

# RF 15, gold, 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

- 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 x 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, vollflächige Ausleuchtung der Blende zur Ausleuchtung von Fenstern in der Dekorfolie, bzw. transparenten Tastenkappen RK 90.

### technical data

### > general

/	general		
	Bezel color	yellow	direct links
	Luminous element color	yellow	> 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	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	

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. **date**: Feb 28, 2024 **page**: 1/5

### RAFI GmbH & Co. KG

### 3.14.200.013/0000



	Solder heat resistance according	DIN EN 60068-2-20
	to standard	
	Packaging	Tube
	Packaging unit	32 pcs.
	net weight	1.6 g
	Operating life	1,000,000 cycles
	B10	1,300,000 cycles
	MOQ order	32 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
	Operating force, max.	100 N
	Operating force, min.	2.9 ± 0.6 N
	Switching travel	0,5 <sup>+0,2</sup> mm
	Contact function	1 NO
	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 V
	element, min.	
	Operating voltage of the luminous	5 V
	element, max.	
	Rated voltage, min.	0.02 V
	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

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. **date**: Feb 28, 2024 **page**: 2/5

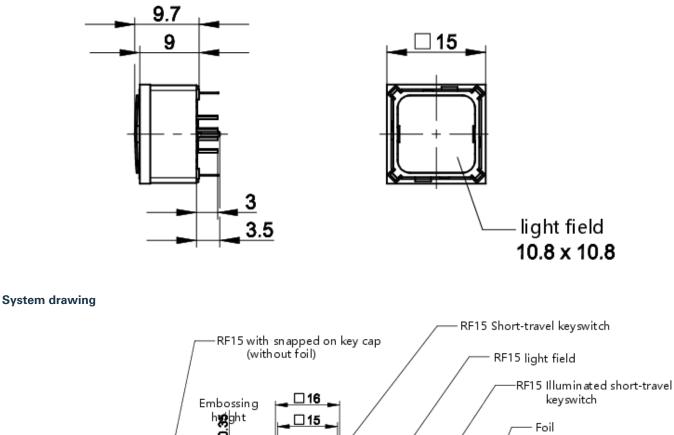
#### RAFI GmbH & Co. KG

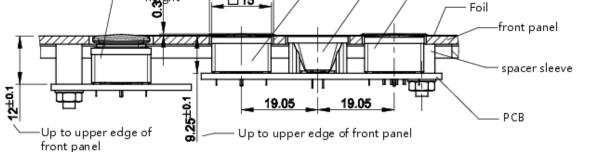
### 3.14.200.013/0000



### drawings

### **Dimensioned drawing**





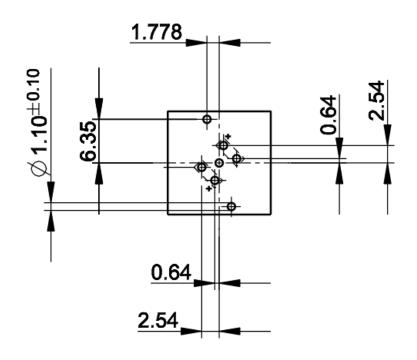
The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products 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. **date**: Feb 28, 2024 **page**: 3/5

#### RAFI GmbH & Co. KG

### 3.14.200.013/0000

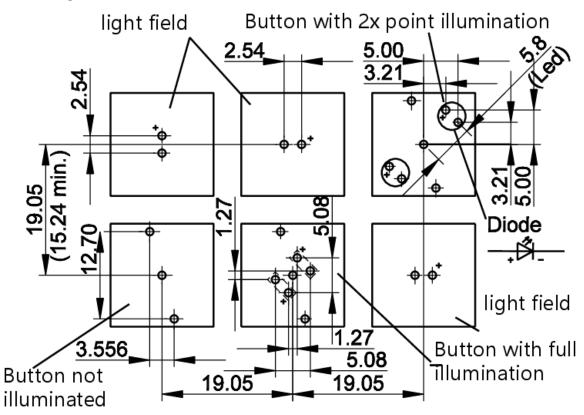


### PCB drawing



Button full illumination

PCB drawing



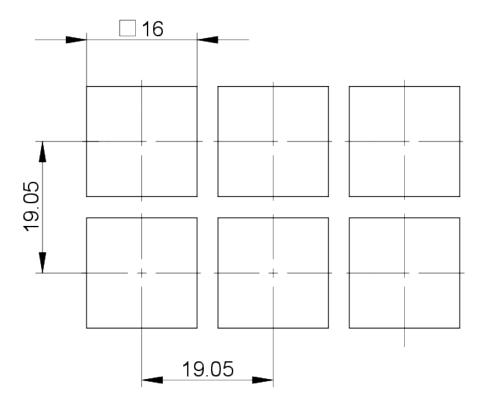
The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products 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. **date**: Feb 28, 2024 **page**: 4/5

### RAFI GmbH & Co. KG

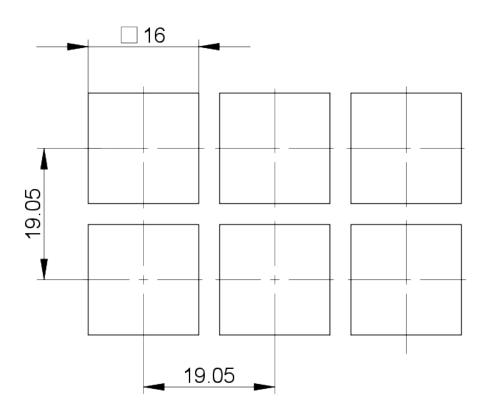
3.14.200.013/0000



### front panel drawing



### front panel drawing



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. **date**: Feb 28, 2024 **page**: 5/5

#### RAFI GmbH & Co. KG