

RF 15, silver, full illumination, 2,9^{±0,6} N, lamp yellow, bezel white, 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



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

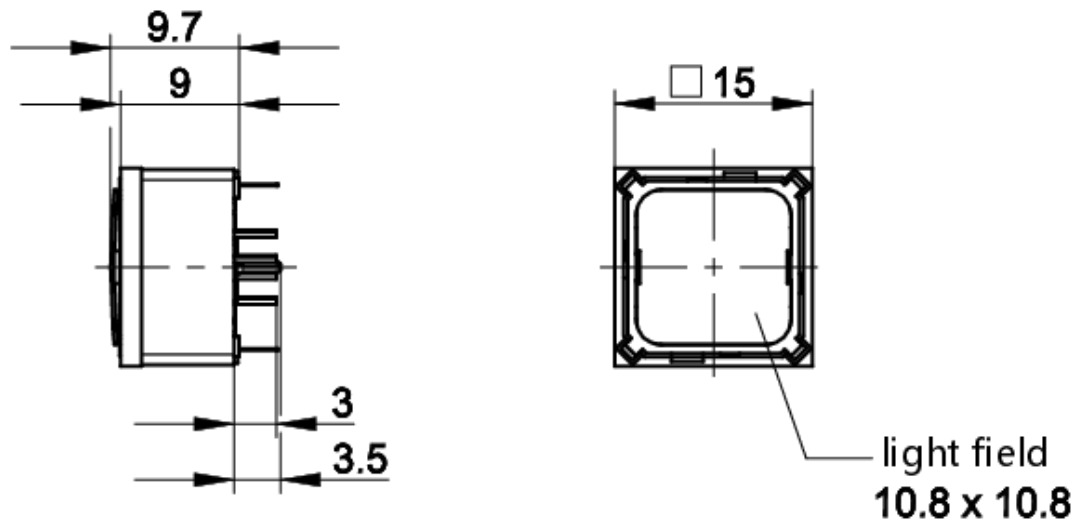
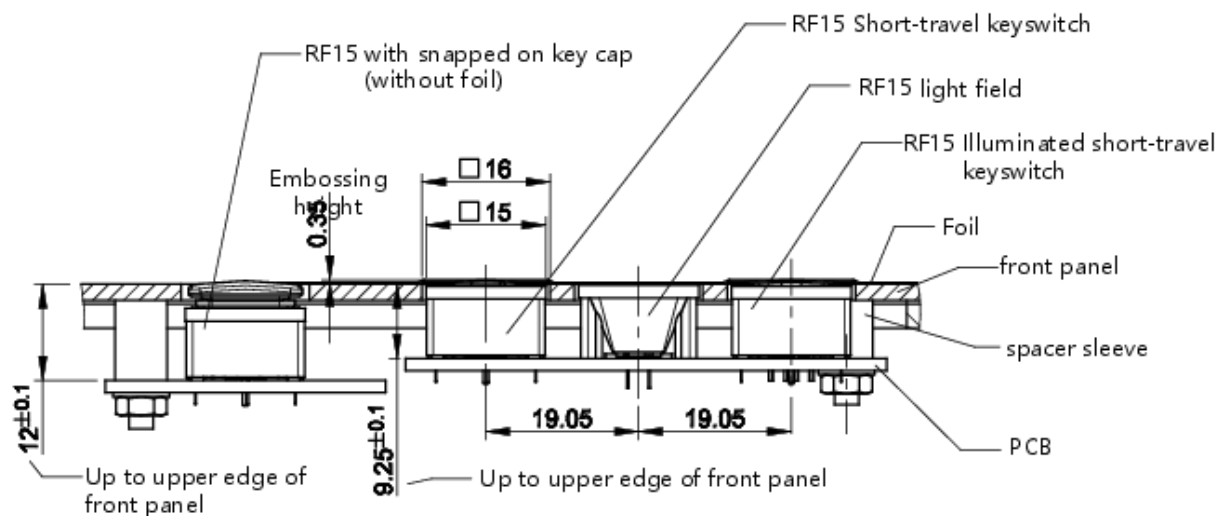
➤ general

Bezel color	white
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	2.6 g
Operating life	1,000,000 cycles
B10	1,300,000 cycles
MOQ order	256 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 $\pm$ 0,6 N
Switching travel	0,5 $\pm$ 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****System drawing**

Technical drawing of a square plate with the following dimensions and features:

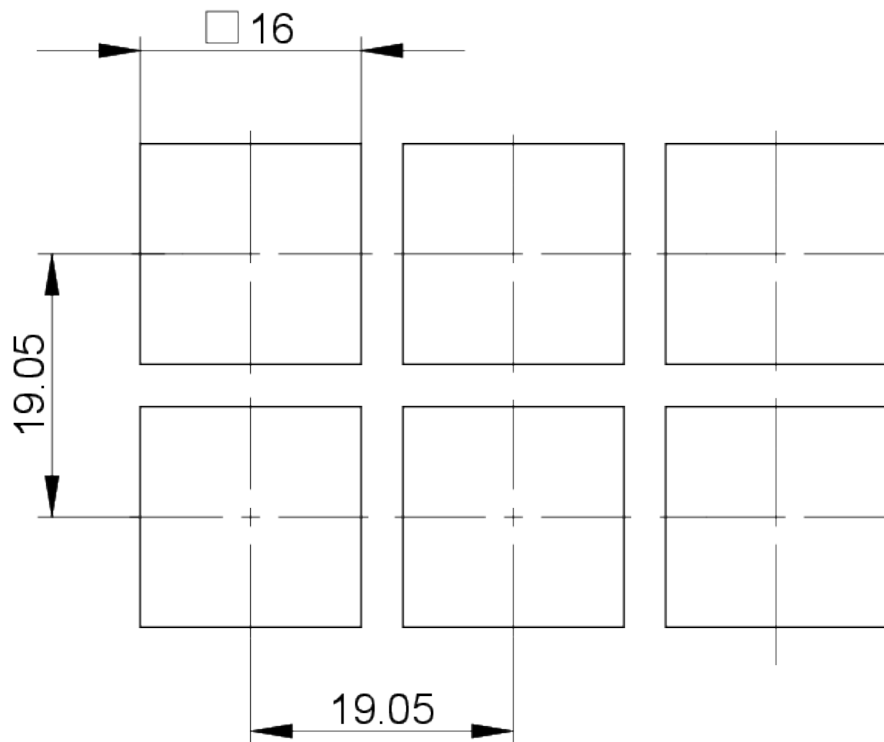
- Overall Dimensions:** The plate is square with side lengths of 6.35 units.
- Hole Pattern:** There are eight circular holes arranged in two concentric squares. The outer square has a side length of 1.778 units, and the inner square has a side length of 0.64 units. Both squares are centered within the plate.
- Central Feature:** A central feature is located at the center of the plate, consisting of a circle with a diameter of $\phi 1.10 \pm 0.10$.
- Other Dimensions:** The distance from the center of the plate to the center of each hole is 2.54 units.

Button full illumination

Diagram illustrating the experimental setup for the 3x3 grid task. The setup includes a 3x3 grid of buttons with various dimensions and labels:

- Grid Dimensions:**
 - Overall width: 19.05 inches (15.24 min.)
 - Overall height: 19.05 inches
 - Button width: 5.08 inches
 - Button height: 3.556 inches
 - Spacing between buttons (horizontal): 1.27 inches
 - Spacing between buttons (vertical): 1.27 inches
- Buttons and Illumination:**
 - Button not illuminated:** Located at the bottom-left position.
 - Button with 2x point illumination:** Located at the top-middle position.
 - Button with full illumination:** Located at the bottom-middle position.
 - Buttons with 1x point illumination:** Located at the top-left, top-right, middle-left, middle-right, and bottom-right positions.
- Diode:** A diode symbol is shown with a '+' sign and a '-' sign, labeled "Diode".
- Light Field:** The area around the buttons is labeled "light field".
- Other Dimensions:**
 - 2.54 inches (vertical spacing between top buttons)
 - 5.00 inches (horizontal spacing between top buttons)
 - 3.21 inches (vertical spacing between top and middle buttons)
 - 5.8 inches (diagonal distance from top-right button to bottom-right button)
 - 3.21 inches (vertical spacing between middle and bottom buttons)
 - 5.00 inches (horizontal spacing between middle and bottom buttons)

front panel drawing



front panel drawing

