

## General data

## RAFIX 22 FS control component range

- For a mounting hole diameter of 22.3 mm to IEC 60947
- Contact blocks with gold or silver contacts
- Depth behind panel only 9.2 mm
- Water-jet proof IP65
- 2 collar shapes
- The contact blocks can be combined with other components on the same PCB.

The specified data apply only if actuators/signal indicators are combined with contact blocks and lamp sockets within the same product range.
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The new RAFIX 22 FS control component range can be combined on a common printed circuit board together with short-travel keys and other components thanks to its extremely small mounting depth of 9.2 mm .

The actuators and signal indicators are fastened to the front panel with a threaded ring in a 22.3 mm panel cutout to IEC 60947. The cast-on collar seal made of thermoflex and an integrated special membrane provide a water-jet proof degree of protection IP 65 to DIN.


The contact blocks are soldered onto the PCB. Illumination of the actuator is provided by a 3 mm LED inserted into the base of the contact block and soldered to the PCB together with the contact block.

The printed circuit board is fastened to the front panel with bolts, with the contact blocks sliding almost completely into the actuators. In this way an extremely low profile is achieved. Additional advantages: Individual wiring is made unnecessary and there is no more need for a cut-out in the PCB in the control component areas.

Screw-on front ring made of plastic or metallized


transparent (illuminated) or opaque


Diffuser
(for transparent lenses only)

Actuator with
O-ring seal and special membrane.

Housing with integrated cast-on collar seal,
front panel
thickness 1-3 mm
Threaded ring


Contact block
(optionally with LED installed):

- 1 NC, 1 NO, 2 NC, 1 NC + 1 NO, 2 NO
(colour-coded plungers:
$\mathrm{NC}=$ red, $\mathrm{NO}=$ green )
- Gold contacts for 42 V max (grey housing) or silver contacts for max. 250 V
(black housing)
- Locating pip for correct assembly

Printed circuit board -



## Combined with short-travel keys

The actuators of the RAFIX 22FS system are suited for integration into low-profile data entry systems. The small mounting depth and the PCB solder terminals make it possible to combine the contact blocks with Rafi short-travel keys RACON 8 an 12, RF 15 and RF 19 as well as KN 19 on one and the same printed circuit board.

## Illumination

RAFIX 22 FS pushbuttons, selector switches and emergency stop buttons are also available as illuminated versions. For illumination, we recommend to use the superbright 3 mm LEDs in the colour matching the lens. The LEDs are fitted into the contact block and soldered together with it. The signal indicators are als illuminated with superbright LEDs soldered directly onto the printed circuit board. In order to ensure full illumination, the LED must be mounted on a base. Bases are available as accessories.

## Sealed against moisture and dirt

## O-ring seal

The O-ring seals the space between the lens and the actuator. The cast-on collar seal cannot be lost or distorted during assembly. During 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


The special membrane seal safely prevents moisture, oil or dust from reaching the contact block. In contrast with seals sliding up and down along the shaft, the special membrane seal is arranged in a fixed position on the housing. In this way, RAFIX 22 FS guarentees switching raliability for the full service life (degree of protection IP65 to DIN).


## Numerous design options for individual panels

RAFIX 22 FS is available with many options. Various lens and frontring combinations offer nearly unlimited design options for your panels. RAFIX 22 FS ist available both with a round or a square collar.

The square version can be arranged one collar to the next just as an integral keypad.



## Panel cut-out to IEC 60947

All actuators are provided with a locating pip.
With a grid spacing of 30 mm , the collars of the square actuators are arranged next to each other without a space in between. We recommend to use this grid spacing also for the round collar shapes (IEC 60947).

## Assembly indication

The mismatch of actuators and contact blocks must be in a range of $\varnothing 0.2 \mathrm{~mm}$.

Hole patterns PCB, view on component side

NO contacts
(on version with 2 NC's, NC contacts)

Locating pip 2*

LED anode

NC contacts
(on version with 2 NO's, NO contacts)

* For better distinction the locating pip 2 has a bigger diameter than pip 1. In order to ease the mounting, the positions are additionally marked on the upper side of the housing.


## Installation drawing



2

## RAFIX 22 FS pushbuttons



## Technical data

## General information

Form of lens
Colour of lens
Colout of front ring Form of collar

## Dimensions

Length of collar
Width of collar Overall height Mounting depth Mounting hole Key grid
Diameter of collar
Mechanical design Mounting
Contact function Illuminability
see order block see order block see order block see order block
see order block see order block see order block 9.2 mm 22.3 mm $30 \times 30 \mathrm{~mm}$ see order block
ring nut see order block yes

## Mechanical characteristics

Operating travel 4 mm
Robustness min.
100 N

## Other specifications

Ambient temp. operating min.
$-25^{\circ} \mathrm{C}$
Ambient temp. operating max.
Storage temperature min.
Storage temperature max. $\quad+80^{\circ} \mathrm{C}$
Operating life $\quad 1$ million momentary/
0,5 million latching
IP65
Degree of protection
from front side
Resistance to constant environment
Resistance at variable environment

IEC 60068-2-3 and 2-30
IEC 60068-2-14 and 2-33

## Accessories RAFIX 22 FS pushbuttons

| Description | Photo | Order no. | Page |
| :---: | :---: | :---: | :---: |
| RAFIX 22 FS universal contact block, 1 NC + 1 NO, gold contacts | $11$ | 1.20.126.003/0000 | 2-189 |
| RAFIX 22 FS universal contact block, silver contacts, 1 NO |  | 1.20.126.202/0000 | 2-191 |
| Fixing spanner for ring nut and front ring | , | 5.05.800.062/0000 | 5-25 |

For additional accessories, refer to the chapter „Special accessories".

RAFIX 22 FS pushbutton, flush lens, round collar

| Pict.: green/silver grey |  |  |  | panel cut-out acc. to IEC 60947-5-1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Illuminability | Colour of lens | Order no. momentary |  | Order no. latching |  |
|  |  | Plastic front ring | Metallized front ring | Plastic front ring | Metallized front ring |
| yes | transparent white | 1.30.250.001/10xx | 1.30.250.021/1000 | 1.30.250.011/10xx | 1.30.250.031/1000 |
| yes | transparent red | 1.30.250.001/13xx | 1.30.250.021/1300 | 1.30.250.011/13xx | 1.30.250.031/1300 |
| yes | transparent yellow | 1.30.250.001/14xx | 1.30.250.021/1400 | 1.30.250.011/14xx | 1.30.250.031/1400 |
| yes | transparent green | 1.30.250.001/15xx | 1.30.250.021/1500 | 1.30.250.011/15xx | 1.30.250.031/1500 |
| yes | transparent blue | 1.30.250.001/16xx | 1.30.250.021/1600 | 1.30.250.011/16xx | 1.30.250.031/1600 |
| no | opaque black | 1.30.250.101/01xx | 1.30.250.121/0100 | 1.30.250.111/01xx | 1.30.250.131/0100 |
| no | opaque white | 1.30.250.101/02xx | 1.30.250.121/0200 | 1.30.250.111/02xx | 1.30.250.131/0200 |
| no | opaque red | 1.30.250.101/03xx | 1.30.250.121/0300 | 1.30.250.111/03xx | 1.30.250.131/0300 |
| no | opaque yellow | 1.30.250.101/04xx | 1.30.250.121/0400 | 1.30.250.111/04xx | 1.30.250.131/0400 |
| no | opaque green | 1.30.250.101/05xx | 1.30.250.121/0500 | 1.30.250.111/05xx | 1.30.250.131/0500 |
| no | opaque blue | 1.30.250.101/06xx | 1.30.250.121/0600 | 1.30.250.111/06xx | 1.30.250.131/0600 |
| no | opaque slate-grey | 1.30.250.101/07xx | 1.30.250.121/0700 | 1.30.250.111/07xx | 1.30.250.131/0700 |

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## Accessories:

Plastic frontring black with protection cap: 5.05.004.986/0100
Plastic frontring red with protection cap: 5.05.004.986/0300
Plastic frontring yellow with protection cap: 5.05.004.986/0400
Plastic frontring green with protection cap: 5.05.004.986/0500
Plastic frontring blue with protection cap: 5.05.004.986/0600
Plastic frontring slate grey with protection cap: 5.05.004.986/0700
Plastic frontring silver grey with protection cap: 5.05.004.986/0800
Legend insert without legend: 5.70.800.000/2000
$x x=$ Front ring colour: black $=01$, red $=03$, yellow $=04$, green $=05$, blue $=06$, slate grey $=07$, silver grey $=08$
Order numbers $\mathbf{1 . 3 0 . 2 5 0 . 0 0 1 / - 0 8}$ and $\mathbf{1 . 3 0 . 2 5 0 . 0 1 1 / - 0 8 ( w i t h ~ s i l v e r ~ g r e y ~ p l a s t i c ~ f r o n t ~ r i n g ) ~ a r e ~ s t o c k ~ i t e m s . ~}$

RAFIX 22 FS pushbutton, protruding lens, round collar

| Pict.: black/metallized |  |  |  | panel cut-out acc. to IEC 60947-5-1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Illuminability | Colour of lens | Order no. momentary |  | Order no. latching |  |
|  |  | Plastic front ring | Metallized front ring | Plastic front ring | Metallized front ring |
| yes | transparent white | 1.30.250.201/10xx | 1.30.250.221/1000 | 1.30.250.211/10xx | 1.30.250.231/1000 |
| yes | transparent red | 1.30.250.201/13xx | 1.30.250.221/1300 | 1.30.250.211/13xx | 1.30.250.231/1300 |
| yes | transparent yellow | 1.30.250.201/14xx | 1.30.250.221/1400 | 1.30.250.211/14xx | 1.30.250.231/1400 |
| yes | transparent green | 1.30.250.201/15xx | 1.30.250.221/1500 | 1.30.250.211/15xx | 1.30.250.231/1500 |
| yes | transparent blue | 1.30.250.201/16xx | 1.30.250.221/1600 | 1.30.250.211/16xx | 1.30.250.231/1600 |
| no | opaque black | 1.30.250.301/01xx | 1.30.250.321/0100 | 1.30.250.311/01xx | 1.30.250.331/0100 |
| no | opaque white | 1.30.250.301/02xx | 1.30.250.321/0200 | 1.30.250.311/02xx | 1.30.250.331/0200 |
| no | opaque red | 1.30.250.301/03xx | 1.30.250.321/0300 | 1.30.250.311/03xx | 1.30.250.331/0300 |
| no | opaque yellow | 1.30.250.301/04xx | 1.30.250.321/0400 | 1.30.250.311/04xx | 1.30.250.331/0400 |
| no | opaque green | 1.30.250.301/05xx | 1.30.250.321/0500 | 1.30.250.311/05xx | 1.30.250.331/0500 |
| no | opaque blue | 1.30.250.301/06xx | 1.30.250.321/0600 | 1.30.250.311/06xx | 1.30.250.331/0600 |
| no | opaque slate-grey | 1.30.250.301/07xx | 1.30.250.321/0700 | 1.30.250.311/07xx | 1.30.250.331/0700 |

Technical data see page 2-168

## Accessories:

Legend insert without legend: 5.70.802.000/2000
$x x=$ Front ring colour: black $=01$, red $=03$, yellow $=04$, green $=05$, blue $=06$, slate grey $=07$, silver grey $=08$
Order numbers $\mathbf{1 . 3 0 . 2 5 0 . 2 0 1}$ /-08 and $\mathbf{1 . 3 0 . 2 5 0 . 2 1 1 / - 0 8 ( w i t h ~ s i l v e r ~ g r e y ~ p l a s t i c ~ f r o n t ~ r i n g ) ~ a r e ~ s t o c k ~ i t e m s . ~}$

RAFIX 22 FS pushbutton, protruding front ring, round collar

| Pict.: white/slate grey |  | 1 $\widetilde{x}$ 1 $8.75$ |  | panel cut-out acc. to IEC 60947-5-1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Illuminability | Colour of lens | Order no. momentary |  | Order no. latching |  |
|  |  | Plastic front ring | Metallized front ring | Plastic front ring | Metallized front ring |
| yes | transparent white | 1.30.250.401/10xx | 1.30.250.421/1000 |  |  |
| yes | transparent red | 1.30.250.401/13xx | 1.30.250.421/1300 |  |  |
| yes | transparent yellow | 1.30.250.401/14xx | 1.30.250.421/1400 |  |  |
| yes | transparent green | 1.30.250.401/15xx | 1.30.250.421/1500 |  |  |
| yes | transparent blue | 1.30.250.401/16xx | 1.30.250.421/1600 |  |  |
| no | opaque black | 1.30.250.501/01xx | 1.30.250.521/0100 |  |  |
| no | opaque white | 1.30.250.501/02xx | 1.30.250.521/0200 |  |  |
| no | opaque red | 1.30.250.501/03xx | 1.30.250.521/0300 |  |  |
| no | opaque yellow | 1.30.250.501/04xx | 1.30.250.521/0400 |  |  |
| no | opaque green | 1.30.250.501/05xx | 1.30.250.521/0500 |  |  |
| no | opaque blue | 1.30.250.501/06xx | 1.30.250.521/0600 |  |  |
| no | opaque slate-grey | 1.30.250.501/07xx | 1.30.250.521/0700 |  |  |

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## Accessories:

Legend insert without legend: 5.70.800.000/2000
$x x=$ Front ring colour: black $=01$, red $=03$, yellow $=04$, green $=05$, blue $=06$, slate grey $=07$, silver grey $=08$

RAFIX 22 FS pushbutton, flush lens, square collar

| Pict.: blue/silver grey |  |  |  | panel cut-out acc. to IEC 60947-5-1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Illuminability | Colour of lens | Order no. momentary |  | Order no. latching |  |
|  |  | Plastic front ring | Metallized front ring | Plastic front ring | Metallized front ring |
| yes | transparent white | 1.30.250.051/10xx | 1.30.250.071/1000 | 1.30.250.061/10xx | 1.30.250.081/1000 |
| yes | transparent red | 1.30.250.051/13xx | 1.30.250.071/1300 | 1.30.250.061/13xx | 1.30.250.081/1300 |
| yes | transparent yellow | 1.30.250.051/14xx | 1.30.250.071/1400 | 1.30.250.061/14xx | 1.30.250.081/1400 |
| yes | transparent green | 1.30.250.051/15xx | 1.30.250.071/1500 | 1.30.250.061/15xx | 1.30.250.081/1500 |
| yes | transparent blue | 1.30.250.051/16xx | 1.30.250.071/1600 | 1.30.250.061/16xx | 1.30.250.081/1600 |
| no | opaque black | 1.30.250.151/01xx | 1.30.250.171/0100 | 1.30.250.161/01xx | 1.30.250.181/0100 |
| no | opaque white | 1.30.250.151/02xx | 1.30.250.171/0200 | 1.30.250.161/02xx | 1.30.250.181/0200 |
| no | opaque red | 1.30.250.151/03xx | 1.30.250.171/0300 | 1.30.250.161/03xx | 1.30.250.181/0300 |
| no | opaque yellow | 1.30.250.151/04xx | 1.30.250.171/0400 | 1.30.250.161/04xx | 1.30.250.181/0400 |
| no | opaque green | 1.30.250.151/05xx | 1.30.250.171/0500 | 1.30.250.161/05xx | 1.30.250.181/0500 |
| no | opaque blue | 1.30.250.151/06xx | 1.30.250.171/0600 | 1.30.250.161/06xx | 1.30.250.181/0600 |
| no | opaque slate-grey | 1.30.250.151/07xx | 1.30.250.171/0700 | 1.30.250.161/07xx | 1.30.250.181/0700 |

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## Accessories:

Plastic frontring black with protection cap: 5.05.004.986/0100
Plastic frontring red with protection cap: 5.05.004.986/0300
Plastic frontring yellow with protection cap: 5.05.004.986/0400
Plastic frontring green with protection cap: 5.05.004.986/0500
Plastic frontring blue with protection cap: 5.05.004.986/0600
Plastic frontring slate grey with protection cap: 5.05.004.986/0700
Plastic frontring silver grey with protection cap: 5.05.004.986/0800
Legend insert without legend: 5.70.800.000/2000
$x x=$ Front ring colour: black $=01$, red $=03$, yellow $=04$, green $=05$, blue $=06$, slate grey $=07$, silver grey $=08$
Order numbers $\mathbf{1 . 3 0 . 2 5 0 . 0 5 1} /-08$ and $\mathbf{1 . 3 0 . 2 5 0 . 0 6 1 / — 0 8}$ (with silver grey plastic front ring) are stock items.

RAFIX 22 FS pushbutton, protruding lens, square collar

| Pict.: white/blue |  |  |  | $\phi_{22}$ <br> panel cut-out acc. to IEC 60947-5-1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Illuminability | Colour of lens | Order no. momentary |  | Order no. latching |  |
|  |  | Plastic front ring | Metallized front ring | Plastic front ring | Metallized front ring |
| yes | transparent white | 1.30.250.251/10xx | 1.30.250.271/1000 | 1.30.250.261/10xx | 1.30.250.281/1000 |
| yes | transparent red | 1.30.250.251/13xx | 1.30.250.271/1300 | 1.30.250.261/13xx | 1.30.250.281/1300 |
| yes | transparent yellow | 1.30.250.251/14xx | 1.30.250.271/1400 | 1.30.250.261/14xx | 1.30.250.281/1400 |
| yes | transparent green | 1.30.250.251/15xx | 1.30.250.271/1500 | 1.30.250.261/15xx | 1.30.250.281/1500 |
| yes | transparent blue | 1.30.250.251/16xx | 1.30.250.271/1600 | 1.30.250.261/16xx | 1.30.250.281/1600 |
| no | opaque black | 1.30.250.351/01xx | 1.30.250.371/0100 | 1.30.250.361/01xx | 1.30.250.381/0100 |
| no | opaque white | 1.30.250.351/02xx | 1.30.250.371/0200 | 1.30.250.361/02xx | 1.30.250.381/0200 |
| no | opaque red | 1.30.250.351/03xx | 1.30.250.371/0300 | 1.30.250.361/03xx | 1.30.250.381/0300 |
| no | opaque yellow | 1.30.250.351/04xx | 1.30.250.371/0400 | 1.30.250.361/04xx | 1.30.250.381/0400 |
| no | opaque green | 1.30.250.351/05xx | 1.30.250.371/0500 | 1.30.250.361/05xx | 1.30.250.381/0500 |
| no | opaque blue | 1.30.250.351/06xx | 1.30.250.371/0600 | 1.30.250.361/06xx | 1.30.250.381/0600 |
| no | opaque slate-grey | 1.30.250.351/07xx | 1.30.250.371/0700 | 1.30.250.361/07xx | 1.30.250.381/0700 |

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## Accessories:

Legend insert without legend: 5.70.802.000/2000
$x x=$ Front ring colour: black $=01$, red $=03$, yellow $=04$, green $=05$, blue $=06$, slate grey $=07$, silver grey $=08$
Order numbers $\mathbf{1 . 3 0 . 2 5 0 . 2 5 1 / - 0 8}$ and $\mathbf{1 . 3 0 . 2 5 0 . 2 6 1 / - 0 8 ( w i t h ~ s i l v e r ~ g r e y ~ p l a s t i c ~ f r o n t ~ r i n g ) ~ a r e ~ s t o c k ~ i t e m s . ~}$

## RAFIX 22 FS pushbutton, protruding front ring



| 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 | 1.30.250.451/10xx | 1.30.250.471/1000 |  |  |
| yes | transparent red | 1.30.250.451/13xx | 1.30.250.471/1300 |  |  |
| yes | transparent yellow | 1.30.250.451/14xx | 1.30.250.471/1400 |  |  |
| yes | transparent green | 1.30.250.451/15xx | 1.30.250.471/1500 |  |  |
| yes | transparent blue | 1.30.250.451/16xx | 1.30.250.471/1600 |  |  |
| no | opaque black | 1.30.250.551/01xx | 1.30.250.571/0100 |  |  |
| no | opaque white | 1.30.250.551/02xx | 1.30.250.571/0200 |  |  |
| no | opaque red | 1.30.250.551/03xx | 1.30.250.571/0300 |  |  |
| no | opaque yellow | 1.30.250.551/04xx | 1.30.250.571/0400 |  |  |
| no | opaque green | 1.30.250.551/05xx | 1.30.250.571/0500 |  |  |
| no | opaque blue | 1.30.250.551/06xx | 1.30.250.571/0600 |  |  |
| no | opaque slate-grey | 1.30.250.551/07xx | 1.30.250.571/0700 |  |  |

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## Accessories:

Legend insert without legend: 5.70.800.000/2000
$x x=$ Front ring colour: black $=01$, red $=03$, yellow $=04$, green $=05$, blue $=06$, slate grey $=07$, silver grey $=08$

RAFIX 22 FS selector switches


## General data

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

## Technical data

## General information

Form of lens
Colour of lens
Colout of front ring
Form of collar

## Dimensions

Length of collar

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

## Mechanical design

Mounting
Contact function
Illuminability
Rotating angle
handle
translucent/opaque white see order block see order block
see order block
see order block
22.24 mm
9.2 mm
22.3 mm
$30 \times 30 \mathrm{~mm}$
see order block
ring nut
see order block
yes
see order block

Mechanical characteristics
Torque max.
1.5 Nm

Other specifications
Operating life
Degree of protection
from front side
Ambient temp. operating min.
Ambient temp. operating max.
Storage temperature min.
Storage temperature max.
Resistance to constant environment
Resistance at variable
environment

RAFIX 22 FS selector switch, round collar

|  |  |  |  | Einbauöffung nach IEC 60947-5-1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Illuminability | Contact function | Rotating angle | Drehwinkel | Order no. |  |
|  |  |  |  | Plastic front ring | Metal front ring |
| yes | momentary | $1 \times 40^{\circ}$ |  | 1.30.252.001/22xx | 1.30.252.002/2200 |
| yes | momentary | $2 \times 40^{\circ}$ |  | 1.30.252.026/22xx | 1.30.252.027/2200 |
| yes | latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $1 \times 90^{\circ}$ and $1 \times 40^{\circ}$ |  | 1.30.252.426/22xx | 1.30.252.427/2200 |
| yes | latching | $1 \times 90^{\circ}$, form L |  | 1.30.252.101/22xx | 1.30.252.102/2200 |
| yes | latching | $1 \times 90^{\circ}$, form V | $0^{1}$ | 1.30.252.201/22xx | 1.30.252.202/2200 |
| yes | latching | $2 \times 60^{\circ}$ |  | 1.30.252.301/22xx | 1.30.252.302/2200 |
| yes | latching | $2 \times 90^{\circ}$ |  | 1.30.252.126/22xx | 1.30.252.127/2200 |
| no | momentary | $1 \times 40^{\circ}$ |  | 1.30.252.501/02xx | 1.30.252.502/0200 |
| no | momentary | $2 \times 40^{\circ}$ |  | 1.30.252.526/02xx | 1.30.252.527/0200 |
| no | latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $1 \times 90^{\circ}$ and $1 \times 40^{\circ}$ | $+\frac{o}{y}$ | 1.30.252.926/02xx | 1.30.252.927/0200 |
| no | latching | $1 \times 90^{\circ}$, form L |  | 1.30.252.601/02xx | 1.30.252.602/0200 |
| no | latching | $1 \times 90^{\circ}$, form V | $>^{\prime}$ | 1.30.252.701/02xx | 1.30.252.702/0200 |
| no | latching | $2 \times 60^{\circ}$ |  | 1.30.252.801/02xx | 1.30.252.802/0200 |
| no | latching | $2 \times 90^{\circ}$ |  | 1.30.252.626/02xx | 1.30.252.627/0200 |

Technical data see page 2-176
$x x=$ Front ring colour: black $=01$, red $=03$, yellow $=04$, green $=05$, blue $=06$, slate grey $=07$, silver grey $=08$
Other handle marking colours available on request.
The following selector switches with silver grey plastic front ring are stock items:
Illuminated: $1.30 .242 .001 / 2208,1.30 .242 .026 / 2208,1.30 .242 .101 / 2208,1.30 .242 .201 / 2208,1.30 .242 .301 / 2208$
Non-illuminated: $1.30 .242 .501 / 0208,1.30 .242 .526 / 0208,1.30 .242 .601 / 0208,1.30 .242 .701 / 0208,1.30 .242 .801 / 0208$

RAFIX 22 FS selector switch, square collar

|  | Pict.: Front ring, metallized, illuminated |  | 8.15 -7. |  | Einbauöffung nach IEC 60947-5-1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\square$ | Illuminability | Contact function | Rotating angle | Drehwinkel |  | r no. |
|  |  |  |  |  | Plastic front ring | Metal front ring |
|  | yes | momentary | $1 \times 40^{\circ}$ |  | 1.30.252.051/22xx | 1.30.252.052/2200 |
|  | yes | momentary | $2 \times 40^{\circ}$ |  | 1.30.252.076/22xx | 1.30.252.077/2200 |
|  | yes | latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $1 \times 90^{\circ}$ and $1 \times 40^{\circ}$ |  | 1.30.252.476/22xx | 1.30.252.477/2200 |
|  | yes | latching | $1 \times 90^{\circ}$, form L |  | 1.30.252.151/22xx | 1.30.252.152/2200 |
|  | yes | latching | $1 \times 90^{\circ}$, form V |  | 1.30.252.251/22xx | 1.30.252.252/2200 |
|  | yes | latching | $2 \times 60^{\circ}$ |  | 1.30.252.351/22xx | 1.30.252.352/2200 |
|  | yes | latching | $2 \times 90^{\circ}$ |  | 1.30.252.176/22xx | 1.30.252.177/2200 |
|  | no | momentary | $1 \times 40^{\circ}$ |  | 1.30.252.551/02xx | 1.30.252.552/0200 |
| RAFIX$22 \text { FS }$ | no | momentary | $2 \times 40^{\circ}$ |  | 1.30.252.576/02xx | 1.30.252.577/0200 |
|  | no | latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $1 \times 90^{\circ}$ and $1 \times 40^{\circ}$ |  | 1.30.252.976/02xx | 1.30.252.977/0200 |
|  | no | latching | $1 \times 90^{\circ}$, form L |  | 1.30.252.651/02xx | 1.30.252.652/0200 |
|  | no | latching | $1 \times 90^{\circ}$, form V |  | 1.30.252.751/02xx | 1.30.252.752/0200 |
|  | no | latching | $2 \times 60^{\circ}$ |  | 1.30.252.851/02xx | 1.30.252.852/0200 |
|  | no | latching | $2 \times 90^{\circ}$ |  | 1.30.252.676/02xx | 1.30.252.677/0200 |

Technical data see page 2-176
$x x=$ Front ring colour: black $=01$, red $=03$, yellow $=04$, green $=05$, blue $=06$, slate grey $=07$, silver grey $=08$
Other handle marking colours available on request.
The following selector switches with silver grey plastic front ring are stock items:
Illuminated: $1.30 .252 .051 / 2205,1.30 .252 .076 / 2208,1.30 .252 .151 / 2208,1.30 .252 .251 / 2208,1.30 .252 .351 / 2208$
Non-illuminated: 1.30.252.551/0208, 1.30.252.576/0208, 1.30.252.651/0208, 1.30.252.751/0208, 1.30.252.851/0208


## Technical data

## General information <br> Colout of front ring

Form of collar

## Dimensions

Length of collar
Width of collar
Overall height
Mounting depth
Mounting hole
Key grid
Diameter of collar
Mechanical design Mounting
Contact function
Lock
Wafers
Illuminability
Lock type
Number of locking
positions
Main key
Symmetric key
Rotating angle
Key removal position
see order block see order block
see order block
see order block
44.1 mm
9.2 mm
22.3 mm
$30 \times 30 \mathrm{~mm}$
see order block
ring nut
see order block
Micromec
5
no
001
500
no
no
see order block
see order block

## Mechanical characteristics

Torque max. $\quad 1.3 \mathrm{Nm}$

## Other specifications

Operating life
0.3 Mio. tastend/ 50000 rastend
Degree of protection from front side

IP65
Ambient temp. operating
min.
$-25^{\circ} \mathrm{C}$
Ambient temp. operating max.
$+70^{\circ} \mathrm{C}$
$-40^{\circ} \mathrm{C}$
$+80^{\circ} \mathrm{C}$
IEC 600 68-2-3 and 2-30
IEC 600 68-2-14 and 2-33
15 kV
15 kV

## Accessories RAFIX 22 FS keylock switch

| Description | Photo | Order no. | Page |
| :---: | :---: | :---: | :---: |
| RAFIX 22 FS universal contact block, 1 NC | den | 1.20.126.001/0000 | 2-189 |
| RAFIX 22 FS universal contact block, silver contacts, 1 NC, 1 NO | 5ili | 1.20.126.203/0000 | 2-191 |
| Fixing spanner for ring nut and front ring | $\underline{\square}$ | 5.05.800.062/0000 | 5-25 |

For additional accessories, refer to the chapter „Special accessories".

RAFIX 22 FS keylock switch, round collar

| Pict.: blue <br> Contact function |  |  |  | Einbauöffung nach IEC 60947-5-1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rotating angle | Key removal position | Drehwinkel | Order no. |  |
|  |  |  |  | Plastic front ring | Metal front ring |
| momentary | $1 \times 40^{\circ}$ | 0 |  | 1.30.255.001/xxxx | 1.30.255.002/0000 |
| momentary | $2 \times 40^{\circ}$ | 0 |  | 1.30.255.101/xxxx | 1.30.255.102/0000 |
| latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $\begin{aligned} & 1 \times 90^{\circ} \text { and } \\ & 1 \times 40^{\circ} \end{aligned}$ | 0 | $1$ | 1.30.255.501/xxxx | 1.30.255.502/0000 |
| latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $\begin{aligned} & 1 \times 90^{\circ} \text { and } \\ & 1 \times 40^{\circ} \end{aligned}$ | 0+2 |  | 1.30.255.521/xxxx | 1.30.255.522/0000 |
| latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $\begin{aligned} & 1 \times 90^{\circ} \text { and } \\ & 1 \times 40^{\circ} \end{aligned}$ | 2 |  | 1.30.255.511/xxxx | 1.30.255.512/0000 |
| latching | $1 \times 90^{\circ}$, form L | 0 |  | 1.30.255.201/xxxx | 1.30.255.202/0000 |
| latching | $1 \times 90^{\circ}$, form L | 0+1 |  | 1.30.255.221/xxxx | 1.30.255.222/0000 |
| latching | $1 \times 90^{\circ}$, form L | 1 |  | 1.30.255.211/xxxx | 1.30.255.212/0000 |
| latching | $1 \times 90^{\circ}$, form V | 0 |  | 1.30.255.301/xxxx | 1.30.255.302/0000 |
| latching | $1 \times 90^{\circ}$, form V | 0+1 |  | 1.30.255.321/xxxx | 1.30.255.322/0000 |
| latching | $1 \times 90^{\circ}$, form V | 1 | $\bigcirc$ | 1.30.255.311/xxxx | 1.30.255.312/0000 |
| latching | $2 \times 90^{\circ}$ | 0 |  | 1.30.255.401/xxxx | 1.30.255.402/0000 |
| latching | $2 \times 90^{\circ}$ | $0+1$ |  | 1.30.255.411/xxxx | 1.30.255.412/0000 |
| latching | $2 \times 90^{\circ}$ | $0+1+2$ |  | 1.30.255.431/xxxx | 1.30.255.432/0000 |
| latching | $2 \times 90^{\circ}$ | 0+2 |  | 1.30.255.421/xxxx | 1.30.255.422/0000 |

Technical data see page 2-180
$x x x x=$ Front ring colour: black $=0100$, red $=0300$, yellow $=0400$, green $=0500$, blue $=0600$, slate grey $=0700$, silver grey $=0800$
Other lock variants available on request.
Included: 2 keys.
The following keylock switches with silver grey plastic front ring are stock items: 1.30.255.001/0800, 1.30.255.201/0800, 1.30.255.221/0800, 1.30.255.301/0800, 1.30.255.321/0800, 1.30.255.431/0800

## RAFIX 22 FS keylock switch, square collar

| Pict.: red |  |  |  | Einbauöffung nach IEC 60947-5-1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Contact function | Rotating angle | Key removal position | Drehwinkel | Order no. |  |
|  |  |  |  | Plastic front ring | Metal front ring |
| momentary | $1 \times 40^{\circ}$ | 0 |  | 1.30.255.051/xxxx | 1.30.255.052/0000 |
| momentary | $2 \times 40^{\circ}$ | 0 |  | 1.30.255.151/xxxx | 1.30.255.152/0000 |
| latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $\begin{aligned} & 1 \times 90^{\circ} \text { and } \\ & 1 \times 40^{\circ} \end{aligned}$ | 0 | ${ }_{2} 1$ | 1.30.255.551/xxxx | 1.30.255.552/0000 |
| latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $\begin{aligned} & 1 \times 90^{\circ} \text { and } \\ & 1 \times 40^{\circ} \end{aligned}$ | 0+2 |  | 1.30.255.571/xxxx | 1.30.255.572/0000 |
| latching $1 \times 90^{\circ}$ and momentary $1 \times 40^{\circ}$ | $\begin{aligned} & 1 \times 90^{\circ} \text { and } \\ & 1 \times 40^{\circ} \end{aligned}$ | 2 | $\square$ | 1.30.255.561/xxxx | 1.30.255.562/0000 |
| latching | $1 \times 90^{\circ}$, form L | 0 |  | 1.30.255.251/xxxx | 1.30.255.252/0000 |
| latching | $1 \times 90^{\circ}$, form L | 0+1 |  | 1.30.255.271/xxxx | 1.30.255.272/0000 |
| latching | $1 \times 90^{\circ}$, form L | 1 |  | 1.30.255.261/xxxx | 1.30.255.262/0000 |
| latching | $1 \times 90^{\circ}$, form V | 0 |  | 1.30.255.351/xxxx | 1.30.255.352/0000 |
| latching | $1 \times 90^{\circ}$, form V | 0+1 |  | 1.30.255.371/xxxx | 1.30.255.372/0000 |
| latching | $1 \times 90^{\circ}$, form V | 1 | ${ }^{\circ}$ | 1.30.255.361/xxxx | 1.30.255.362/0000 |
| latching | $2 \times 90^{\circ}$ | 0 |  | 1.30.255.451/xxxx | 1.30.255.452/0000 |
| latching | $2 \times 90^{\circ}$ | 0+1 |  | 1.30.255.461/xxxx | 1.30.255.462/0000 |
| latching | $2 \times 90^{\circ}$ | $0+1+2$ |  | 1.30.255.481/xxxx | 1.30.255.482/0000 |
| latching | $2 \times 90^{\circ}$ | 0+2 |  | 1.30.255.471/xxxx | 1.30.255.472/0000 |

Technical data see page 2-180
$x x x x=$ Front ring colour: black $=0100$, red $=0300$, yellow $=0400$, green $=0500$, blue $=0600$, slate grey $=0700$, silver grey $=0800$
Other lock variants available on request.
Included: 2 keys.
The following keylock switches with silver grey plastic front ring are stock items: 1.30.255.051/0800, 1.30.255.251/0800, 1.30.255.271/0800, 1.30.255.351/0800, 1.30.255.371/0800, 1.30.255.481/0800

RAFIX 22 FS emergency stop pushbutton
Pict. red panel cut-out acc. to IEC 60947-5-1

## General data

The emergency stop pushbuttons comply with IEC 60 204, IEC 60073 , IEC 60947 and VDE 0113 Part 1. They are designed dupe-proof according to EN 418 with a positive mechanical movement sequence. A certain operating force must be exerted at the action point in order to prevent inadvertent operation. The pushbutton latches when pressed and is reset by turning it in a clockwise direction.
The special shape of the actuator prevents the emergency stop pushbutton from being blocked. This means that the emergency stop process - once initiated - cannot be impeded by any jamming objects.

Only use contact block 1.20.126.4xx.

## Technical data

Form of lens conical mushroom form
Colour of lens
Form of collar

## Dimensions

Mushroom Diameter
Overall height
Mounting depth
Mounting hole
Key grid
Diameter of collar

## Mechanical design

Mounting
Contact function
Illuminability
red
round

30 mm
33.2 mm
9.2 mm
22.3 mm
$30 \times 30 \mathrm{~mm}$
29.8 mm
ring nut
latching
see order block

Mechanical characteristics
Robustness min.
100 N

## Other specifications

Ambient temp. operating min.
Ambient temp. operating Approvals acc. to IEC

Approvals, other
Robustness
Operating life
Degree of protection
from front side
Storage temperature min
Storage temperature max. $\quad+80^{\circ} \mathrm{C}$
Resistance to constant environment
Resistance at variable environment
$-40^{\circ} \mathrm{C}$
$-25^{\circ} \mathrm{C}$
$+70^{\circ} \mathrm{C}$
60947-5-x, 60204, 60073, 601058
UL 508, CSA, cURuS
(UL + CSA)
acc. IEC 600 68-2-3 and 2-30 50000

IP65

IEC 600 68-2-3 and 2-30
IEC 600 68-2-14 and 2-33

## Accessories RAFIX 22 FS emergency stop pushbutton

| Description | Photo | Order no. | Page |
| :---: | :---: | :---: | :---: |
| RAFIX 22 FS emergency stop contact block, 1 NC, gold contacts |  | 1.20.126.401/0000 | 2-189 |
| RAFIX 22 FS emergency stop contact block, 2 NC, gold contacts |  | 1.20.126.404/0000 | 2-189 |

## Accessories RAFIX 22 FS emergency stop pushbutton

| Description | Photo | Order no. | Page |
| :---: | :---: | :---: | :---: |
| RAFIX 22 FS emergency stop contact block, silver contacts, 1 NC | $11$ | 1.20.126.601/0000 | 2-191 |
| Fixing spanner for ring nut and front ring |  | 5.05.800.062/0000 | 5-25 |
| Emergency stop label, yellow, round 60 mm , PVC adhesive, without legend |  | 5.76.204.100/0400 | 2-161 |
| Emergency stop label, yellow, round 60 mm , PVC adhesive, with legend "NOT-AUS" |  | 5.76.204.101/0400 | 2-161 |
| Emergency stop label, yellow, round 60 mm , PVC adhesive, with legend "ARRET D'URGENCE" |  | 5.76.204.102/0400 | 2-161 |
| Emergency stop label, yellow, round 60 mm , PVC adhesive, with legend "EMERGENCY-STOP" |  | 5.76.204.103/0400 | 2-161 |
| Emergency stop label, yellow $36 \times 64 \mathrm{~mm}, \mathrm{PVC}$ adhesive, without legend |  | 5.76.205.011/0400 | 2-161 |

RAFIX 22 FS emergency stop pushbutton, non-illuminated, dupe-proof to EN 418, non-blocking


Technical data see page 2-184

RAFIX 22 FS emergency stop pushbutton, illuminated, dupe-proof to EN 418, non-blocking

| Pict.: red |  |
| :---: | :---: |
| Illuminability | Approvals acc. to IEC |
| yes | 60947-5-x, 60204, 60073, 601058 |

[^0]RAFIX 22 FS signal indicator


## Technical data

| General information |  | Mechanical characteristics <br> Rorm of lens | flat lens |
| :--- | :--- | :--- | :--- |
| Robustness min. |  |  |  |$\quad$ 100 N

## Accessories RAFIX 22 FS signal indicator

| Description | Photo | Order no. | Page |
| :---: | :---: | :---: | :---: |
| 3 mm LED superbright red |  | 1.90.690.269/0000 | 5-21 |
| Fixing spanner for ring nut and front ring | , | 5.05.800.062/0000 | 5-25 |
| LED base for signal indicators |  | 5.30.109.020/0756 | 2-193 |
| Legend insert blank |  | 5.70.806.000/2000 |  |

RAFIX 22 FS signal indicator, round collar

| Pict.: yellow |  | panel cut-out acc. to IEC 60947-5-1 |
| :---: | :---: | :---: |
| Form of collar | Colour of lens | Order no. complete |
| round | transparent colourless | 1.74.506.001/1000 |
| round | transparent red | 1.74.506.001/1300 |
| round | transparent yellow | 1.74.506.001/1400 |
| round | transparent green | 1.74.506.001/1500 |
| round | transparent blue | 1.74.506.001/1600 |

Technical data see page 2-186

## Accessories:

Legend insert blank: 5.70.806.000/2000

## RAFIX 22 FS signal indicator, square collar

| Pict.: red |  | panel cut-out acc. to IEC 60947-5-1 |
| :---: | :---: | :---: |
| Form of collar | Colour of lens | Order no. complete |
| square | transparent colourless | 1.74.506.051/1000 |
| square | transparent red | 1.74.506.051/1300 |
| square | transparent yellow | 1.74.506.051/1400 |
| square | transparent green | 1.74.506.051/1500 |
| square | transparent blue | 1.74.506.051/1600 |

Technical data see page 2-186

## Accessories:

Legend insert blank: 5.70.806.000/2000

RAFIX 22 FS contact blocks with gold contacts


## General data

## Illumination information:

The contact blocks are suitable for use with illuminated actuators: Insert the desired LED into the integrated LED base and subsequently solder it together with the contact block.
We strongly recommend using the Rafi superbright LED since this ensures homogeneous illumination.

## Technical data

|  | General information Lamp <br> Dimensions | LED | Approvals acc. to IEC Approvals, other | $\begin{aligned} & \text { 60947-5-x, 60204, 60073, } \\ & 601058 \\ & \text { UL 508, CSA, cURus } \\ & \text { (UL + CSA) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { RAFIX } \\ & 22 \mathrm{FS} \end{aligned}$ | Diameter | 17.3 mm | Ambient temp. operating min. <br> Ambient temp. operating max. |  |
|  | Recommended key grid | 30 mm |  | $-25^{\circ} \mathrm{C}$ |
|  | Mounting depth | 9.2 mm |  | $+70{ }^{\circ} \mathrm{C}$ |
|  | Mechanical design |  | Storage temperature min. | $-40^{\circ} \mathrm{C}$ |
|  | Mounting | soldering in PCB | Storage temperature max. | +80 |
|  | Contact system | bridgecontact self cleaning | Colour of plunger Robustness | see order block <br> acc. to IEC 60947-5-5 |
|  |  | Au |  | (TÜV) |
|  | Contact arrangement see order block |  | Shock resistance acc. to |  |
|  | NC contact forcibly actuated acc. to IEC 60947-5-1 yes |  | IEC 60068-2-27 | 50 g at 11 ms , amplitude half sinusoidal |
|  | Terminals | solder terminal with locating lug | Resistance to vibrations acc. to IEC 60068-2-6 | 5 g at $10 \ldots 500 \mathrm{~Hz}$ |
|  | Robustness | 100 N | Resistance to constant environment | IEC 600 68-2-3 and 2-30 |
|  | Electrica characteristics acc. to IEC 60947, AC-15 |  | Resistance at variable |  |
|  | Operating voltage AC/DC | 42 V | environment | IEC 600 68-2-14 and 2-33 |
|  | Operating current AC/DC | 100 mA | Salt spray | IEC 600 68-2-11 |
|  | Rated power max. | 250 mW | Solderability / solder heat resistance | IEC 600 68-2-20 |
|  | Other specifications Operating life | 1 million at $10 \mathrm{~mA} / 24 \mathrm{~V}$ DC | Type Colour of housing | wave solder bath / manual soldering |
|  |  |  |  | see order block |
|  | Switching reliability at 24V/5mA DC | $10 \times 10^{-6}$ |  | grey |

Accessories RAFIX 22 FS contact blocks with gold contacts

| Description | Photo | Order no. | Page |
| :---: | :---: | :---: | :---: |
| 3 mm LED superbright yellow |  | 1.90.690.267/0000 | 5-21 |
| 3 mm LED superbright red |  | 1.90.690.269/0000 | 5-21 |
| 3 mm LED superbright blue |  | 1.90.690.282/0000 | 5-21 |
| 3 mm LED superbright green |  | 1.90.690.285/0000 | 5-21 |
| 3 mm LED superbright white |  | 1.90.690.295/0000 | 5-21 |

For additional accessories, refer to the chapter „RAFIX 22 FS special accessories".

RAFIX 22 FS contact block with gold contacts


| Contact arrangement | Type | Colour of housing | Colour of plunger | Order no. complete |
| :---: | :---: | :---: | :---: | :---: |
| 1 NC | Universal | grey | red | 1.20.126.001/0000 |
| 1 NO | Universal | grey | green | 1.20.126.002/0000 |
| $1 \mathrm{NC}+1 \mathrm{NO}$ | Universal | grey | red and green | 1.20.126.003/0000 |
| 2 NC | Universal | grey | red | 1.20.126.004/0000 |
| 2 NO | Universal | grey | green | 1.20.126.005/0000 |
| 1 NC | emergency stop | grey | red | 1.20.126.401/0000 |
| 1 NO | emergency stop | grey | green | 1.20.126.402/0000 |
| $1 \mathrm{NC}+1 \mathrm{NO}$ | emergency stop | grey | yellow | 1.20.126.403/0000 |
| 2 NC | emergency stop | grey | red | 1.20.126.404/0000 |
| 2 NO | emergency stop | grey | green | 1.20.126.405/0000 |

Technical data see page 2-188
Caution: Emergency stop contact blocks can only be used with emergency stop pushbuttons. Universal contact blocks are not suitable for emergency stop pushbuttons.

RAFIX 22 FS contact blocks with silver contacts


Pict.: Silver contacts, 1 NC +1 NO
Silver contacts, universal type, 1 NC

## General data

## Illumination information:

The contact blocks are suitable for use with illuminated actuators: Insert the desired LED into the integrated LED base and subsequently solder it together with the contact block.
We strongly recommend using the Rafi superbright LED since this ensures homogeneous illumination.

## Technical data

|  | General information |  | Operating life at $250 \mathrm{~V} / \mathrm{A}$40000 |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Switching reliability at |  |
|  | Dimensions |  | 24V/5mA DC | $10 \times 10^{-6}$ |
| RAFIX | Diameter | 17.3 mm | Ambient temp. operating |  |
| 22 FS | Recommended key grid | 30 mm | min . | $-25^{\circ} \mathrm{C}$ |
|  | Mounting depth | 9.2 mm | Ambient temp. operating max. | $+70{ }^{\circ} \mathrm{C}$ |
|  | Mechanical design |  | Storage temperature min. | $-40^{\circ} \mathrm{C}$ |
|  | Mounting | soldering in PCB | Storage temperature max. | $+80^{\circ} \mathrm{C}$ |
|  | Contact system | bridgecontact self | Colour of plunger | see order block |
|  |  | cleaning | Approvals acc. to IEC | 60947-5-x, 60204, 60073, |
|  | Contact materials | Ag |  | 601058 |
|  | Contact arrangement see order block |  | Approvals, other | UL 508, CSA, cURus (UL + CSA) |
|  | NC contact forcibly actuated acc. to IEC 60947-5-1 yes |  | Robustness | acc. to IEC 60947-5-5 |
|  | Terminals | solder terminal with locating lug | Shock resistance acc. to | (TÜV) |
|  | Robustness | 100 N | IEC 60068-2-27 | 50 g at 11 ms , amplitude half sinusoidal |
|  | Electrica characteristics acc. to IEC 60947, AC-15 |  | Resistance to vibrations |  |
|  | Rated insulation voltage |  | acc. to IEC 60068-2-6 | 5 g at $10 \ldots 500 \mathrm{~Hz}$ |
|  | AC/DC | 250 V | Resistance to constant |  |
|  |  | 2500 V | environment | IEC 600 68-2-3 and 2-30 |
|  | Rated operating current <br> $\mathrm{I}_{\mathrm{E}}$, AC15 B300 |  | Resistance at variable |  |
|  |  | Ithe: 5 A | environment Salt spray | IEC 600 68-2-14 and 2-33 <br> IEC 600 68-2-11 |
|  | Rated operating current$\mathrm{I}_{\mathrm{E}}, \mathrm{DC} 13 \mathrm{O} 300$ |  | Solderability / solder heat resistance | IEC 600 68-2-20 |
|  |  | 240 V ; Ithe: 2.5 A | Solder techniques | wave solder bath / manual soldering |
|  | Other specifications <br> Operating life at $250 \mathrm{~V} /$ 1A |  | Flame class acc. to UL 94 | V 0 |
|  |  |  | Hot wire ignition acc. |  |
|  |  | 1000000 | to IEC 60695-2-1 | yes |
|  | Operating life at $250 \mathrm{~V} /$ | $100000$ | Type | see order block |
|  |  |  | Colour of housing | black |

## Accessories RAFIX 22 FS contact blocks with silver contacts

| Description | Photo | Order no. | Page |
| :---: | :---: | :---: | :---: |
| 3 mm LED superbright yellow |  | 1.90.690.267/0000 | 5-21 |
| 3 mm LED superbright red |  | 1.90.690.269/0000 | 5-21 |
| 3 mm LED superbright blue |  | 1.90.690.282/0000 | 5-21 |
| 3 mm LED superbright green |  | 1.90.690.285/0000 | 5-21 |
| 3 mm LED superbright white |  | 1.90.690.295/0000 | 5-21 |

For additional accessories, refer to the chapter „RAFIX 22 FS special accessories".

RAFIX 22 FS contact blocks with silver contacts

| Pict.: Universal, silver contacts, universal type, 1 No |  | ersal, silver contacts, $1 \mathrm{NC}+1 \mathrm{NO}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Contact arrangement | Type | Colour of housing | Colour of plunger | Order no. complete |
|  |  |  |  |  |
| 1 NC | Universal | black | red | 1.20.126.201/0000 |
| 1 NO | Universal | black | green | 1.20.126.202/0000 |
| $1 \mathrm{NC}+1 \mathrm{NO}$ | Universal | black | red and green | 1.20.126.203/0000 |
| 2 NC | Universal | black | red | 1.20.126.204/0000 |
| 2 NO | Universal | black | green | 1.20.126.205/0000 |
| 1 NC | emergency stop | black | red | 1.20.126.601/0000 |
| 1 NO | emergency stop | black | green | 1.20.126.602/0000 |
| $1 \mathrm{NC}+1 \mathrm{NO}$ | emergency stop | black | yellow | 1.20.126.603/0000 |
| 2 NC | emergency stop | black | red | 1.20.126.604/0000 |
| 2 NO | emergency stop | black | green | 1.20.126.605/0000 |

Technical data see page 2-190
Caution: Emergency stop contact blocks can only be used with emergency stop pushbuttons. Universal contact blocks are not suitable for emergency stop pushbuttons.

## RAFIX 22 FS special accessories




2

## Accessories RAFIX 22 QR special accessories

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

## Blanking cap



Ring nut

| Pict.: black |  |  |  |
| :---: | :---: | :---: | :---: |
| Short text | Feature 1 | Feature 2 | Order no. |
| Ring nut (spare part) |  |  | 5.24.279.014/0100 |

## LED base for signal indicators


Plastic frontring with protective cap

|  |  |  |
| :--- | :--- | :--- |


[^0]:    Technical data see page 2-184

