



# More Safety RAFIX 22 FS "Plus 1"

**RAFI**  
SOLUTIONS WITH PASSION

**RAFIX 22 FS "Plus1" emergency stop pushbutton**



**General information**

**RAFIX 22 FS "Plus1" emergency stop pushbutton with 2 NC and 1 NO contacts**

This special emergency stop pushbutton offers two redundant normally-closed contacts for the emergency off / emergency stop function and an additional signal contact. Unique design: 3 contacts accommodated in very compact dimensions (mounting depth 9.2 or 27 mm).

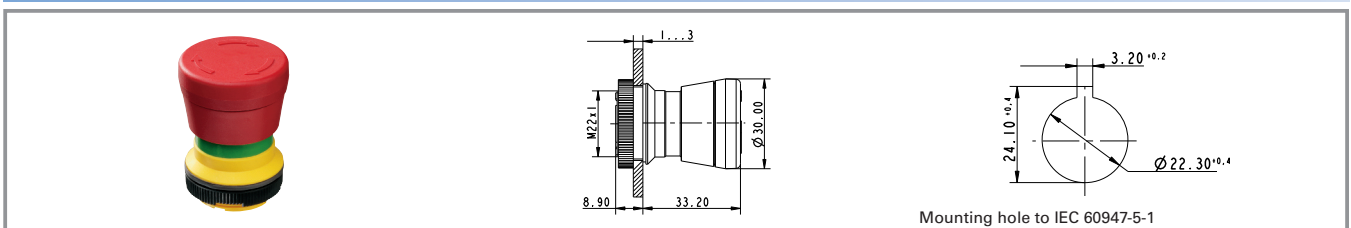
- **2 normally-closed (NC) contacts**  
Redundancy is more and more often a requirement for safety applications in mechanical engineering and control system development and helps to minimise the probability of failure of a system.
- **1 normally-open (NO) contact**  
The third contact – a normally-open contact – may be used, for example, for sending an information signal to a monitoring unit or master safety controller. The safety controller may then initiate a controlled shutdown, depending on the location and type of the hazard indicated.

The emergency stop pushbutton complies with the current standards. The positively guided mechanical movement of the pushbutton makes it dupe-proof according to DIN EN ISO 13850.

A RAFIX 22 FS "Plus1" emergency stop unit consists of a special emergency stop pushbutton and a suitable emergency stop contact block which can either be mounted directly (quick-connect terminals) or placed on a printed circuit board (THT version). For general information about the RAFIX 22 FS series, please refer to the RAFI catalogue "Electromechanical Components" or our website at [www.rafi.de](http://www.rafi.de)

**Only use with emergency stop "Plus1" contact blocks.**

**RAFIX 22 FS "Plus1" emergency stop pushbutton**



Resetting	Illumination	IP protection on front	Order no.
Turn clockwise	No	IP65	<b>1.30.253.502/0300*</b>
Pull	No	IP69K	<b>1.30.253.602/0300*</b>

**\*Only use with emergency stop "Plus1" contact blocks.**

## Technical data of "Plus1" emergency stop pushbutton

### Mounting dimensions

Mushroom head diameter	30 mm
Mounting depth	8.9 mm
Overall height	33.2 mm
Mounting hole	22.3 mm

### Mechanical design

Fixing	Ring nut
Contact function	Latching

### Mechanical characteristics

Mechanical strength min.	100 N
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### Further details

Operating temperature	-25 °C ... +70 °C
Robustness	Acc. to IEC 600 68-2-3 and 2-30
Operating life (operations)	50,000 min.
IP protection on front	See ordering table
Storage temperature	-40 °C ... +80 °C
Constant environment	IEC 600 68-2-14 and 2-30
Variable environment	IEC 600 68-2-14 and 2-33
Salt spray	IEC 600 68-2-11

## RAFIX 22 FS "Plus1" emergency stop contact blocks



Contact arrangement	Type	Connection	Mounting depth	Order no.
2 NC + 1 NO	E-stop "PLUS1"	Quick-connect terminals 2.8 x 0.8 mm	27 mm	<b>1.20.126.514/0000</b>
2 NC + 1 NO	E-stop "PLUS1"	PCB mounting THT version	9.2 mm	<b>1.20.126.414/0000</b>

## Technical data of "Plus1" emergency stop contact block

### Mounting dimensions

Diameter	17.3 mm
Mounting depth	27 mm / 9.2 mm

### Mechanical design

Fixing	Latching in actuator / soldering
Contact system	Self-cleaning bridge contact
Contact material	Gold
Contact arrangement	2 NC + 1 NO
NC contacts	positive opening acc. to IEC 60947-5-1
Terminals	Quick-connect/solder terminals 2.8 x 0.8 mm
Mechanical strength	100 N

### Electrical characteristics

Voltage rating	5 V - 42 V
Current rating	1 mA - 100 mA
Rated power	250 mW max.

### Further details

Operating life	50,000 at 10 mA/24 V DC
Switching reliability at 24V/5mA DC	10 x 10 <sup>-6</sup>
Approvals acc. to	IEC 60947-5-1/-5, 60204, 60073
Approvals under preparation:	cURus
Operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +80 °C
Plunger colour	Red
Robustness	Acc. to IEC 60947-5-5 (TÜV)
Shock resistance to IEC 600 68-2-27	15 g at 11 ms amplitude half sinusoidal
Resistance to vibration acc. to IEC 600 68-2-6	5 g at 10 ... 500 Hz
Constant environment	IEC 600 68-2-3 and 2-30
Variable environment	IEC 600 68-2-14 and 2-33

## Frequently used accessories for RAFIX 22 FS "Plus1" emergency stop pushbutton



Emergency stop adhesive labels, Ø 60 mm, for mounting hole diameter 22.3 mm		Order no.
Legending:	"NOT-HALT, EMERGENCY STOP, ARRET D'URGENCE, EMERGENZA"	5.76.204.107/0400
Legending:	"NOT-HALT"	5.76.204.109/0400
Legending:	"NOT-AUS"	5.76.204.111/0400
Legending:	"EMERGENCY-STOP"	5.76.204.113/0400

Emergency stop adhesive labels, small, Ø 40 mm, for mounting hole diameter 22.3 mm		Order no.
Legending:	"NOT-HALT, EMERGENCY STOP, ARRET D'URGENCE, EMERGENZA"	5.76.204.115/0400
Legending:	"NOT-HALT"	5.76.204.117/0400
Legending:	"NOT-AUS"	5.76.204.119/0400
Legending:	"EMERGENCY-STOP"	5.76.204.121/0400

For general information about the RAFIX 22 FS series, please refer to the RAFI catalogue "Electromechanical Components" or our website at [www.rafi.de](http://www.rafi.de)

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