

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







RAFIX 22 FS

FAST & SLIM Everything else is outdated.





RAFIX 22 FS⁺ FAST & SLIM EVERYTHING ELSE IS OUTDATED.

Design is the key! New technologies and new materials make new design worlds possible. That not only goes for Colani and his motor truck vision of the future but also for the control unit in your machine.

The RAFIX 22 FS+ control component generation provides your designers a basis for new designs, plus fast and cost-efficient installation options requiring a minimum amount of space, and is now optimized to the latest generation of super bright SMT

Fast

The fastest connection type for every application: with a printed circuit board

 Also when fitted with QC contact blocks. RAFIX 22 FS+ panels are extremely flat.



DESIGN IS THE KEY

Enjoy the look of your operating panel just like your customer will. The front elements feature a classically elegant design and guarantee reliable data input.



Design

The RAFIX 22 FS⁺ series sets new standards in the control component field. Extremely flat construction and functional esthetic design are absolutely essential in an increasingly designoriented industrial environment.

The wide variety and variability of actuators give your designer complete de-

sign freedom: round or square collar types, radiant colors and homogenous illumination of the large actuating areas are basic features. Combined with the various front rings, this makes it possible to create your panel with a distinctive design. For example, a defined color can always be assigned to a specific

command. What's more, the large number of color options for the front ring makes it a snap to customize it to the corporate colors of the various OEMs.



Safe and reliable

The actuators featured in the RAFIX 22 FS⁺ series are water-jet proof and consistently ensure a degree of protection to at least IP 65, which makes them suitable for many diverse applications. For increased environmental requirements, the series also features actuators with a degree of protection to IP 65/ IP 69K.

Durable

The mechanical lifetime of all actuators is optimally suited for the long-lasting operation of even much-used panels.



PCB & QC-TWO SYSTEMS, ONE TARGET: EFFICIENCY





In front of the front panel control components are functionally identical. Behind it you'll find the differences which make life easier for your production engineer and number work simpler for your accountant.

Quick Connect

QC contact blocks for maximum variability

When the investment for the layout and production of a printed circuit board does not pay off, your best choice is our QC contact blocks with quick connect terminals. The contact blocks are plugged into the actuators from behind and lock firmly into place.

Blade terminals enable simple wiring, without any additional devices or special tools. The enclosed space in the RAFIX 22 FS⁺ control components is also used efficiently for the QC contact blocks whose mounting depth including the LED clip and cable lugs is only 27 mm.

Easy to assemble on the printed circuit board

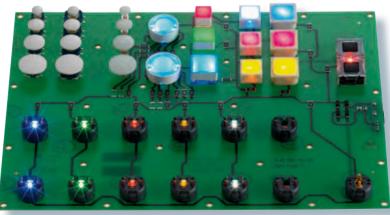
PCB contact blocks for high production volumes

- If you produce your input systems in large volumes, or
- if you use a printed circuit board for the electronics, displays and other components anyway, or
- if you are planning combination with short-travel keyswitches,

RAFIX 22 FS⁺ with PCB contact blocks is the only real choice.

Simply include the PCB contacts and LEDs in the layout of the printed circuit board and solder them during production – just as simply as the other components on a common printed board.

Your benefits: cost savings and reduction of assembly errors. And don't worry about using up space: the contact blocks require only 9.2 mm of space between the printed circuit board and the front panel.



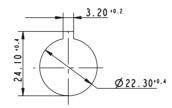
PCB version

COMMON SYSTEM DATA

Front panel

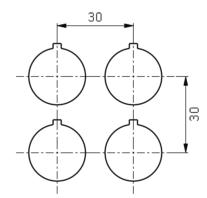
Panel cut-out

The actuators featured in the RAFIX 22 FS⁺ series are suitable for 22.3 mm panel cut-outs according to IEC 60947-5-1. All actuators are equipped with a locating pip. This locating pip ensures the perfect fit of actuators and contact blocks for PCB-mounted components and is therefore essential for a design built with these contact blocks.



Grid spacing

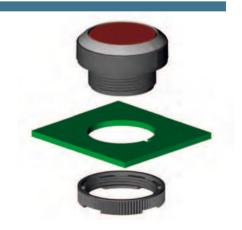
The design principle makes it possible to use a minimum grid spacing of 30 mm x 30 mm. In such an arrangement, actuators with square collars can be aligned directly without any gaps. When designing the grid spacing, it is recommended to consider any external legending required (for example, using labels strips inserted into the front panel).



Assembly of the front actuators

Single-handed assembly method

For assembly, insert the actuator into the mounting hole from the front side. It is clamped in the panel cutout. Subsequently you can screw on the actuator from the rear using the ring nut. You can perform these steps one after the other with one hand! Even better: you can start by inserting all actuators from the front side first and subsequently fasten the threaded rings from the rear in one go. We recommend using the RAFIX fixing spanner to ensure proper tightening.



SYSTEM STRUCTURE WITH PCB CONTACT BLOCKS

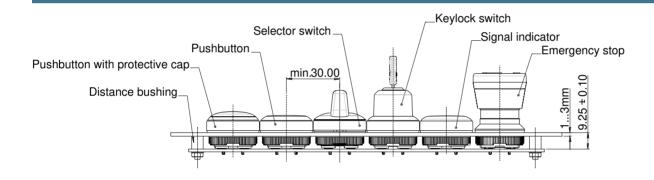
PCB mounting

The PCB contact blocks are soldered on the printed circuit board. Two options for actuator illumination are available:

1.) A 3 mm LED which is inserted into the base of the contact block and soldered together with the contact block on the printed circuit board.

2.) A separately placed SMT LED whose light is transported by the light conductor and distributed over the entire surface of the lenses.

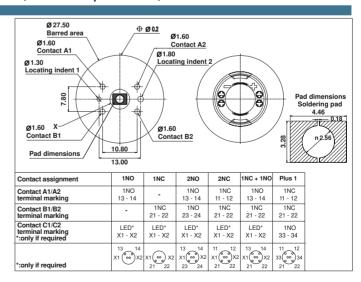
The printed circuit board is fastened to the front panel with bolts, while the contact blocks are almost fully submerged in the actuators, so the entire system is very low. Further benefits: individual wiring is not required, and it is no longer necessary to cut out the printed circuit board around the control components.



PCB hole pattern with THT LED (view of component side)

⊕ Ø 0.2 Ø 1.60, Contact A2 Ø 1.60 Ø 1.00 Contact C1 Ø 1.00 Contact C2 1NC + 1NO Plus 1 Contact assignment 1NO 2NO Contact A1/A2 terminal marking Contact B1/B2 terminal marking Contact C1/C2 terminal marking *:only if required LED* X1 - X2 LED* X1 - X2 only if required:

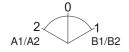
PCB hole pattern with SMT LED (view of component side)

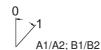


Contact diagram for selector and keylock switches

All actuators with 3 switch positions

All actuators with 2 switch positions





SYSTEM STRUCTURE WITH QC CONTACT BLOCKS

Essential features

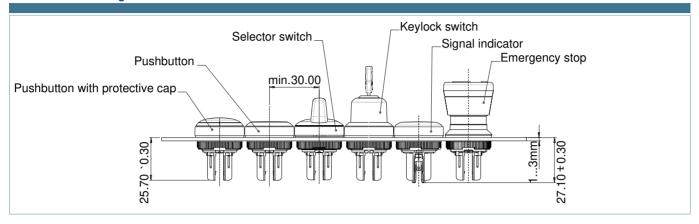
- Mounting depth only 27 mm including LED clip and cable lugs
- Quick-connect/solder terminals 2.8 x 0.8 mm
- The contact block engages permanently with the actuator only at the time of final assembly
- Compatible with all RAFIX 22 FS⁺ actuators: pushbuttons, selector switches, keylock switches, emergency stop buttons and signal indicators, with all benefits this series offers
- -Large actuating and indicating areas
- -Round or square collar shapes
- -Panel cut-out to IEC 60947: 22.3 mm with locating indent

- -Degree of protection IP 65 (water-jet proof)
- Protection against contact for quickconnect terminals and cable lugs: shortcircuit proof even when the connection wires are under tensile strain
- Gold contacts for totally reliable switching of low voltages (5V/1 mA min.)
- Silver contacts (250V/4A max.) for mains voltage
- Contact assignments: 1NC, 1NO, 2NC, 2NO, 1NC + 1NO
- Illumination with replaceable super bright LED clips in various LED colors, with quick-connect terminals 2.8 x 0.8 mm
- Actuators/contact blocks, signal indicators/lamp sockets and LED clips can be stocked separately and are not assembled until final assembly. This ensures maximum flexibility and economical stock-keeping for this range

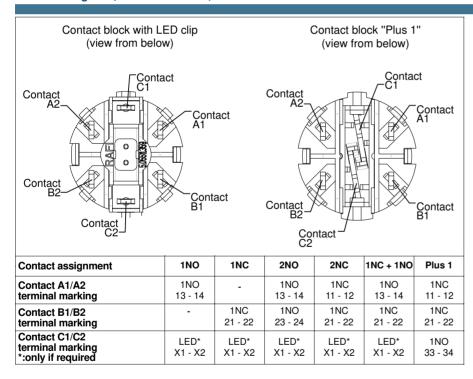
Safe assembly process



Dimensional drawing with QC contact blocks



Terminal diagram (view from below)



Contact diagram for selector and keylock switches

All actuators with 3 switch positions
All actuators with 2 switch positions



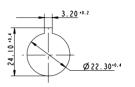
Content

RAFIX 22 FS ⁺ - Pushbuttons RAFIX 22 FS ⁺ - Pushbutton, flush lens, round collar RAFIX 22 FS ⁺ - Pushbutton, protruding lens, round collar RAFIX 22 FS ⁺ - Pushbutton, protruding front ring, round collar RAFIX 22 FS ⁺ - Pushbutton, flush lens, square collar RAFIX 22 FS ⁺ - Pushbutton, protruding lens, square collar RAFIX 22 FS ⁺ - Pushbutton, protruding front ring, square collar	13 15 16 17 18 19 20
RAFIX 22 FS ⁺ - Pushbuttons with protective cap RAFIX 22 FS ⁺ - Pushbutton, with protective cap, flush lens, round collar RAFIX 22 FS ⁺ - Pushbutton, with protective cap, flush lens, square collar	21 23 24
RAFIX 22 FS ⁺ - Selector switches RAFIX 22 FS ⁺ - Selector switch, round collar RAFIX 22 FS ⁺ - Selector switch, square collar	25 27 28
RAFIX 22 FS ⁺ - Keylock switch RAFIX 22 FS ⁺ - Keylock switch, round collar RAFIX 22 FS ⁺ - Keylock switch, square collar	29 31 32
RAFIX 22 FS ⁺ - Mushroom-headed pushbutton RAFIX 22 FS ⁺ - Mushroom-headed pushbutton	33 34
RAFIX 22 FS ⁺ - Emergency stop pushbutton RAFIX 22 FS ⁺ - Emergency stop pushbutton, reset by rotation RAFIX 22 FS ⁺ - Emergency stop pushbutton, reset by pulling (IP65, IP69K)	35 37 37
RAFIX 22 FS ⁺ - Emergency stop pushbutton "Plus 1" RAFIX 22 FS ⁺ - Emergency stop pushbutton "Plus 1", reset by rotation RAFIX 22 FS ⁺ - Emergency stop pushbutton "Plus 1", reset by pulling (IP65,IP69K)	38 39 40
RAFIX 22 FS ⁺ - Potentiometer drive RAFIX 22 FS ⁺ - Potentiometer drive, round collar RAFIX 22 FS ⁺ - Potentiometer drive, square collar	41 42 42
RAFIX 22 FS ⁺ - Signal indicator RAFIX 22 FS ⁺ - Signal indicator, round collar, flat version RAFIX 22 FS ⁺ - Signal indicator, round collar, high version RAFIX 22 FS ⁺ - Signal indicator, square collar, flat version RAFIX 22 FS ⁺ - Signal indicator, square collar, high version	43 44 45 46 47
RAFIX 22 FS ⁺ - USB feedthrough RAFIX 22 FS ⁺ - USB feedthrough, round collar RAFIX 22 FS ⁺ - USB feedthrough, square collar	48 49 50
RAFIX 22 FS ⁺ - Contact block QC gold RAFIX 22 FS ⁺ - Contact block QC gold, Universal, with light conductor RAFIX 22 FS ⁺ - Contact block QC gold, E-Stop, with light conductor RAFIX 22 FS ⁺ - Contact block QC gold, E-Stop, "Plus 1"	51 52 53 53
RAFIX 22 FS ⁺ - Contact block QC silver RAFIX 22 FS ⁺ - Contact block QC silver, Universal, with light conductor RAFIX 22 FS ⁺ - Contact block QC silver, E-Stop, with light conductor	54 55 56
RAFIX 22 FS ⁺ - Contact block PCB gold RAFIX 22 FS ⁺ - Contact block PCB gold, Universal, with light conductor RAFIX 22 FS ⁺ - Contact block PCB gold, Universal RAFIX 22 FS ⁺ - Contact block PCB gold, E-Stop, with light conductor RAFIX 22 FS ⁺ - Contact block PCB gold, E-Stop RAFIX 22 FS ⁺ - Contact block PCB gold, E-Stop, "Plus 1"	57 58 59 59 60 60
RAFIX 22 FS ⁺ - Contact block PCB silver RAFIX 22 FS ⁺ - Contact block PCB silver, Universal, with light conductor RAFIX 22 FS ⁺ - Contact block PCB silver, Universal RAFIX 22 FS ⁺ - Contact block PCB silver, E-Stop, with light conductor RAFIX 22 FS ⁺ - Contact block PCB silver, E-Stop	61 63 63 64 64
Accessories	65

RAFIX 22 FS⁺ - Pushbuttons







Panel cut-out to IEC 60947-5-1

Technical Data

Genera	l inf	orm	ation
Genera		UIIII	atioi

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

Dimensions

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

Mechanical design

Mounting	ring nut
Contact function	see order block
Illuminability	see order block
Torque for nut ring	1.2 Nm

Mechanical characteristics

Operating travel	4 mm
Robustness min.	100 N

Other specifications

Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Operating life	1,000,000 momentary / 500,000 latching
B10	1,300,000 momentary / 650,000 latching
Degree of protection from front side	IP65
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
Salt spray	IEC 600 68-2-11

Approvals







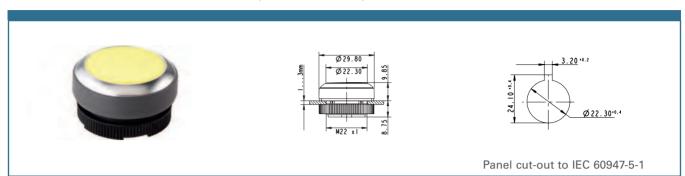
IEC 60947-5-x, 60904, 60073

UL 508,C22.2 No. CCC in preparation 14-M91

Accessories RAFIX 22 FS⁺ - Pushbuttons

Description	Photo	Order no.	Additional accessories see page
RAFIX 22 FS ⁺ - Contact block PCB gold, Universal		-	59
RAFIX 22 FS ⁺ - Contact block PCB gold, Universal, with light conductor		-	58
RAFIX 22 FS ⁺ - Contact block PCB silver, Universal		-	63
RAFIX 22 FS ⁺ - Contact block PCB silver, Universal, with light conductor		-	63
RAFIX 22 FS ⁺ - Contact block QC gold, Universal, with light conductor		-	52
RAFIX 22 FS ⁺ - Contact block QC silver, Universal, with light conductor		-	55
Fixing spanner for ring nut and front ring		5.05.800.062/0000	65

RAFIX 22 FS⁺ - Pushbutton, flush lens, round collar

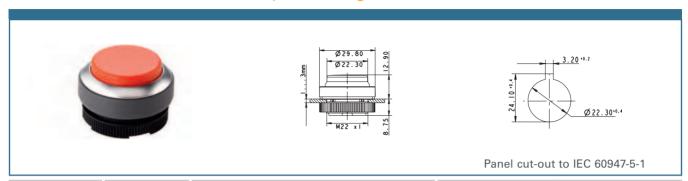


Illuminability	Colour of lens	Order no. momentary		Order no	. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	translucent white	1.30.270.001/22xx	1.30.270.021/2200	1.30.270.011/22xx	1.30.270.031/2200
yes	translucent red	1.30.270.001/23xx	1.30.270.021/2300	1.30.270.011/23xx	1.30.270.031/2300
yes	translucent yellow	1.30.270.001/24xx	1.30.270.021/2400	1.30.270.011/24xx	1.30.270.031/2400
yes	translucent green	1.30.270.001/25xx	1.30.270.021/2500	1.30.270.011/25xx	1.30.270.031/2500
yes	translucent blue	1.30.270.001/26xx	1.30.270.021/2600	1.30.270.011/26xx	1.30.270.031/2600
no	opaque black	1.30.270.001/01xx	1.30.270.021/0100	1.30.270.011/01xx	1.30.270.031/0100
no	opaque slate-grey	1.30.270.001/07xx	1.30.270.021/0700	1.30.270.011/07xx	1.30.270.031/0700

Technical data see page 13

xx = Front ring colour: black = 01, red = 03, yellow = 04, green = 05, blue = 06, slate grey = 07, silver grey = 08

RAFIX 22 FS⁺ - Pushbutton, protruding lens, round collar

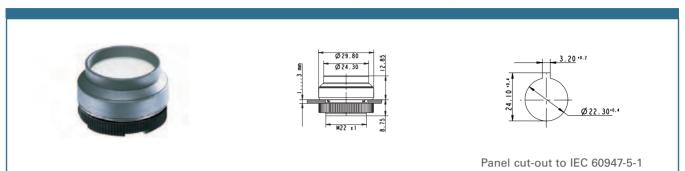


Illuminability	Colour of lens	Order no. momentary		Order no	. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	translucent white	1.30.270.201/22xx	1.30.270.221/2200	1.30.270.211/22xx	1.30.270.231/2200
yes	translucent red	1.30.270.201/23xx	1.30.270.221/2300	1.30.270.211/23xx	1.30.270.231/2300
yes	translucent yellow	1.30.270.201/24xx	1.30.270.221/2400	1.30.270.211/24xx	1.30.270.231/2400
yes	translucent green	1.30.270.201/25xx	1.30.270.221/2500	1.30.270.211/25xx	1.30.270.231/2500
yes	translucent blue	1.30.270.201/26xx	1.30.270.221/2600	1.30.270.211/26xx	1.30.270.231/2600
no	opaque black	1.30.270.201/01xx	1.30.270.221/0100	1.30.270.211/01xx	1.30.270.231/0100
no	opaque slate-grey	1.30.270.201/07xx	1.30.270.221/0700	1.30.270.211/07xx	1.30.270.231/0700

Technical data see page 13

xx = Front ring colour: black = 01, red = 03, yellow = 04, green = 05, blue = 06, slate grey = 07, silver grey = 08

RAFIX 22 FS⁺ - Pushbutton, protruding front ring, round collar

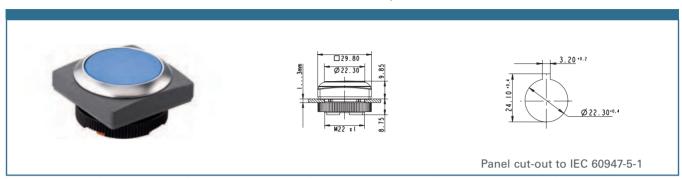


Illuminability	Colour of lens	Order no. momentary		Order no	. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	translucent white	1.30.270.401/22xx	1.30.270.421/2200	-	-
yes	translucent red	1.30.270.401/23xx	1.30.270.421/2300	-	-
yes	translucent yellow	1.30.270.401/24xx	1.30.270.421/2400	-	-
yes	translucent green	1.30.270.401/25xx	1.30.270.421/2500	-	-
yes	translucent blue	1.30.270.401/26xx	1.30.270.421/2600	-	-
no	opaque black	1.30.270.401/01xx	1.30.270.421/0100	-	-
no	opaque slate-grey	1.30.270.401/07xx	1.30.270.421/0700	-	-

Technical data see page 13

xx = 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

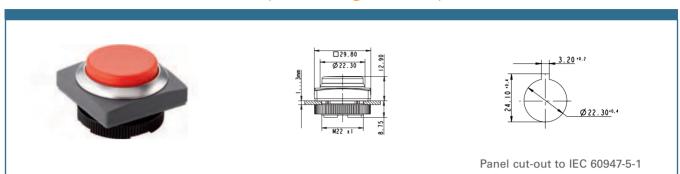


Illuminability	Colour of lens	Order no. momentary		Order no	. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	translucent white	1.30.270.051/22xx	1.30.270.071/2200	1.30.270.061/22xx	1.30.270.081/2200
yes	translucent red	1.30.270.051/23xx	1.30.270.071/2300	1.30.270.061/23xx	1.30.270.081/2300
yes	translucent yellow	1.30.270.051/24xx	1.30.270.071/2400	1.30.270.061/24xx	1.30.270.081/2400
yes	translucent green	1.30.270.051/25xx	1.30.270.071/2500	1.30.270.061/25xx	1.30.270.081/2500
yes	translucent blue	1.30.270.051/26xx	1.30.270.071/2600	1.30.270.061/26xx	1.30.270.081/2600
no	opaque black	1.30.270.051/01xx	1.30.270.071/0100	1.30.270.061/01xx	1.30.270.081/0100
no	opaque slate-grey	1.30.270.051/07xx	1.30.270.071/0700	1.30.270.061/07xx	1.30.270.081/0700

Technical data see page 13

xx = Front ring colour: black = 01, red = 03, yellow = 04, green = 05, blue = 06, slate grey = 07, silver grey = 08

RAFIX 22 FS⁺ - Pushbutton, protruding lens, square collar

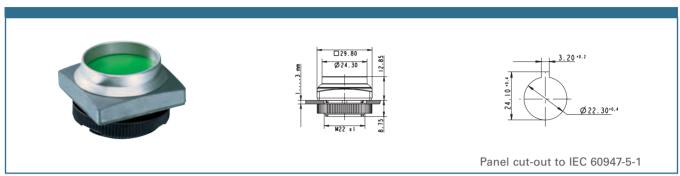


Illuminability	Colour of lens	Order no. momentary		Order no	. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	translucent white	1.30.270.251/22xx	1.30.270.271/2200	1.30.270.261/22xx	1.30.270.281/2200
yes	translucent red	1.30.270.251/23xx	1.30.270.271/2300	1.30.270.261/23xx	1.30.270.281/2300
yes	translucent yellow	1.30.270.251/24xx	1.30.270.271/2400	1.30.270.261/24xx	1.30.270.281/2400
yes	translucent green	1.30.270.251/25xx	1.30.270.271/2500	1.30.270.261/25xx	1.30.270.281/2500
yes	translucent blue	1.30.270.251/26xx	1.30.270.271/2600	1.30.270.261/26xx	1.30.270.281/2600
no	opaque black	1.30.270.251/01xx	1.30.270.271/0100	1.30.270.261/01xx	1.30.270.281/0100
no	opaque slate-grey	1.30.270.251/07xx	1.30.270.271/0700	1.30.270.261/07xx	1.30.270.281/0700

Technical data see page 13

xx = Front ring colour: black = 01, red = 03, yellow = 04, green = 05, blue = 06, slate grey = 07, silver grey = 08

RAFIX 22 FS⁺ - Pushbutton, protruding front ring, square collar



Illuminability	Colour of lens	Order no. momentary		Order no	. latching
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	translucent white	1.30.270.451/22xx	1.30.270.471/2200	-	-
yes	translucent red	1.30.270.451/23xx	1.30.270.471/2300	-	-
yes	translucent yellow	1.30.270.451/24xx	1.30.270.471/2400	-	-
yes	translucent green	1.30.270.451/25xx	1.30.270.471/2500	-	-
yes	translucent blue	1.30.270.451/26xx	1.30.270.471/2600	-	-
no	opaque black	1.30.270.451/01xx	1.30.270.471/0100	-	-
no	opaque slate-grey	1.30.270.451/07xx	1.30.270.471/0700	-	-

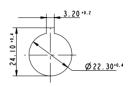
Technical data see page 13

xx = Front ring colour: black = 01, red = 03, yellow = 04, green = 05, blue = 06, slate grey = 07, silver grey = 08

RAFIX 22 FS⁺ - Pushbuttons with protective cap







Panel cut-out to IEC 60947-5-1

Technical Data

General	information

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

Dimensions

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

Mechanical design

Mounting	ring nut
Contact function	see order block
Illuminability	see order block
Torque for nut ring	1.2 Nm

Mechanical characteristics

Operating travel	4 mm
Robustness min.	100 N

Other specifications

Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Operating life	1,000,000 momentary / 500,000 latching
B10	1,300,000 momentary / 650,000 latching
Degree of protection from front side	IP65, IP69K
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
Salt spray	IEC 600 68-2-11

Approvals







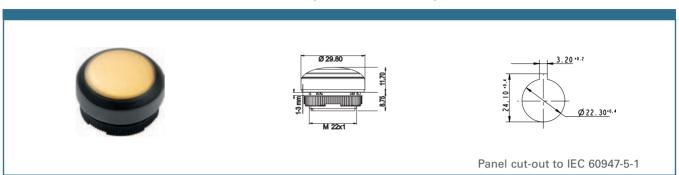
IEC 60947-5-x, 60904, 60073

UL 508,C22.2 No. CCC in preparation 14-M91

Accessories RAFIX 22 FS⁺ - Pushbuttons with protective cap

Description	Photo	Order no.	Additional accessories see page
RAFIX 22 FS ⁺ - Contact block PCB gold, Universal		-	59
RAFIX 22 FS ⁺ - Contact block PCB gold, Universal, with light conductor		-	58
RAFIX 22 FS ⁺ - Contact block PCB silver, Universal		-	63
RAFIX 22 FS ⁺ - Contact block PCB silver, Universal, with light conductor		-	63
RAFIX 22 FS ⁺ - Contact block QC gold, Universal, with light conductor		-	52
RAFIX 22 FS ⁺ - Contact block QC silver, Universal, with light conductor		-	55
Fixing spanner for ring nut and front ring		5.05.800.062/0000	65

RAFIX 22 FS⁺ - Pushbutton, with protective cap, flush lens, round collar



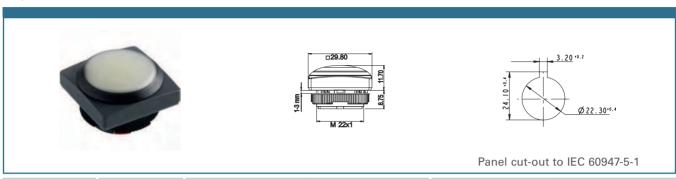
Illuminability	Colour of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	translucent white	1.30.270.005/22xx	-	-	-
yes	translucent red	1.30.270.005/23xx	-	-	-
yes	translucent yellow	1.30.270.005/24xx	-	-	-
yes	translucent green	1.30.270.005/25xx	-	-	-
yes	translucent blue	1.30.270.005/26xx	-	-	-
no	opaque black	1.30.270.005/01xx	-	-	-
no	opaque slate-grey	1.30.270.005/07xx	-	-	-

Technical data see page 21

Pushbutton with protective cap for use under rugged conditions.

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

RAFIX 22 FS⁺ - Pushbutton, with protective cap, flush lens, square collar



Illuminability	Colour of lens	Order no. momentary		Order no. latching	
		Plastic front ring	Metallized front ring	Plastic front ring	Metallized front ring
yes	translucent white	1.30.270.055/22xx	-	-	-
yes	translucent red	1.30.270.055/23xx	-	-	-
yes	translucent yellow	1.30.270.055/24xx	-	-	-
yes	translucent green	1.30.270.055/25xx	-	-	-
yes	translucent blue	1.30.270.055/26xx	-	-	-
no	opaque black	1.30.270.055/01xx	-	-	-
no	opaque slate-grey	1.30.270.055/07xx	-	-	-

Technical data see page 21

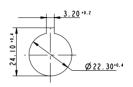
Pushbutton with protective cap for use under rugged conditions.

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

RAFIX 22 FS⁺ - Selector switches







Panel cut-out to IEC 60947-5-1

1.5 Nm

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

Dimensions

Dimensions of collar	see order block
Overall height	22.24 mm
Mounting depth	see order block
Mounting hole	22.3 mm
Key grid	30 x 30 mm

Mechanical design

Mounting	ring nut
Contact function	see order block
Illuminability	see order block
Rotating angle	see order block
Torque for nut ring	1.2 Nm

Mechanical characteristics

Torque max.

Other specifications	
Operating life (operations)	500,000 momentary / 300,000 latching
Operating life (operations)	650,000 momentary / 400,000 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
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
Salt spray	IEC 600 68-2-11

Approvals







IEC 60947-5-x, 60904, 60073

14-M91

UL 508,C22.2 No. CCC in preparation