

# RF 19, gold, full illumination, 2,9<sup>±0,6</sup> N, lamp yellow, bezel white, 1



#### 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

## $C \in$

## description

The RF 19 gold tactile switches have a 19 x 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

illuminated Yes Bezel color white

Luminous element color yellow
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

Soldering time for manual 5 sec

soldering, max.

Soldering temperature for manual 350 °C

soldering

Soldering temperature for wave 260 °C

soldering

Soldering Manual / wave

Packaging Tube

#### direct links

> RAFI eCatalog

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## 3.14.002.902/0000



Packaging unit 25 pcs.

Environment resistance IEC 60068-2-14

IEC 60068-2-30

IEC 60068-2-33

IEC 60068-2-78

Operating life 1,000,000 Cycles

B10 1,300,000 Cycles

RoHS compliant Yes
REACH compliant Yes

Solder heat resistance according DIN EN 60068-2-20

to standard

MOQ order 250

> mounting diameters

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

> mechanical data

Actuation function momentary contact function

Operating force, max. 100 N 
Operating force, min.  $2,9^{\pm0,6}$  N 
Switching travel  $0,5^{+0,2}$  mm

Contact function 1 NO

Contact system Snap-action contact

Contact material Gold
Fixing Soldering
Terminal on the rear THT

Solderability Yes

> electrical data

Operating voltage of the luminous 24 V

element, max.

Rated voltage, min. 0.02 V
Rated voltage, max. 35 V
Rated current, min. 0.00001 A

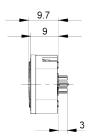
Rated current, max. 0.1 A
Rated power, max. 2 W

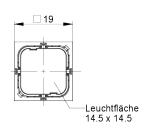
## 3.14.002.902/0000



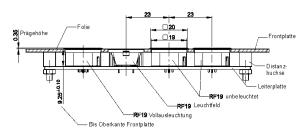
## drawings

## **Dimensioned drawing**

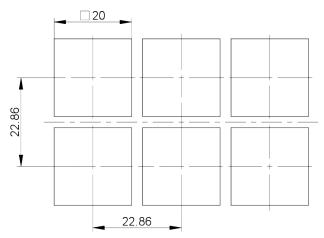




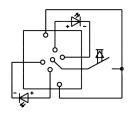
## System drawing



## front panel drawing



## Circuit diagram



Button full illumination