

RAFIX FS switching element universal PCB, gold, for SMT LED, 2 NO, with light guide

DISCONTINUED



Description

These switching elements have external plungers and therefore can only be combined with pushbuttons, selector switches and keylock switches.

The PCB switching elements are positioned on a PCB shared with other components. These can subsequently be mounted behind the front panel together with the actuators and signal indicators. The switching elements "float" directly underneath the actuators on the PCB behind the front panel and leave plenty of space for other components.

In the center channel of the switching element, there are either light conductors for the use of SMT-LEDs, or 3 mm THT LEDs can be installed for illumination.

PCB mounting depths

- 9.2 mm for RAFIX 22 FS+ and RAFIX 22 FSR
- 15.7 mm for RAFIX 30 FS+:
- > PCB contact block for RAFIX 22 FS+, RAFIX FSR and RAFIX 30 FS
- > Only suitable for pushbuttons, selector and key switches, not for mushroom pushbutton and emergency stop
- > Gold contacts (= grey housing)
- > Mounting: Soldering on printed circuit board
- > Version with light guide for SMT LED, without light guide for THT LED
- > marking:
 - normally closed contacts = red plungers
 - normally open contacts = green plungers



technical data

> general Feature

with light guide

Disassembly possible

no

Color

dark gray

Operating temperature, min.
Operating temperature, max.

-40 °C

Storage temperature, min.

85 °C -40 °C

Storage temperature, max.

85 °C

illuminated

Yes

Luminous elements

LED

Lamp socket

LLD

Soldering

SMT LED
Manual / wave

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purposes may infringe the rights of the respective entity holding those rights. date: Jul 4, 2025 page: 1/4 RAFI GmbH & Co. KG

direct links

> RAFI eCatalog

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Solder heat resistance according

to standard

Packaging unit 30 pcs. net weight 2.2 g

Operating life electrical 1.000.000 (10mA / 24V DC) cycles B10 electrical 1.300.000 (10mA / 24V DC) cycles

Environment resistance IEC 60068-2-14

IEC 60068-2-30 IEC 60068-2-33 IEC 60068-2-78

DIN EN 60068-2-20

Shock resistance according to

standard IEC 60068-2-27

15 g at 11 ms amplitude semi-sinusoidal

Vibration resistance according to

standard IEC 60068-2-6

5 g at 10 - 500 Hz

Minimum order quantity (MOQ) 30 pcs.

RoHS compliant Yes

REACH compliant Yes

country of origin HU

> mounting diameters

Outside dimension, length 17.3 mm
Outside dimension, width 17.3 mm
Outside dimension, height 16.9 mm
Mounting depth 9.2 mm

> mechanical data

Operating force, max. 100 N Contact function 2 NO

Contact system Bridge contact

Contact material Gold
Fixing Soldering
Solderability Yes

Solderability Yes
Terminal on the rear THT

> electrical data

Rated insulation voltage 50 V Rated surge voltage 500 V Rated voltage, min. 0.02 V Rated voltage, max. 35 V Rated current, min. 0.001 A Rated current, max. 0.1 A Rated power, max. 0.25 W AC-15 Categories of use DC-13

Conditional short circuit current 1,000 A

> Specifications according to IEC 60947-5-1

Rated surge voltage 500 V

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Use according to UL:

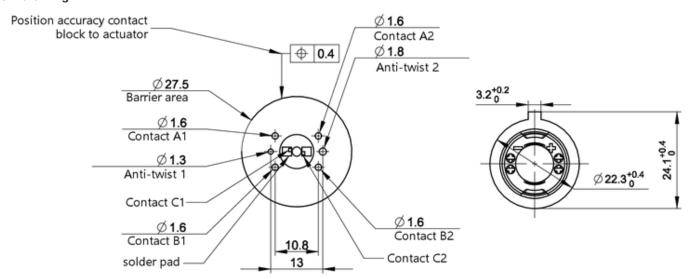
RAFIX control devices are defined at RAFI as modular elements, consisting of an actuating element, if necessary a coupling and an individual contact or lighting unit.

Actuating elements (such as pushbuttons, emergency stop actuators, etc.) have the intended tactility, reset and function only when assembled with the appropriate switching elements.



drawings

System drawing



System drawing

Variant	1S / 1NO	1Ö / 1NC	2S / 2NO	2Ö / 2NC	1S + 1Ö / 1NO + 1NC
Contact A1/A2	18 / 1NO	-	18 / 1NO	1Ö / 1NC	1S / 1NO
Connection designation	13 - 14		13 - 14	11-12	13 - 14
Contact B1/B2	-	1Ö / 1NC	18 / 1NO	1Ö / 1NC	10 / 1NC
Connection designation		21-22	23-24	21-22	21-22
Contact C1/C2* Connection designation	LED*	LED*	LED*	LED*	LED*

*LED assignment when actuator is illuminated

