

# RF 19 H, gold, full illumination, $2.9 \pm 0.6$ N, lamp yellow, bezel yellow, 1 NO



#### fields of application

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

#### special features

- Gold contacts, reliable switching with low currents
- > Full illumination
- > Min. key grid 24 mm
- > Overall height: 12.5 mm
- > Terminal technology: THT

## CE

#### description

The RF 19 H 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 H elements should be constructed in a 24 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.

The key switch can be locked with an O-ring (accessory) and used as a signal indicator or placeholder.

#### technical data

>	general

Bezel color yellow
Luminous element color yellow

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

direct links

> RAFI eCatalog

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Packaging Tube
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 12.5 mm
Installation height 12.5 mm
Grid, min. 24 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
Soldershilltus Yea

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.

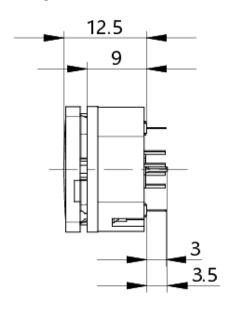
Rated voltage, min. 0.02 V
Rated voltage, max. 35 V
Rated current, min. 0.00001 A
Rated current, max. 0.1 A

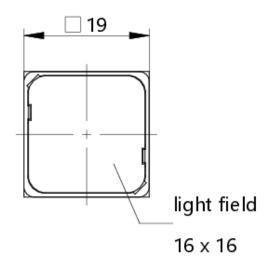
Rated power, max. 2 W dropping resistor no



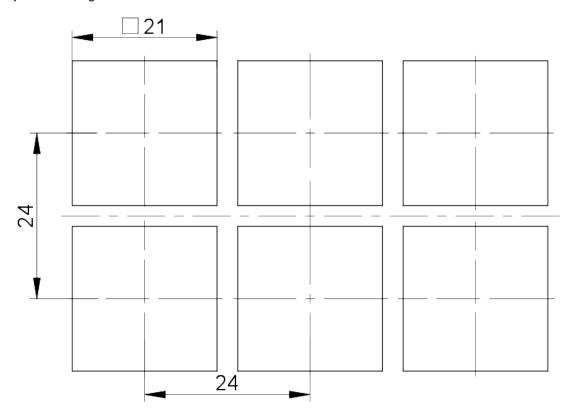
## drawings

#### **Dimensioned drawing**



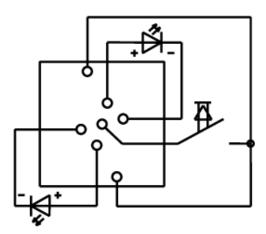


#### front panel drawing





#### Circuit diagram



Button full illumination