RAFI

RF 15, silver, full illumination, 2,9$^{±0,6}$ N, lamp yellow, bezel yellow, 1 NO

fields of application

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

special features

> Silver contacts, reliable switching with medium 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 silver tactile switches have a 15 x 15 mm edge length, reliable silver 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 Silber-Kontakten, vollflächige Ausleuchtung der Blende zur Ausleuchtung von Fenstern in der Dekorfolie, bzw. transparenten Tastenkappen RK 90.

technical data

> **general**

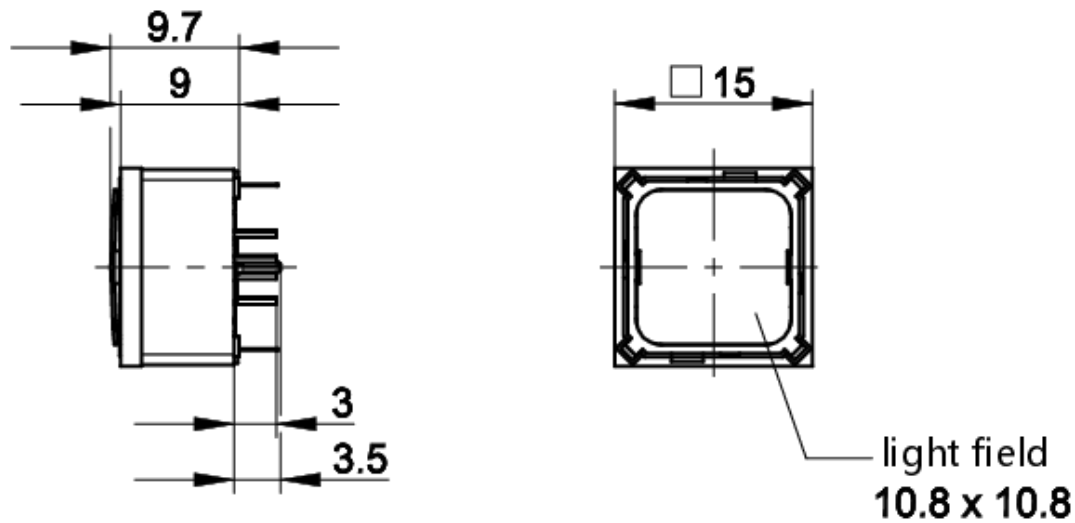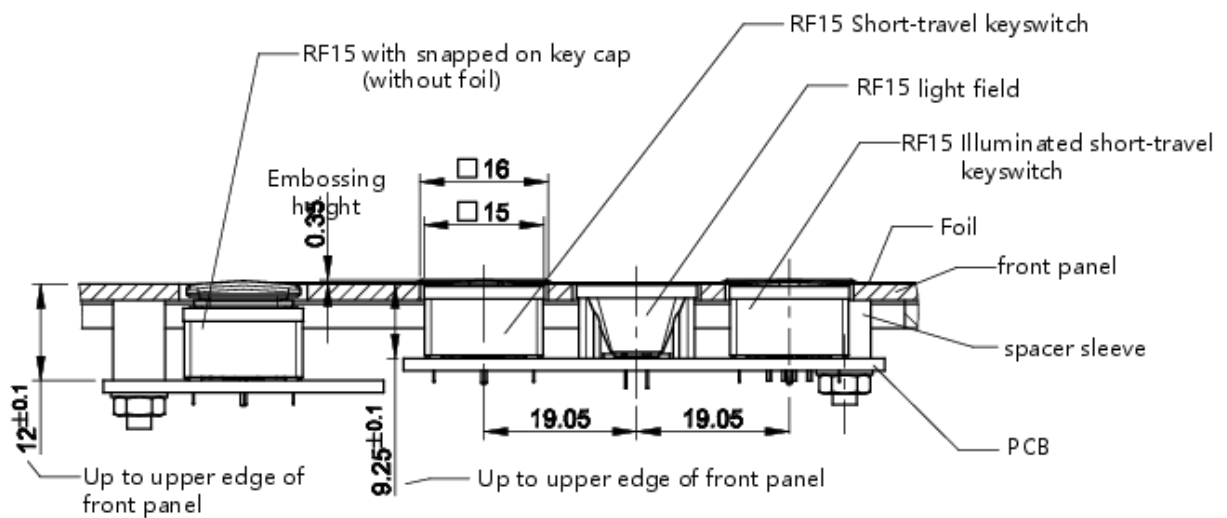|	
Bezel color	yellow
Luminous element color	yellow
Operating temperature, min.	-25 °C
Storage temperature, min.	-25 °C
Operating temperature, max.	70 °C
Storage temperature, max.	70 °C
illuminated	Yes
Luminous elements	Full illumination 2 LEDs
Soldering time for manual soldering, max.	5 sec
Soldering temperature for manual soldering	350 °C
Soldering temperature for wave soldering	260 °C
Soldering	Manual / wave

direct links

> RAFI eCatalog

Solder heat resistance according to standard	DIN EN 60068-2-20
Packaging	Tube
Packaging unit	32 pcs.
net weight	2.8 g
Operating life	1,000,000 cycles
B10	1,300,000 cycles
MOQ order	32 pcs.
RoHS compliant	Yes
REACH compliant	Yes

> mounting diameters

Installation height	9.7 mm
Grid, min.	19.05 mm
Outside dimension, length	15 mm
Outside dimension, width	15 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	Silver
Fixing	Soldering
Terminal on the rear	THT
Solderability	Yes

> electrical data

Operating voltage of the luminous element, min.	2 V
Operating voltage of the luminous element, max.	5 V
Rated voltage, min.	3 V
Rated voltage, max.	35 V
Operating current of the luminous element, max.	20 mA
Rated current, min.	0.0001 A
Rated current, max.	0.25 A
Rated power, max.	12.5 W
dropping resistor	no

drawings

Dimensioned drawing

9.7
9
3
3.5

□ 15

light field
10.8 x 10.8

System drawing

RF15 with snapped on key cap (without foil)

RF15 Short-travel keyswitch

RF15 light field

RF15 Illuminated short-travel keyswitch

Embossing height
0.3

□ 16
□ 15

Foil

front panel

spacer sleeve

PCB

12±0.1

9.25±0.1

19.05   19.05

Up to upper edge of front panel

Up to upper edge of front panel
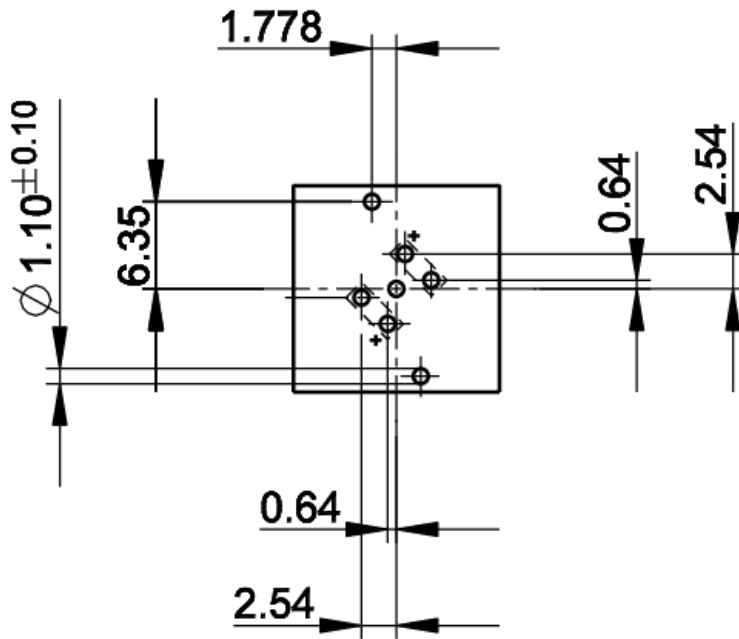
PCB drawing

Button full illumination

PCB drawing

light field

Button with 2x point illumination
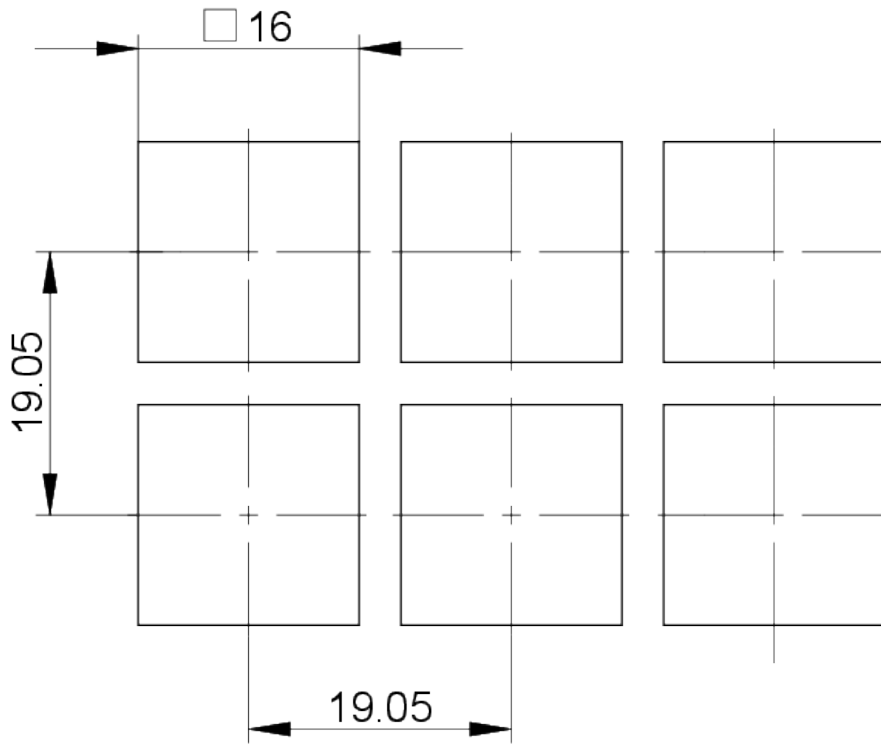
Diode

light field

Button not illuminated

Button with full illumination
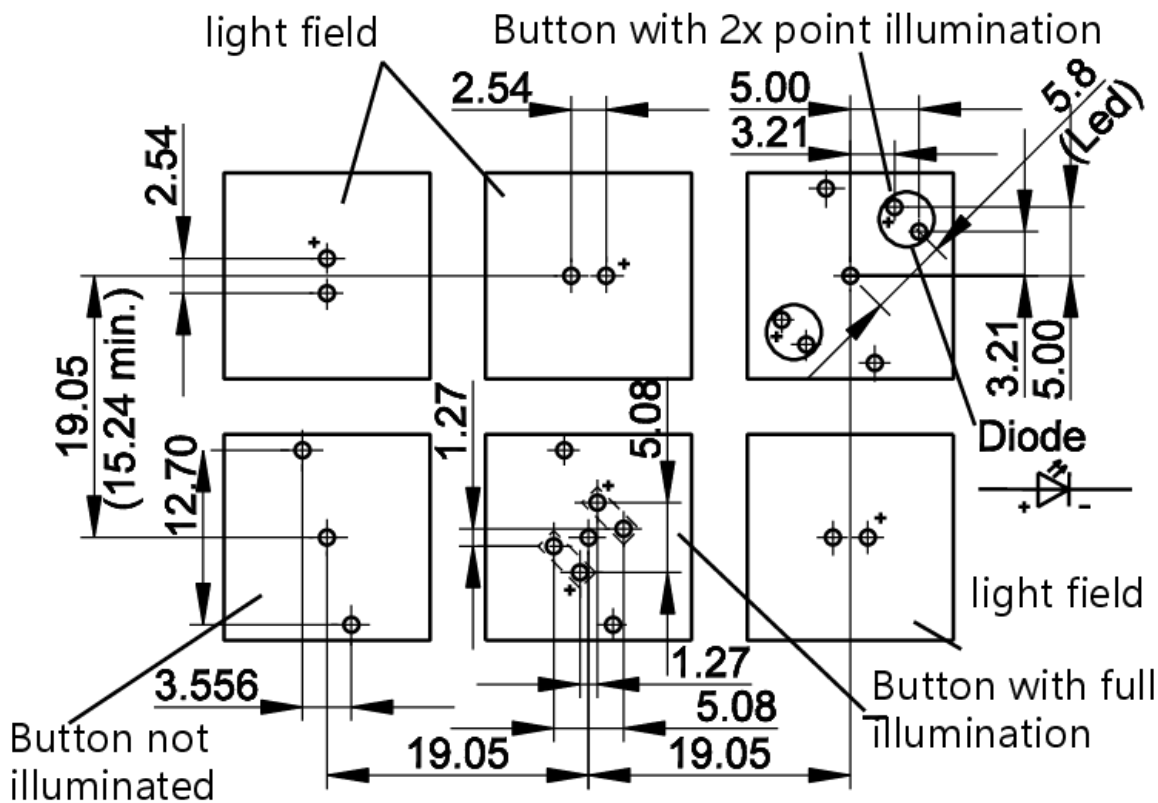
front panel drawing

front panel drawing