA 9 s

Other specifications
Operating life at 10 A/250 V AC	500000 (70000)
Switching reliability at 24V/5mA DC	10 x 10^{-6}
Approvals	ENEC, cURus (UL + CSA)
Robustness	acc. IEC 60947-5-5
Corresponding to CE	acc. EU-guideline N 72/73
Shock resistance acc. to IEC 600 68-2-27	50 g at 11 ms, amplitude half sinusoidal
Resistance to vibrations acc. to IEC 600 68-2-6	10 g at 40 ... 500 Hz
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70°C (+50°C)
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes
Resistance to constant environment	IEC 600 68-2-3 and 2-30
Resistance at variable environment	IEC 600 68-2-14 and 2-33

Control components

RAFI
SOLUTIONS WITH PASSION

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

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

2

RAFIX 22 QR contact block with silver contacts

Pict.: Silver contacts, 2 NC, screw terminals	Silver contacts, 1 NC, screw terminals	Au contacts, quick connector, 1S

RAFIX 22 QR

Terminals	Contact arrangement	Contact materials	Lamp characteristics	Order no.
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**
solder/quick connector 6.3 x 0.8 mm	1 NC	Ag		**5.00.100.194/0000**
solder/quick connector 6.3 x 0.8 mm	1 NO	Ag		**5.00.100.196/0000**

NEW

Technical data see page 2 - 124

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

RAFIX 22 QR contact block assembly, with coupling, without lamp socket, silver contacts
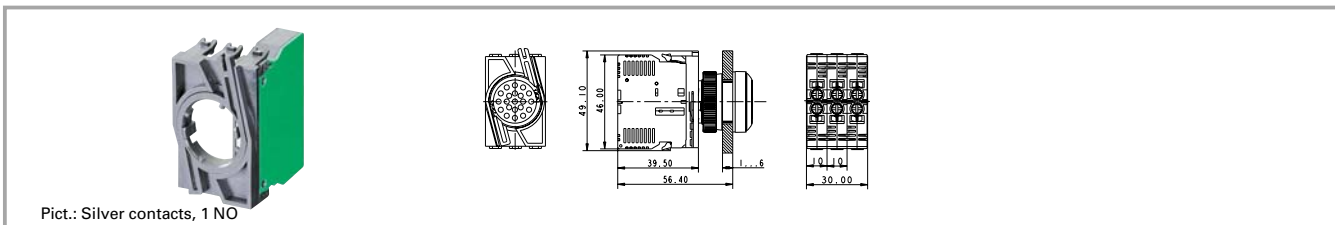
Pict.: Silver contacts, 1 NO

Terminals	Contact arrangement	Contact materials	Lamp characteristics	Order no.
screw terminals	1 NC	Ag		**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 - 124

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

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR contact block assembly, with coupling and lamp socket, silver contacts
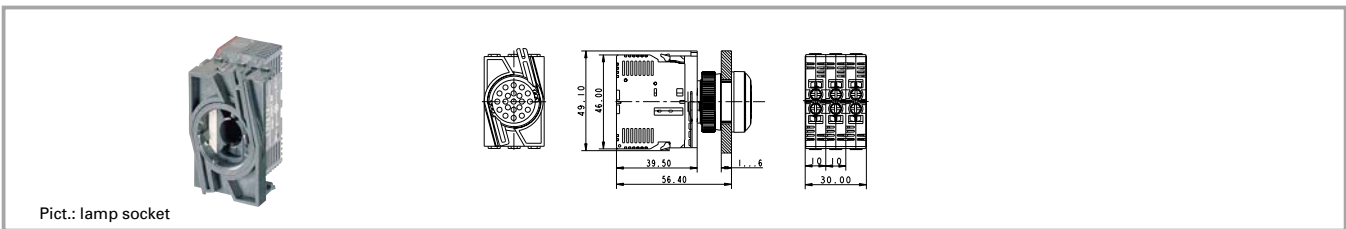
Pict.: lamp socket

Terminals	Contact arrangement	Contact materials	Lamp characteristics	Order no.
screw terminals	1 NC	Ag	BA 9 s	1.20.124.021/0000
screw terminals	1 NO	Ag	BA 9 s	1.20.124.022/0000
screw terminals	1 NC, 1 NC	Ag	BA 9 s	1.20.124.023/0000
screw terminals	1 NO , 1 NO	Ag	BA 9 s	1.20.124.024/0000
screw terminals	1 NO , 1 NC	Ag	BA 9 s	1.20.124.025/0000
screw terminals	1 NC + 1 NO	Ag	BA 9 s	**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 - 124

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

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

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

2

RAFIX
22 QR

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

RAFI
SOLUTIONS WITH PASSION

RAFIX 22 QR contact blocks with gold contacts

Pict.: Gold contacts, 1 NC, screw terminals

Gold contacts, 1 NO, cage clamp terminals

Assembly: Gold contacts, 1NC + 1NO

2

General data

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

Technical data

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 cleaning
Contact materials	Au
Contact arrangement	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^2
Wire range stranded wires without wire end sleeves	2 x 1,0 ... 1,5 mm^2
Stripping length, solid or stranded	8 mm
Wire range with wire end sleeves	2 x 0,75 ... 1,5 mm^2

Electrical characteristics

Operating voltage AC/DC	1 ... 42 V
Operating current AC/DC	0,01 ... 100 mA
Rated power max.	1W (ohmic load)

Lamp characteristics

Lamp socket	BA 9 s

Other specifications

Operating life	1 million at 10 mA/ 24 V DC
Switching reliability at 24V/5mA DC	10×10^{-6}
Robustness	acc. IEC 60947-5-5
Corresponding to CE	acc. EU-guideline N 72/73
Shock resistance acc. to IEC 600 68-2-27	50 g at 11 ms, amplitude half sinusoidal
Resistance to vibrations acc. to IEC 600 68-2-6	10 g at 40 ... 500 Hz
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Resistance to constant environment	IEC 600 68-2-3 and 2-30
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

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

Control components

RAFI
SOLUTIONS WITH PASSION

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

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

2

RAFIX 22 QR contact block with gold contacts

Pict.: Gold contacts, 1 NC, screw terminals   Gold contacts, 1 NO, cage clamp terminals   Gold contacts, quick connector, 1NO

Terminals	Contact arrangement	Contact materials	Lamp socket	Order no.
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**
solder/quick connector 6.3 x 0.8 mm	1 NC	Au		**5.00.100.193/0000**
solder/quick connector 6.3 x 0.8 mm	1 NO	Au		**5.00.100.195/0000**

NEW

Technical data see page 2 - 128

Control components

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

RAFIX 22 QR contact block assembly, with coupling, without lamp socket, gold contacts
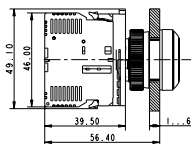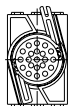
Pict.: Gold contacts, 1NC + 1NO

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

Technical data see page 2 - 128

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

Control components

RAFIX 22 QR contact block assembly, with coupling and lamp socket, gold contacts
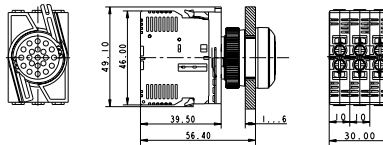
Pict.: Silver contacts, 1NC+1NO, lamp socket, 1NC+1NO

Terminals	Contact arrangement	Contact materials	Lamp socket	Order no.
screw terminals	1 NC	Au	BA 9 s	1.20.124.121/0000
screw terminals	1 NO	Au	BA 9 s	1.20.124.122/0000
screw terminals	1 NC, 1 NC	Au	BA 9 s	1.20.124.123/0000
screw terminals	1 NO , 1 NO	Au	BA 9 s	1.20.124.124/0000
screw terminals	1 NO , 1 NC	Au	BA 9 s	1.20.124.125/0000
screw terminals	1 NC + 1 NO	Au	BA 9 s	1.20.124.127/0000
screw terminals	1 NC + 1 NO , 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

2

Technical data see page 2 - 128

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

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

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

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SOLUTIONS WITH PASSION

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

Pict.: with RJ 12 adapter   with LED   wiring

2

RAFIX 22 QR
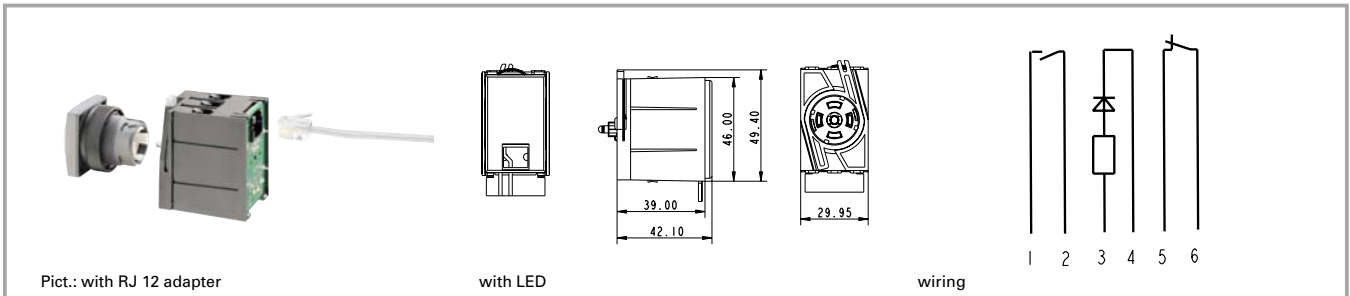
Technical data

Dimensions

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

Mechanical design

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

Electrical characteristics

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

Other specifications

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

Control components

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

Pict.: with RJ 12 adapter

Wiring

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

Technical data see page 2 - 132

Other contact arrangement versions available on request.

2

RAFIX
22 QR

RAFI
SOLUTIONS WITH PASSION

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

with contact block

2

Technical data

Dimensions

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

Mechanical design

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

Lamp characteristics

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

Other specifications

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

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)		**1.90.560.102/0000**	5 - 9
LED BA 9s (MBC/MCC) superbright, red, 24 V		**1.90.690.341/0000**	5 - 19
LED BA 9s (MBC/MCC) superbright, green, 24 V		**1.90.690.342/0000**	5 - 19
LED BA 9s (MBC/MCC) superbright, yellow, 24 V		**1.90.690.343/0000**	5 - 19

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

Control components

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 - 19
LED BA 9s (MBC/MCC) superbright, white, 24 V		**1.90.690.345/0000**	5 - 19
Coupling with reference numbers 1-3-2, for contact blocks with single contacts		**5.05.510.935/0000**	2 - 143
Coupling with reference numbers 1/2-5/6-3/4, for contact blocks with double contacts		**5.05.510.936/0000**	2 - 143
Marking tag for contact blocks/lamp sockets with screw terminals		5.40.010.131/0000	2 - 145

2

RAFIX 22 QR

RAFIX 22 QR lamp socket, without coupling
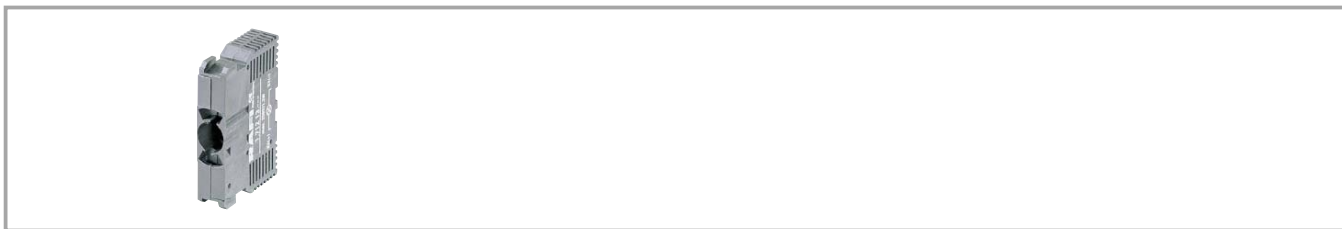
Terminals	Diode and resistor	Approvals	Lamp socket	Operating voltage AC/DC	Lamp voltage	Order no.
screw terminals	no	ENEC 10/15; ULc	BA 9 s	6 ... 250 V	6 ... 250 V	**5.00.070.074/0000**
screw terminals	yes	ENEC 10/15; ULc	BA 9 s	250 V	130 V	**5.00.070.080/0000**
clamp cage	no	ENEC 10/15; ULc	BA 9 sBA 9 s	6 ... 250 V	6 ... 250 V	**5.00.070.078/0000**
solder/quick connec-tor 6.3 x 0.8 mm	no	ENEC 10/15; ULc	BA 9 s	6 ... 250 V	6 ... 250 V	**5.00.070.087/0000**

NEW

Technical data see page 2 - 134

RAFIX 22 QR lamp socket assembly, with coupling
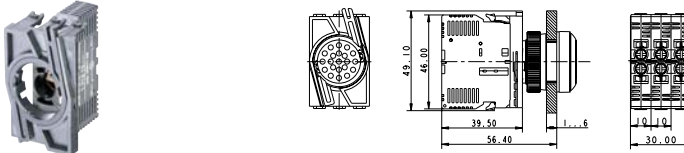
Pict.: Lamp socket with cage clamp terminals

Terminals	Diode and resistor	Approvals	Lamp socket	Operating voltage AC/DC	Lamp voltage	Order no.
screw terminals	no	ENEC 10/15; 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 s	6 ... 250 V	6 ... 250 V	**1.71.214.001/0000**

Technical data see page 2 - 134

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

Control components

RAFI
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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	snap on coupling and actuator
Diode and resistor	see order block
LED colour	see order block
Terminals	screw terminals
Terminal marking	X1 = anode, X2 = cathode

Lamp characteristics

Operating voltage	see order block
Max. current, I_F	see order block

Other specifications

Approvals	ENEC 10/15; ULc
Robustness	acc. IEC 60947-5-5
Shock resistance acc. to IEC 600 68-2-27	50 g at 11 ms, amplitude half sinusoidal
Resistance to vibrations acc. to IEC 600 68-2-6	10 g at 40 ... 500 Hz
Resistance to constant environment	IEC 600 68-2-3 and 2-30
Resistance at variable environment	IEC 600 68-2-14 and 2-33
Ambient temp. operating min.	-20 °C
Ambient temp. operating max.	+65 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes

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

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

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

Control components

RAFIX 22 QR lamp socket with integrated LED, without coupling

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

Technical data see page 2 - 138

2

Stock items are marked
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RAFIX 22 QR special accessories

light grey/dark grey

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 - 23

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**

Stock items are marked
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Control components

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Lenses for flush pushbuttons

Pict.: yellow
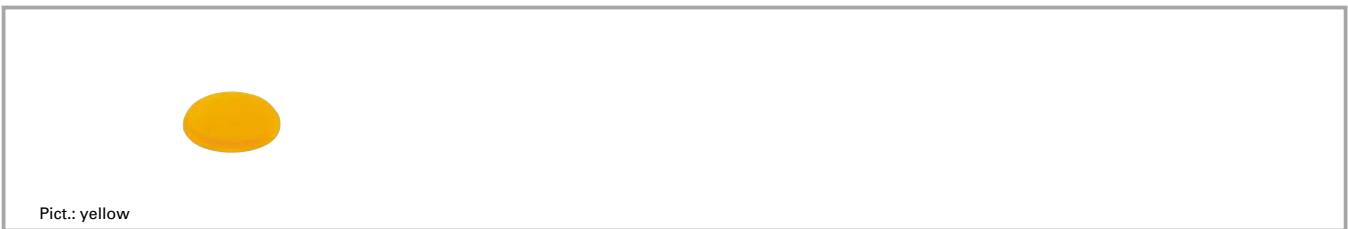
Short text	Feature 1	Feature 2	Order no.
Lens, with diffuser	transparent colourless	flat lens	**5.04.926.008/1000**
Lens, with diffuser	transparent red	flat lens	**5.04.926.008/1300**
Lens, with diffuser	transparent yellow	flat lens	**5.04.926.008/1400**
Lens, with diffuser	transparent green	flat lens	**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

Control components

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

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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**

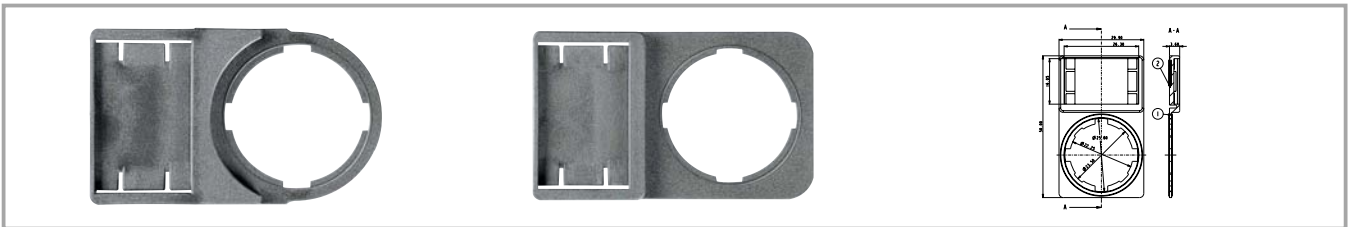## RAFIX 22 QR plastic front ring with thermoflex protective cap

Pict.: slate-grey

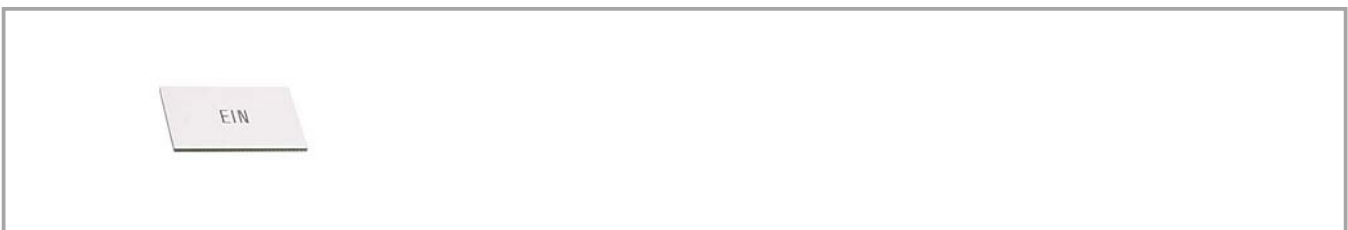| Short text	Feature 1	Feature 2	Order no.
Front ring, plastic with protective cap, slate grey	slate-grey		**5.05.004.914/0700**
Front ring, plastic with thermoflex protective cap, silver grey	silver-grey		**5.05.004.914/0800**
Front ring, plastic with thermoflex protective cap, black	black		**5.05.004.914/0100**

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

Control components

SOLUTIONS WITH PASSION

Label holder

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

Legend label to clip into label holder 5.07.620.xxx

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

Coupling

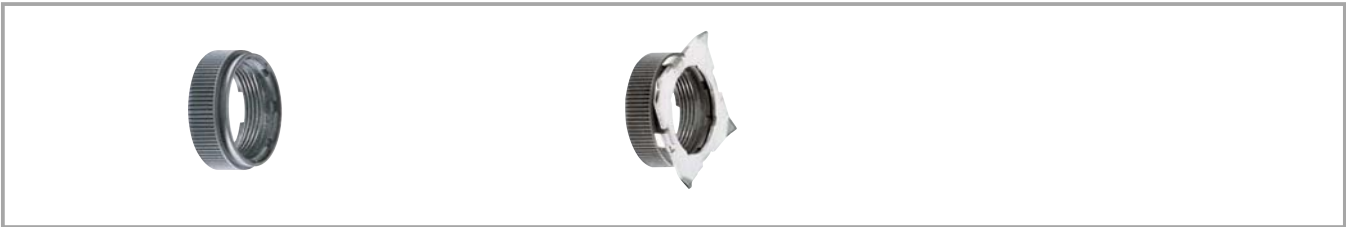| Short text	Feature 1	Feature 2	Order no.
Coupling with reference numbers 1-3-2, for contact blocks with single contacts			**5.05.510.935/0000**
Coupling with reference numbers 1/2-5/6-3/4, for contact blocks with double contacts			**5.05.510.936/0000**

2

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

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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**

Ring nut

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

Lamp tester

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

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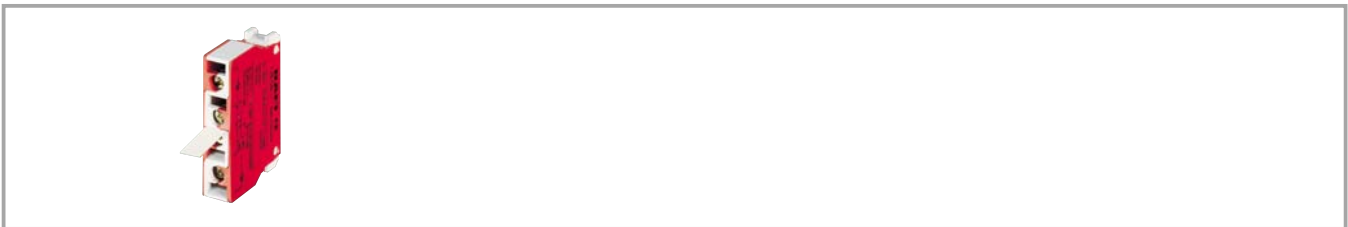by **bold printed** order numbers.

Control components

Protective cover, suitable for pushbuttons with flush lens

Pict.: protective lid

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

Marking tag

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

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

Insulating housing IP65 for RAFIX 22 QR

Pict.: 3-module

30.10   30.10
100.00
115.00   74
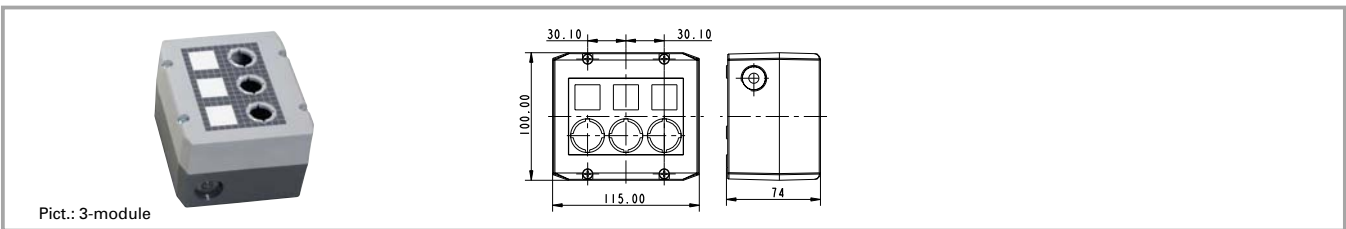
Short text	Feature 1	Feature 2	Order no.
Insulating housing IP65 for 22 QR, 1-module, light grey/dark grey	100 mm	55 mm	**1.20.810.201/0000**
Insulating housing IP65 for 22 QR, 1-module, yellow/yellow	100 mm	55 mm	**1.20.810.202/0000**
Insulating housing IP65 for 22 QR, 2-module, light grey/dark grey	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**

• 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
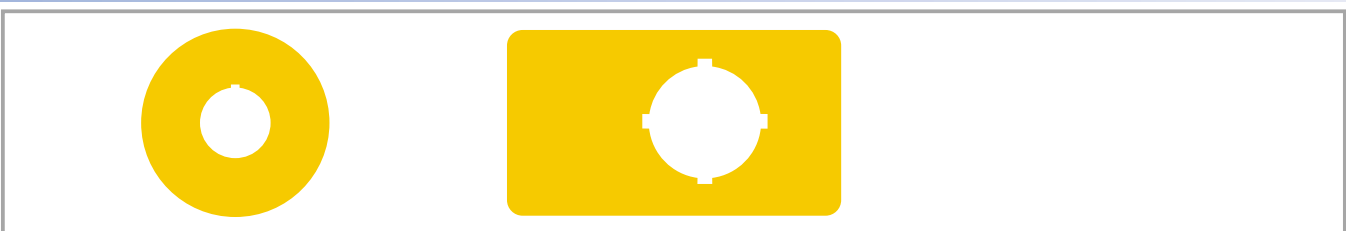
Short text	Feature 1	Feature 2	Order no.
Emergency stop label, yellow, round 60 mm, rigid PVC, with legend „NOT-AUS"		60 mm	**5.76.207.001/0400**
Emergency stop label, yellow, round 60 mm, rigid PVC, with legend „EMERGENCY-STOP/ARRET D'URGENCE"		60 mm	**5.76.207.002/0400**
Emergency stop label, yellow, 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.

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

Control components

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