



Product Service

CERTIFICATE

B 019303 0019 Rev. 00

Holder of Certificate: **RAFI GmbH & Co.KG**
Ravensburger Str. 128-134
88276 Berg / Ravensburg
GERMANY

Certification Mark:



Product: **Switches**
(Emergency Stop Switches)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 028-713179426-000

Valid until: 2025-02-23

Date, 2020-06-02

(Susanne Dormann)



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B 019303 0019 Rev. 00

Model(s):
RAFIX 22 FS
RAFIX 22 FS+
RAFIX 22 FSR
RAFIX 30 FS+

Parameters:

Silver version:

Impulse withstand Voltage: 2500V
rated operational voltage: 250Vac/dc

For AC

rated operational current (Ie): AC-15/B300:
120 V, 3.0 A,
240 V, 1.5 A

conventional free air thermal
current (Ith):

5 A

For DC:

rated operational current (Ie): DC-13/Q300:
120 V, 0.55 A,
240 V, 0.27 A

conventional free air
thermal current (Ith):

2.5A

Gold version:

Impulse withstand Voltage: 500 V
Rated insulation voltage: 50 Vac/dc
utilization categories: AC-15 / DC-13
rated operational current: 100 mA
rated operational voltage: 35 V
Max. Switching power: 250 mW

For all devices:

Ambient Temperature: -20°C to +70°C
direct opening travel: >3 mm
electrical lifetime: 6050
mechanical lifetime: 30.000

The devices coloured red and yellow are additionally certified in according with IEC 60947-5-5; DIN EN ISO 13850 to fulfil the requirements as emergency stop switch.

CERTIFICATE

B 019303 0019 Rev. 00

Contact Blocks

1.20.126	.	y	yy	/	X000
9.20.126					
I		II	III		IV

I 1.20.126 - Contact Block Basic designation
 9.20.126 - Contact Block customer specific packaging or assembled with cables

II 0 – THT (through hole technology) version with Gold Contacts
 1 – Quick Connect Terminal version with Gold Contacts
 2 – THT (through hole technology) version with Silver Contacts
 3 - Quick Connect Terminal version with Silver Contacts

III 01 – 1 NC Contact
 02 – 1 NO Contact
 03 – 1 NC and 1 NO Contacts
 04 – 2 NC Contacts
 05 – 2 NO Contacts

IV 0000 without-, 9000 with light guide

Illumination - optional 3mm standard LED.

Push Buttons

1.30.250	.	y	y	y	/	xx	xx
9.30.250							
I		II	III	IV		V	VI

I 1.30.250, 1.30.270 or 1.30.290 - Push button Basic designation
 9.30.250, 9.30.270 or 9.30.290 – Push button customer specific packaging or assembled push button with contact block

II 0, 2, 4 – Illuminable
 1, 3, 5 – Non-Illuminable
 9 - Illuminable with flexlab (for individual lens labeling)

III 1, 3, 6 or 8 – Latching
 0, 2, 5 or 7 - Momentary

IV Always 1 – No meaning is attached to this digit.

V Any 2 digits from 00 to 99 to designate front lens colour

VI Any 2 digits from 00 to 99 to designate front ring colour

CERTIFICATE

B 019303 0019 Rev. 00

Push Button 1.30.280 (with protective cap)

1.30.280.001	XX	01
9.30.280.001		
I	II	III

- I 1.30.280.001 - pushbutton basic designation
9.30.280.001 - Push button customer specific packaging or assembled push button with contact block
- II Any 2 digits from 00 to 99 to designate lens colour
- III always 01 (no meaning is attached to this digits)

USB Feed-Through

1.30.2x9.	Oyy	/0700
9.30.2x9.		
I	II	III

- I 1.30.259, 1.30.279 or 1.30.299 USB Feed Through Basic Designation
9.30.259, 9.30.279 or 9.30.299 USB Feed Through customer specific packaging or customer specific cables
- II 01 or 21 round collar
51 or 71 spare collar (1.30.259 and 1,20.279 only)
- III /0700 front ring metallized
/0707 front ring plastic "slate-grey" (1.30.259 and 1,20.279 only)

9.30.279.00x/0700 Customer specific Variants, round collar, front ring plastic "slate-grey" with cables:

where x stands for cable length e.g.
 2 = cable 700mm, ground cable 150mm
 3 = cable 350mm, ground cable 150mm
 4 = cable 550mm, ground cable 150mm
 Or any other length having live conductors wires greater than 152mm

Ground cable is optional

CERTIFICATE

B 019303 0019 Rev. 00

Selector Switch

1.30.252	.	yy	y	/	xx	xx
9.30.252						
I		II	III		IV	V

I 1.30.252, 1.30.272, 1.30.282 or 1.30.292 - Selector switch basic designation
9.30.252, 9.30.272, 9.30.282 or 9.30.292 - Selector switch customer specific packaging or assembled push button with contact block

II yy – any two digits between 00 and 99 designating rotation angle, number of positions, momentary or latching functions.

III 1 or 6 – Front Ring Plastic
2 or 7 – Front ring Metallized

IV 22 = illuminable
23 = not illuminable

V Any 2 digits from 00 to 99 to designate front ring colour

Keylock Actuator

1.30.255	.	yy	y	/	xxxx
9.30.255					
I		II	III		IV

I 1.30.255, 1.30.275, 1.30.285 or 1.30.295 - Keylock actuator basic designation
9.30.255, 9.30.275, 9.30.285 or 9.30.295 - Keylock actuator customer specific packaging or assembled push button with contact block or additionally with PWB

II yy – any two digits between 00 and 99 designating rotation angle, number of positions, momentary or latching functions.

III 1 – Front Ring Plastic
2 – Front ring Metallized

IV Any 4 digits from 0000 to 9999 to designate front ring colour

CERTIFICATE

B 019303 0019 Rev. 00

Mushroom headed actuator

1.30.276	.	y	yy	/	xx	00
9.30.276						
I		II	III		IV	V

I 1.30.276 - Mushroom headed actuator basic designation
9.30.276 - Mushroom headed actuator customer specific packaging or assembled push button with contact block

II Any digit between 0 and 9 designating type of resetting and momentary or latching functions

III No meaning attached to this digits

IV 22 means illuminable

00 means not illuminable

V No meaning is attached to this digits

Signal Indicator

1.74.506	.	y	y	y	/	xxxx
I		II	III	IV		V

I 1.74.506, 1.74.508, 1.74.509, 1.74.510, 5.05.512 -- Signal indicator Basic designation
9.74.506, 9.74.508, 9.74.509, 9.74.510 - Signal indicator customer specific packaging or assembled push button with contact block

II Y – Any number between 0 and 9 – No meaning is attached to this digit.

III Any number between 0 and 9 means Collar form

IV Y – Any number between 0 and 9 – No meaning is attached to this digit.

V Any 4 digits from 0000 to 9999 to designate Lens colour

Blind Plugs

5.05	.	yyy	yy	y	/	0000
I		II	III	IV		V

I 5.05 – Blind Plugs Basic Designation

II 200 – Flat version
800 – High version

III 06 – Flush
02 – High

IV 5 or 7 – Round
6 or 8 - Square

V always 0000, no meaning attached to the sequence of zeros

CERTIFICATE

B 019303 0019 Rev. 00

Lighting Elements (LED Clip)

5.05.511.747	/	x	x	xx
I		II	III	IV
I	5.05.511.747		Basic Number	
	5.05.512.040/0000		Two colour version	
II	Operating Voltage			
	0 12 V/DC			
	1 24 V/DC			
III	LED Colour			
	2 White			
	3 Red			
	4 Yellow			
	5 Green			
	6 Blue			
IV	00 no meaning			

Emergency Stop Push Buttons RAFIX 22FS+

1.30.2x3.	yy	y	/	xx	xx
I	II	III		IV	V
I	1.30.253, 1.30.273, 1.30.283 – Emergency Stop Push button Basic designation 9.30.253, 9.30.273, 9.30.283 – Emergency Stop Push button customer specific packaging or assembled push button with contact block				
II	Any digits between 00 and 99 means illumination and resetting function				
III	1 means without "Plus1" contact 2 means with "Plus1" contact				
IV	Any digits between 00 and 99 means colour of mushroom head (red or transparent according to DIN EN 13850)				
V	Always 00				

CERTIFICATE

B 019303 0019 Rev. 00

Contact Blocks for Emergency Stop Push Buttons

1.20.126 - Contact Block Basic designation

9.20.126 - Contact Block customer specific packaging assembled with cables

Contact Blocks with soldering pins

with Gold Contact: (housing: top and bottom slate-grey)

1 NC	1.20 126.401/x00
	9.20 126.401/x000
1 NC and 1 NO	1.20 126.403/x000
	9.20 126.403/x000
2 NC	1.20 126.404/x000
	9.20 126.404/x000
2 NC + Signal "+1 gold contact"	1.20.126.414/x000
	9.20.126.414/x000

with Silver Contact: (housing: top and bottom black)

1 NC	1.20 126.601/x000
	9.20 126.601/x000
1 NC and 1 NO	1.20 126.603/x000
	9.20 126.603/x000
2 NC	1.20 126.604/x000
	9.20 126.604/x000

Illumination - optional 3mm standard or SMT LED.

Contact Blocks with quick connect terminals 2,8 x 0,8mm

with Gold Contact: (housing: top and bottom slate-grey)

1 NC	1.20 126.501/x000
	9.20 126.501/x000
1 NC and 1 NO	1.20 126.503/x000
	9.20 126.503/x000
2 NC	1.20 126.504/x000
	9.20 126.504/x000
2 NC + Signal "+1 gold contact"	1.20.126.514/0000
	9.20.126.514/0000

with Silver Contact: (housing: bottom and top black)

1 NC	1.20 126.701/x000
	9.20 126.701/x000
1 NC and 1 NO	1.20 126.703/x000
	9.20 126.703/x000
2 NC	1.20 126.704/x000
	9.20 126.704/x000

Illumination - optional 3mm standard or SMT LED.

Note:

/0000	without light guide
/9000	with light guide



CERTIFICATE

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Tested according to: EN 60947-5-1:2017
EN 60947-5-5:1997/A2:2017
EN 62471:2008
EN ISO 13850:2015

Production Facility(ies): 075943