

## RF 19 H, gold, full illumination, 2.9 ± 0.6 N, lamp green, bezel green, 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	green	direct links
	Luminous element color	green	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	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		

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: Sep 25, 2023 page: 1/4

#### RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany . www.rafi-group.com info.headquarters@rafi-group.com technical data sheet





	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 ± 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	30 mA
	element, max.	
	Rated current, min.	0.00001 A
	Rated current, max.	0.1 A
	Rated power, max.	2 W
	dropping resistor	no

#### RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com, info.headquarters@rafi-group.com

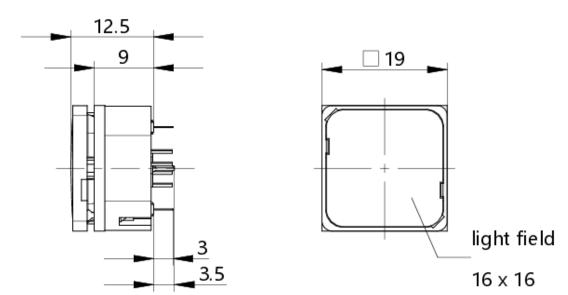
#### technical data sheet



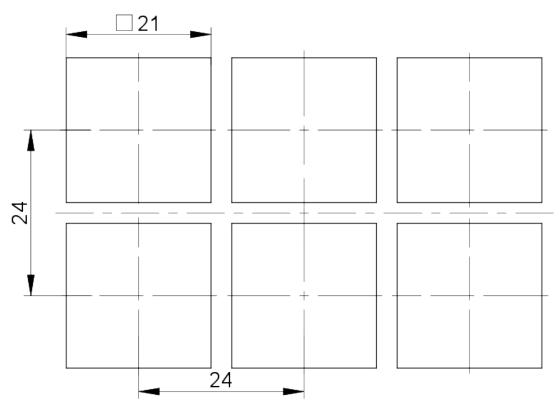


## drawings

## **Dimensioned drawing**



## front panel drawing



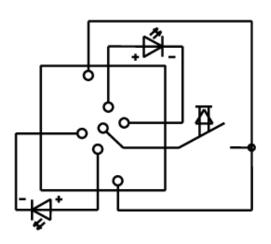
The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products 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**: Sep 25, 2023 **page**: 3/4

#### RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com, info.headquarters@rafi-group.com technical data sheet 3.14.002.632/0000



## **Circuit diagram**



Button full illumination

#### RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com, info.headquarters@rafi-group.com