

KN 19, 1NO + 1NC, 9.0 ± 3.0 N



fields of application

- > Measurement-control-regulation
- > Mechanical and system engineering
- > Electro-medical
- > Home technology

special features

- Silver contacts for reliable switching (250 V / 6 A)
- > For use beneath closed overlays / keycaps
- > Optional: spot illumination with 1 LED
- > Overall height: 9.7 mm
- > Terminal technology: THT



description

KN 19 offers the possibility of integrating the mains switch (250 V / 6A) directly into the low-profile data entry system. This means there is no need for extra switches on the device and therefore no additional openings in the overlay. This enables optimal device safety and uniform design. The contact opening widths comply with the VDE guidelines. The KN 19 can also be used under RK 90 keycaps.

technical data

>	general				
	Operating temperature, min.	-25 °C	direct links		
	Operating temperature, max.	70 °C	> RAFI eCatalog		
	Storage temperature, min.	-40 °C			
	Storage temperature, max.	70 °C			
	illuminated	Yes			
	Luminous elements	LED			
	Soldering time for manual	3 sec			
	soldering, max.				
	Soldering temperature for manual	350 °C			
	soldering				
	Soldering	wave soldering according to DIN EN 61760-1			
	Packaging	Tube			
	Packaging unit	12 pcs.			
	net weight	9 g			
	Operating life electrical	100,000 (6A / 250V AC) cycles			
		50,000 (10A / 50V DC) cycles			
	B10 electrical	130.000 (6A / 250V AC) cycles			
		65.000 (10A / 50V DC) cycles			
	Degree of protection, front side, according to DIN EN 60529	IP40			
	MOQ order	12 pcs.			
	RoHS compliant	Yes			
	REACH compliant	Yes			
>	> mounting diameters				

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**: 1/4

RAFI GmbH & Co. KG

technical data sheet





Outside dimension, length	37.8 mm
Outside dimension, width	18.8 mm
Outside dimension, height	9.7 mm
Installation height	9.7 mm
Grid, min.	19.05 x 38.1 mm
mechanical data	
Actuation function	latching
Operating force, max.	100 N
Operating force, min.	9 ± 3.0 N
Switching travel	0,55 ^{±0,15} mm
Bounce time at 10 mm/s	<10 ms
Contact function	1 NC + 1 NO
Contact system	Bridge-snap-action contact
Contact material	Silver
Fixing	Soldering
Solderability	Yes
Terminal on the rear	THT
electrical data	
Rated voltage, min.	12 V
Rated voltage, max.	250 V
Rated current, min.	0.1 A
Rated current, max.	6 A
Rated power, max. DC	250 W
	Outside dimension, width Outside dimension, height Installation height Grid, min. mechanical data Actuation function Operating force, max. Operating force, min. Switching travel Bounce time at 10 mm/s Contact function Contact system Contact system Contact system Contact material Fixing Solderability Terminal on the rear electrical data Rated voltage, min. Rated voltage, max. Rated current, min. Rated current, max.

RAFI GmbH & Co. KG

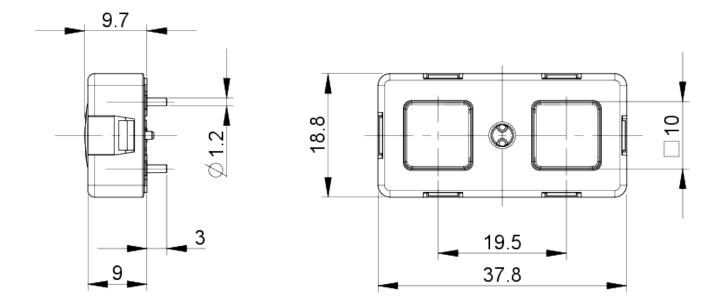
technical data sheet

1.12.000.001/0000

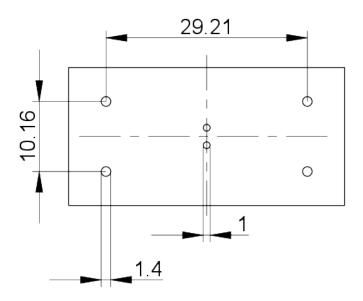


drawings

Dimensioned drawing



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**: 3/4

RAFI GmbH & Co. KG

technical data sheet





Schematic diagram

 $[\sim \stackrel{i}{\prec} \stackrel{j}{\leftarrow} \stackrel{-}{\prec} \stackrel{j}{\leftarrow} \stackrel{-}{\prec} \stackrel{j}{\rightarrow}]$

1 NC + 1 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**: 4/4

RAFI GmbH & Co. KG