### 3.14.001.041/0000



## RF 19, silver, spot illumination, 2.9 ± 0.6 N, lamp red, bezel transparent, 1 NO



#### fields of application

- > Measurement-control-regulation
- > Mechanical and system engineering
- > Automotive
- > Electro-medical

#### special features

- > Silver contacts, reliable switching with medium currents
- > Optional: spot illumination or full illumination
- > Key grid 23 mm
- > Overall height: 9.7 mm
- > Terminal technology: THT

# $\epsilon$

### description

The RF 19 silver tactile switches have a 19 x 19 mm edge length, reliable silver contacts and a noticeable click. They are used in flat data entry keyboards under overlays or under keycaps, such as RAFI RK 90 keycaps.

Flat data entry keyboards with RF 19 elements should be constructed in a 23 mm grid. With this grid, strips of glue remain between the individual keys on the front panel. The overlay, which we recommend embossing above the key switches, can be glued onto these strips of glue.

### technical data

>	general

Bezel color transparent Luminous element color

red

-25 °C Operating temperature, min. Operating temperature, max. 70 °C Storage temperature, min. -25 °C 70 °C Storage temperature, max.

illuminated Yes Luminous elements Spot illumination 1 LED

5 sec

Soldering time for manual

soldering, max.

Soldering temperature for manual 350 °C

soldering

Soldering temperature for wave 260 °C

soldering

Soldering Manual / wave

Solder heat resistance according

to standard

Tube Packaging

#### direct links

> RAFI eCatalog

The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights. date: Mar 6, 2025 page: 1/4

DIN EN 60068-2-20

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Packaging unit 25 pcs. net weight 4 g

Operating life 1,000,000 cycles
B10 1,300,000 cycles
Environment resistance IEC 60068-2-14

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

MOQ order 25 pcs.

RoHS compliant Yes

REACH compliant Yes

> mounting diameters

Outside dimension, length 19.05 mm
Outside dimension, width 19.05 mm
Outside dimension, height 9.7 mm
Installation height 9.7 mm
Grid, min. 23 mm

> mechanical data

Actuation function momentary contact function

Operating force, max. 100 N 
Operating force, min.  $2.9 \pm 0.6 \text{ N}$  
Switching travel  $0.5^{+0.3} \text{ mm}$ 

Contact function 1 NO

Contact system Snap-action contact

Contact material Silver
Fixing Soldering
Solderability Yes

Solderability Yes
Terminal on the rear THT

> electrical data

Operating voltage of the luminous 2 V

element, min.

Operating voltage of the luminous 5 V

element, max.

Rated voltage, min. 3 V
Rated voltage, max. 35 V
Operating current of the luminous 30 mA

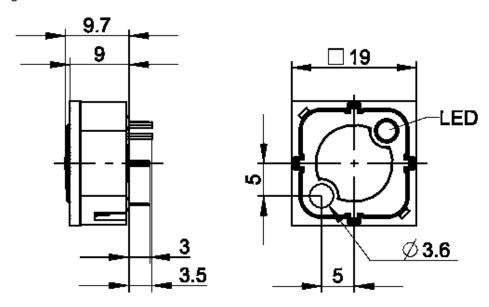
element, max.

Rated current, min. 0.0001 A
Rated current, max. 0.25 A
Rated power, max. 12.5 W
dropping resistor no

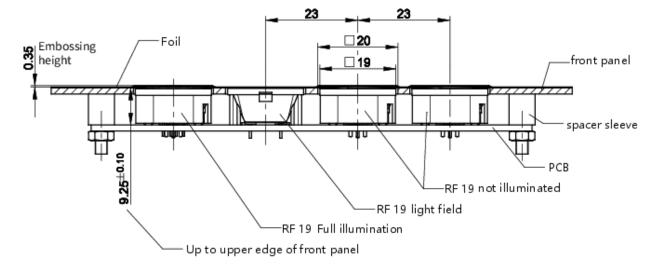


### drawings

### **Dimensioned drawing**



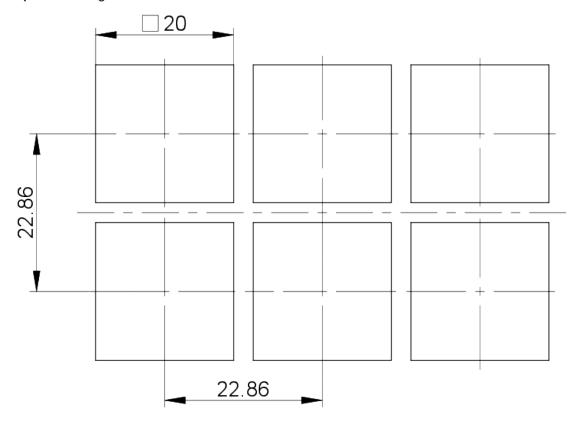
### System drawing



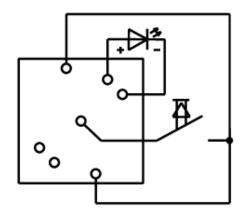
### 3.14.001.041/0000



#### front panel drawing



### Circuit diagram



## Button point illumination

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