

RAFIX FS switching element universal PCB, gold, for SMT LED, 1 NC, with light guide



fields of application

- > Measurement-control-regulation
- > Electrical engineering
- > Mechanical and system engineering
- > Signalling systems
- > Vehicle construction
- > Agricultural and forestry machinery
- > Construction machinery
- > Handheld terminals
- > Industrial robots



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
 - N/C and N/O contacts = yellow plungers



technical data

> general

Feature with light guide

Disassembly possible no

Color dark gray Operating temperature, min. -40 °C 85 °C Operating temperature, max. -40 °C Storage temperature, min. Storage temperature, max. 85 °C illuminated Yes Luminous elements **LED** Lamp socket SMT LED

Solder heat resistance according

to standard

Soldering

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

5 g at 10 - 500 Hz

15 g at 11 ms amplitude semi-sinusoidal

Manual / wave

DIN EN 60068-2-20

Shock resistance according to

standard IEC 60068-2-27

Vibration-resistance according to

standard IEC 60068-2-6

MOQ order 30 pcs.

RoHS compliant Yes

REACH compliant Yes

> mounting diameters

Outside dimension, width 17.75 mm
Outside dimension, height 17.35 mm
Mounting depth 9.2 mm

> mechanical data

Operating force, max. 100 N Contact function 1 NC

Contact system Bridge contact

Contact material Gold

Fixing Soldering

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

direct links

> RAFI eCatalog



Rated voltage, max. 35 V

Rated current, min. 0.00001 A

Rated current, max. 0.1 A Rated power, max. 0.25 W

Categories of use AC-15

DC-13

Conditional short circuit current 1,000 A

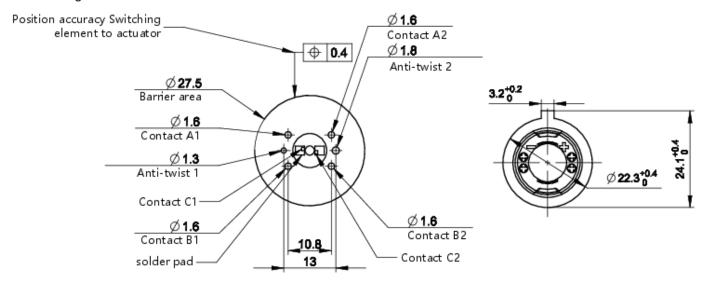
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drawings

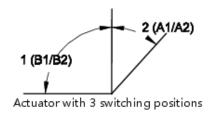
System drawing

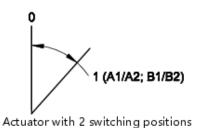


System drawing

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





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