

Contact blocks with quick-connect terminals



System

2

RÅFI offers contact blocks with quick-connect terminals for the tried and tested RAFIX 22 FS actuators. The contact block snaps into the actuator with a gentle >>>click<<< and is thereby fitted permanently.

Concept

For those applications where designing a PCB layout is too expensive or not possible at all, a new option has been made available by complementing the series. Catch noses provided on the new contact block snap precisely into the actuator. The screw neck of the actuator is provided with indents safeguarding a reliable union.

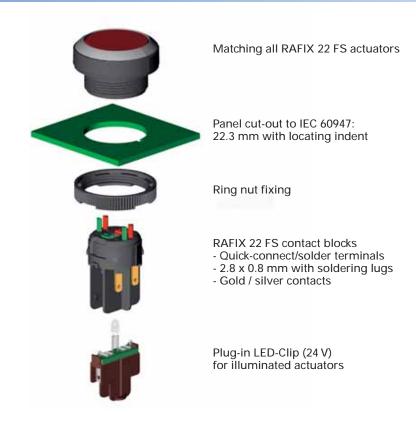
The contacts of the contact block are easily connected by conventional quick-connect terminals on the rear end. A fin arranged at the centre of the contact block with quick-connect terminals helps to ensure good insulation. It serves as a guide for the additional LED-Clip at the same time if illumination is desired.

The new contact blocks with quick-connect terminals makes the RAFIX 22 FS series complete and perfect. Any external control components can be integrated into the system *very easily* and *without needing any tools* and you save space, effort and material.

22 FS

RAFIX

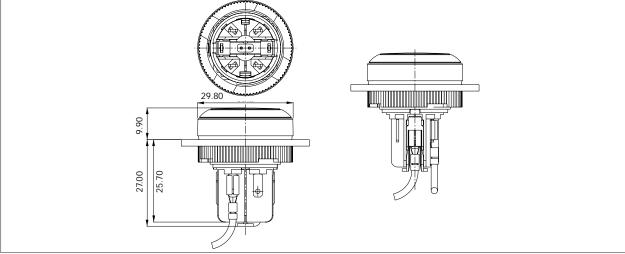






Reliable assembly method





Essential features

- Depth behind panel 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 advantages this series offers:
 - Large actuating and indicating areas
 - Round or square collar shape

Downloaded from Elcodis.com electronic components distributor

- Panel cut-out to IEC 60947: 22.3 mm with locating indent
- Degree of protection IP 65 (water-jet proof)
- Protection against contact for quick-connect terminals and cable lugs: Short-circuit proof even when the connection cables are under tensile strain

- Gold contacts for 100% reliable switching of low voltage (min. 5 V / 1 mA) or
- Silver contacts (max. 250 V/4 A) for mains voltage
- Contact arrangements: 1 NC, 1 NO, 2 NC, 2 NO, 1 NC + 1 NO
- Illumination with replaceable superbright LED-Clips in various LED colours, with quick-connect terminals 2.8 x 0.8 mm
- Actuators / contact blocks, signal indicators / lamp sockets and LED-Clips are stocked separately and only assembled at final assembly. This ensures utmost flexibility and most economic stockkeeping for this product range.

RAFIX 22 FS



RAFIX 22 FS, Contact blocks with quick-connect terminals, gold contacts



2 Ger

RAFIX 22 FS General data

The contact blocks are inserted into the actuators and latch there permanently. Emergency stop pushbuttons require special contact blocks which you can recognise by the plungers being in the interior. In addition, the emergency stop contact blocks and actuators feature two assembly guides which prevent rotation during assembly. We recommend to choose the LED colour in the same colour as the lens of the actuator in order to ensure satisfactory illumination.

Technical data

	General information Lamp	LED-Clip	Other specifications Operating life Switching reliability at	1 million at 10 mA/24 V DC
(Dimensions Diameter Recommended key grid Mounting depth	17.3 mm 30 mm 27 mm	24V/5mA DC Approvals acc. to IEC Approvals, other Ambient temp. operating min.	10 x 10 ⁻⁶ 60947-5-1/-5, 60204, 60073 cURus (UL + CSA) -25 °C
	Mechanical design Mounting Contact system	soldering in PCB bridgecontact self cleaning	Ambient temp: operating max Storage temperature min. Storage temperature max. Colour of plunger Robustness	
	Contact materials Contact arrangement NC contact forcibly actuated acc. to	Au see order block	Shock resistance acc. to IEC 600 68-2-27	(TÜV) 15 g bei 11 ms amplitude half sinusoidal
	IEC 947-5-1 Terminals Robustness	yes quick-connect/solder terminals 2.8 x 0.8 mm 100 N	Resistance to vibrations acc. to IEC 600 68-2-6 Resistance to constant environment	5 g at 10 500 Hz IEC 600 68-2-3 und 2-30
	Electrice characteristics acc. t Operating voltage min. Operating current min. Rated power max.	o IEC 60947, AC-15, DC-13 5 V 1 mA 250 mW	Restistance at variable environment Salt spray Colour of housing	IEC 600 68-2-14 und 2-33 IEC 600 68-2-11 grey
	·		8	



Typical accessories RAFIX 22 FS contact blocks

Discription	Photo	Order no.	Additional acces- sories see page
LED-Clip, LED red		5.05.511.359/0300	38
LED-Clip, LED blue	*	5.05.511.359/0600	38
LED-Clip, LED green	4	5.05.511.359/0500	38
LED-Clip, LED white	4	5.05.511.359/0200	38
LED-Clip, LED yellow	4	5.05.511.359/0400	38

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

RAFIX 22 FS contact blocks with quick-connect terminals







2

Pict.: Universal, Au-contact, 2 NC	Pict.: Universal, Au-contact, 2	NO Pict.: Universal, Au-cor	act, 1 NC + 1 NO Pict.: Emergency stop, Au-contact, 2 NC		
Contact arrangement	Туре	Colour of housing	Colour of plunger	Order no.	
1 NC	Universal	grey	red	1.20.126.101/0000	
1 NO	Universal	grey	green	1.20.126.102/0000	
1 NC + 1 NO	Universal	grey	red and green	1.20.126.103/0000	
2 NC	Universal	grey	red	1.20.126.104/0000	
2 NO	Universal	grey	green	1.20.126.105/0000	
1 NC	Emergency stop	grey	red	1.20.126.501/0000	
1 NC + 1 NO	Emergency stop	grey	yellow	1.20.126.503/0000	
2 NC	Emergency stop	grey	red	1.20.126.504/0000	

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.: Emergency stop, Ag-contact, 1 NC + 1 NO



2

RAFIX 22 FS

General data

The contact blocks are inserted into the actuators and latch there permanently. Emergency stop pushbuttons require special contact blocks which you can recognise by the plungers being in the interior. In addition, the emergency stop contact blocks and actuators feature two assembly guides which prevent rotation during assembly. We recommend to choose the LED colour in the same colour as the lens of the actuator in order to ensure satisfactory illumination.

Technical data

	General information	LED-Clip	Switching reliability at 24V/5mA DC	10 x 10⁻ ⁶
	Lamp	LED-Clip	Ambient temp. operating	10 X 10 ²
<i>(</i>	Dimensions		min.	-25 °C
	Diameter	17.3 mm	Ambient temp. operating	-25 C
•	Recommended key grid	30 mm	max.	+70 °C
	Mounting depth	27 mm	Storage temperature min.	-40 °C
	Mounting depth	27 11111	Storage temperature max.	+80 °C
	Mechanical design		Colour of plunger	see order block
	Mounting	soldering in PCB	Approvals acc. to IEC	60947-5-1/-5, 60204, 60073
	Woulding	Betätigungselement	Approvals, other	00747-3-17-3, 00204, 00073
	Contact system	bridgecontact self	pending:	cURus (UL + CSA)
	Contact System	cleaning	Marine approvals	on request
	Contact materials	Ag	Robustness	acc. to IEC 60947-5-5
	Contact arrangement	see order block		(TÜV)
	NC contact forcibly		Shock resistance acc. to	()
	actuated acc. to		IEC 600 68-2-27	15 g at 11 ms, amplitude
	IEC 60947-5-1	yes		half sinusoidal
	Terminals	guick-connect/solder	Resistance to vibrations	
		terminals 2.8 x 0.8 mm	acc. to IEC 600 68-2-6	5 g bei 0 500 Hz
	Robustness	100 N	Konstantklimafestigkeit	IEC 600 68-2-3 und 2-30
			Wechselklimafestigkeit	IEC 600 68-2-14 und 2-33
	Electrice characteristics acc.	to IEC 60947, AC-15, DC-13	Salznebel	IEC 600 68-2-11
	Rated insulation voltage	25014		14.0
	AC/DC	250 V	Flame class acc. to UL 94	V 0
	Rated peak voltage	2,500 V	Hot wire ignition acc. to IEC 695-2-1	Noc
	Rated operating current I _F , AC15 B300	3 A/120 V; 1,5 A/240 V;	Colour of housing	yes black
	IE , AC 15 B300	Ithe: 5 A	colour of flousing	DIACK
	Rated operating current	IIIIe. 5 A		
	I _F , DC13 Q300	550 mA/120 V; 270 mA/240		
	IE , DOI'S 0300	V; Ithe: 2,5 A		
		v, mio. 2,070		
	Other specifications			
	Operating life at 250V / 1A	1,000,000		
	Operating life at 250V / 2A	100,000		
	Operating life at 250V / 4A	30,000		



Typical accessories RAFIX 22 FS contact blocks

Bezeichnung	Photo	Order no.	Additional acces- sories see page
LED-Clip, LED red	4	5.05.511.359/0300	38
LED-Clip, LED blue		5.05.511.359/0600	38
LED-Clip, LED green	4	5.05.511.359/0500	38
LED-Clip, LED white	+	5.05.511.359/0200	38
LED-Clip, LED yellow	4	5.05.511.359/0400	38

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

RAFIX 22 FS contact blocks with quick-connect terminals, silver contacts











2

Pict.: Universal, Ag-contact, 2 NC	Pict.: Universal, Ag-contact, 2	NO Pict.: Universal, Ag-cor	ntact, 1 NC + 1 NO Pict.: Emergence	1.20.126.301/0000
Contact arrangement	Туре	Colour of housing	Colour of plunger	Order no.
1 NC	Universal	black	red	1.20.126.301/0000
1 NO	Universal	black	green	1.20.126.302/0000
1 NC + 1 NO	Universal	black	red and green	1.20.126.303/0000
2 NC	Universal	black	red	1.20.126.304/0000
2 NO	Universal	black	green	1.20.126.305/0000
1 NC	Emercency stop	black	red	1.20.126.701/0000
1 NC + 1 NO	Emercency stop	black	yellow	1.20.126.703/0000
2 NC	Emercency stop	black	red	1.20.126.704/0000

Caution: Emergency stop contact blocks can only be used with emergency stop pushbuttons. Universal contact blocks are not suitable for emergency stop pushbuttons.