# 3.14.002.015/0000



# RF 19, gold, full illumination, 2.9 ± 0.6 N, lamp blue, bezel blue, 1 NO



#### fields of application

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

#### special features

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

# CE

## description

The RF 19 gold tactile switches have a  $19 \times 19$  mm edge length, reliable gold 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 blue
Luminous element color blue

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

Luminous elements Full illumination 2 LEDs

Yes

5 sec

Soldering time for manual

soldering, max.

illuminated

Soldering temperature for manual 350 °C

soldering

Soldering temperature for wave 260 °C

soldering

Soldering Manual / wave
Solder heat resistance according DIN EN 60068-2-20

to standard

Packaging Tube

direct links

> RAFI eCatalog

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Packaging unit 25 pcs. net weight 5.5 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 Gold
Fixing Soldering
Solderability Yes

Terminal on the rear THT

> electrical data

Operating voltage of the luminous 2.7 V

element, min.

Operating voltage of the luminous 5 V

element, max.

Rated voltage, min. 0.02 V
Rated voltage, max. 35 V
Operating current of the luminous 20 mA

element, max.

Rated current, min.

Rated current, max.

0.00001 A

0.1 A

Rated power, max.

2 W

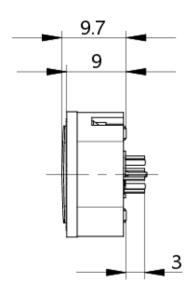
dropping resistor

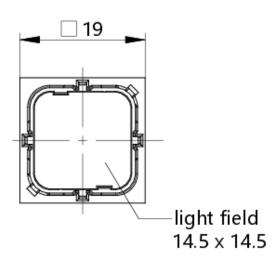
no



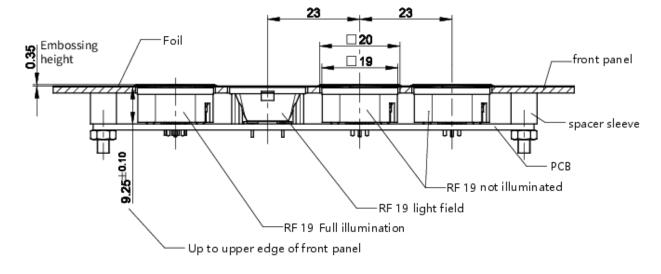
# drawings

### **Dimensioned drawing**





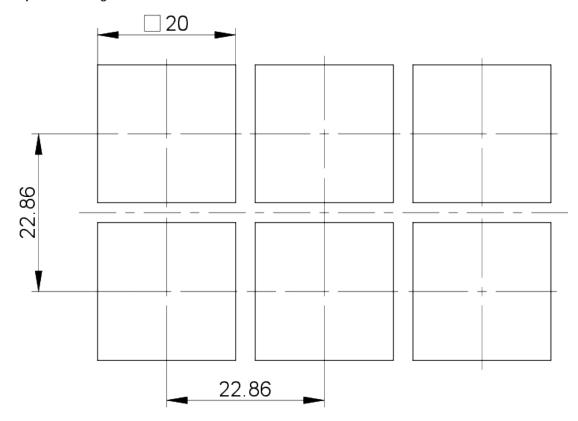
#### System drawing



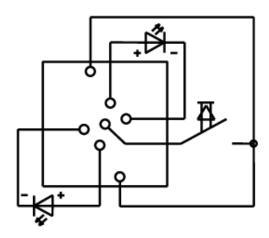
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#### front panel drawing



## Circuit diagram



# Button full illumination