

# RF 15, gold, spot illumination, 2.9 ± 0.6 N, lamp blue, bezel white, 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 19.05 mm
- > Overall height: 9.7 mm or 12.5 mm with keycap
- > Terminal technology: THT

CE

### description

The RF 15 gold tactile switches have a  $15 \times 15$  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 15 elements should be constructed in a 19.05 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.

RF 15, mit Gold-Kontakten, Punktausleuchtung mit 1 LED in verschiedenen Farben. Die LED sitzt in der Ecke des Tasters.

#### technical data

> general		
Bezel color	white	direct links
Luminous element color	blue	> RAFI eCatalog
Operating temperature, min.	-25 °C	
Operating temperature, max.	70 °C	
Storage temperature, min.	-25 °C	
Storage temperature, max.	70 °C	
illuminated	Yes	
Luminous elements	Spot illumination 1 LED	
Soldering time for manual soldering, max.	5 sec	
Soldering temperature for manual soldering	350 °C	
Soldering temperature for wave soldering	260 °C	
Soldering	Manual / wave	
Solder heat resistance according to standard	DIN EN 60068-2-20	

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Tube Packaging Packaging unit 25 pcs. net weight 2 g

Operating life 1,000,000 cycles B10 1,300,000 cycles

MOQ order 25 pcs. RoHS compliant Yes **REACH** compliant Yes

> mounting diameters

Outside dimension, length 15 mm Outside dimension, width 15 mm Outside dimension, height 9.7 mm Installation height 9.7 mm Grid, min. 19.05 mm

> mechanical data

Actuation function momentary contact function

100 N Operating force, max. Operating force, min.  $2.9 \pm 0.6 N$ Switching travel 0.5<sup>+0.3</sup> mm 1 NO Contact function

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.

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

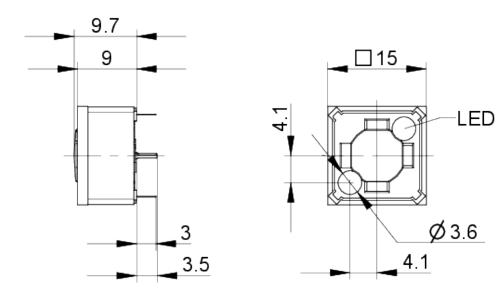
element, max.

Rated current, min. 0.00001 A Rated current, max. 0.1 A Rated power, max. 2 W dropping resistor no

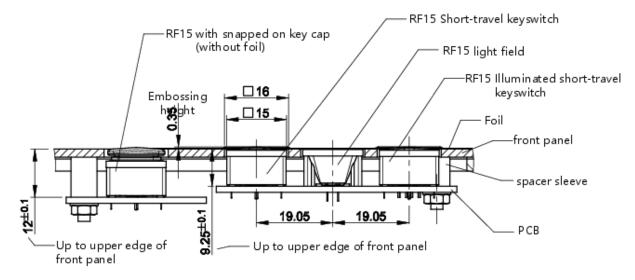


## drawings

#### **Dimensioned drawing**

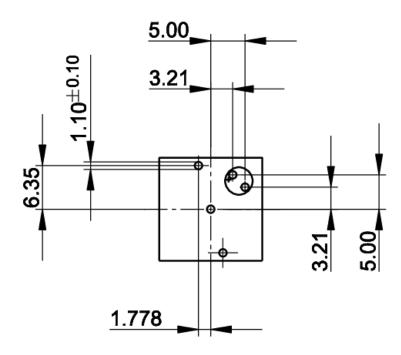


#### System drawing



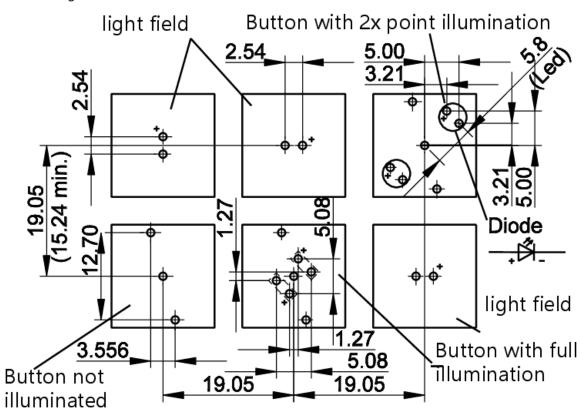


#### **PCB** drawing



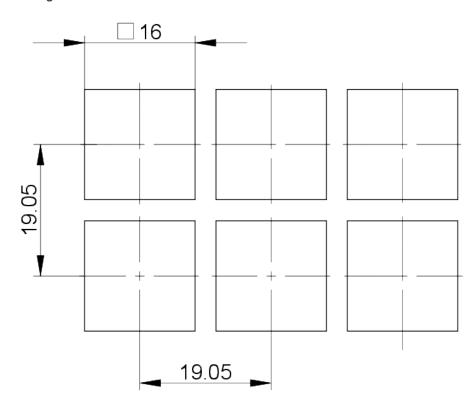
Button with 1x point illumination

#### **PCB** drawing





#### front panel drawing



#### front panel drawing

