## 3.14.002.011/0000



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

# $c \in$

## 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

Packaging unit

>	general		
	Bezel color	red	direct links
	Luminous element color	red	> RAFI eCatalog
	Operating temperature, min.	-25 °C	
	Storage temperature, min.	-25 °C	
	Operating temperature, max.	70 °C	
	Storage temperature, max.	70 °C	
	illuminated	Yes	
	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	
	Solder heat resistance according	DIN EN 60068-2-20	
	to standard		
	Packaging	Tube	

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.

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25 pcs.

RAFI GmbH & Co. KG

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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

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  $2.9^{\pm0,6} N$ Operating force, min. 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 2 V

element, min.

Operating voltage of the luminous 5 V

element, max.

Rated voltage, min. 0.02 V 35 V Rated voltage, max. Operating current of the luminous 30 mA

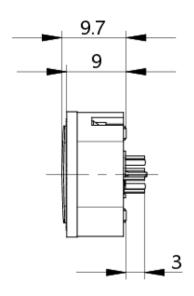
element, max.

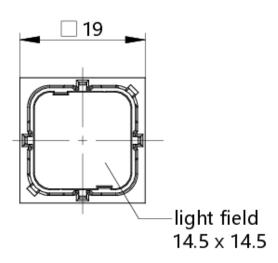
0.00001 A Rated current, min. Rated current, max. 0.1 A Rated power, max. 2 W dropping resistor nο



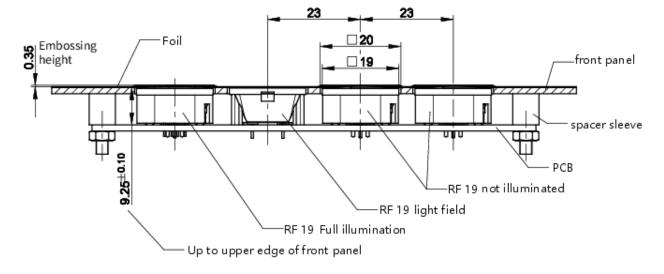
## drawings

### **Dimensioned drawing**





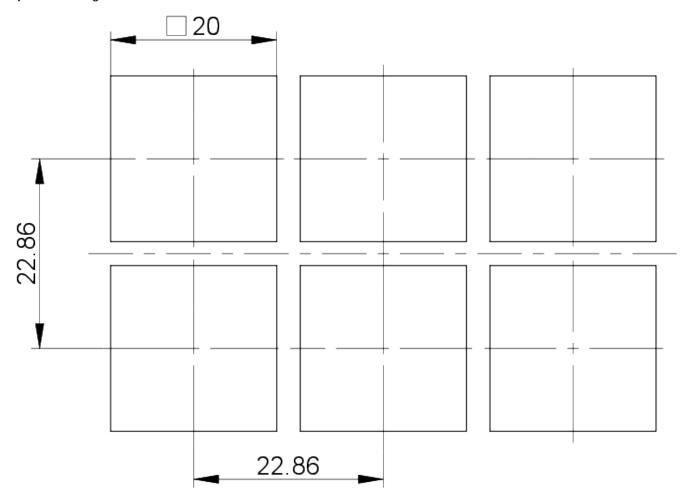
### System drawing



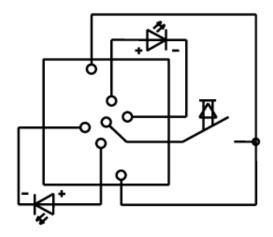
## 3.14.002.011/0000



### front panel drawing



## Circuit diagram



## Button full illumination