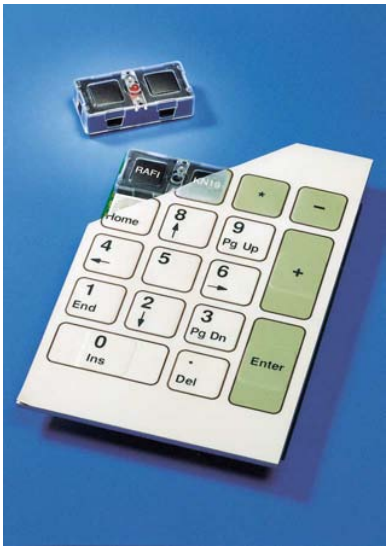


General data

Short-travel main switch for use in membrane keyboards under the overlay or with RK 90 keycaps, 250V, 4A max. A cut-out in the overlay is not required!

Content

KN 19 short-travel main switch

Pict.: 1 NC + 1 NO

Pict.: 2 NC/2 NO

General data

The KN 19 makes it possible to implement a power switch directly in a low-profile data entry system. This eliminates the need for extra switches on the device and additional openings in the overlay. In this way, you can achieve an optimum of safety and a consistent design.
The contact opening widths comply with the VDE standards. The KN 19 can also be employed underneath RK 90 keycaps.
Other actuation functions (momentary, latching/momentary) available on request.

Technical data

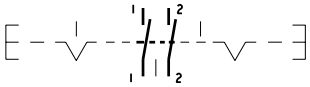
4

KN 19

General information	
Recommended key grid	19.05 x 38.1 mm
Dimensions	
Length	37.8 mm
Width	18.8 mm
Overall height	9.7 mm
Mechanical design	
Mounting	on PCB
Terminals	solder terminals
Contact system	snap-action bridge contact
Contact arrangement	see order block
Contact materials	Ag
Illumination	1 LED (max. 3 mm) possible
Degree of protection	IP40
Hot wire ignition acc. to IEC 60695-2-1	850 °C
Mechanical characteristics	
Operating force max.	$9^{\pm 3}$ N
Operating travel	$0{,}55^{\pm 0{,}15}$ mm
Robustness max.	100 N
Electrical characteristics	
Rated voltage min. AC	12 V
Rated voltage min. DC	12 V
Rated voltage max. DC	50 V
Rated voltage max. AC	250 V
Ohmic load AC	6 A
Ohmic load DC min.	0.1 A
Ohmic load DC max.	10 A
Contact resistance when new max.	50 mΩ
Capacity input current AC max.	100 A
Rated motor current AC	4 A
Rated filament lamp current AC	2,4 A
Bouncing time max.	10 ms
Other specifications	
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Resistance to constant environment	according to IEC 600 68-2-3 and 2-30
Resistance at variable environment	according to IEC 600 68-2-14 and 2-33
Approvals	ENEC, UL and CSA
Acc. to norm	VDE:0630,0750; IEC:1058-1,601-1; EN:61058,60601-1
Operating life AC	AC 250 V: 200000 /2A; 100000 /6A
Operating life DC	50000(10A/50V=)
Soldering time max.	3 sec.
Soldering temperature max.	350 °C
Defintion of flame class	UL 94 VO

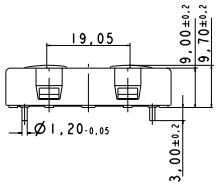
Circuit Diagram

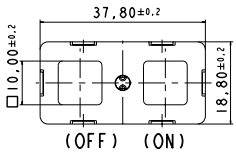
1 NO + 1 NC



2 NO/2 NC

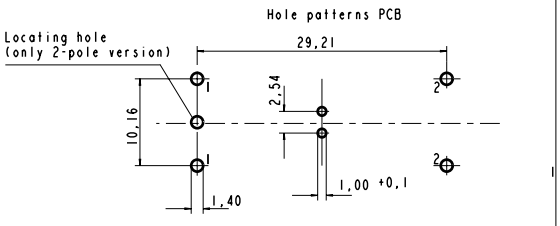
Dimensional Drawing





Definition "ON" "OFF" only valid for 2-pole version.

Hole Pattern



Locating hole only version 2 NO/2 NC

View on component side.

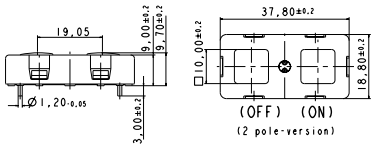
4

KN 19

Accessories KN 19 short-travel main switch

Description	Photo	Order no.	Page
Absorption rubber for KN19		5.30.729.009/0000	

KN 19



Pict.: 1 NC + 1 NO

Contact arrangement	Rated voltage max. AC	Approvals	Order no.
1 NC + 1 NO	250 V	ENEC, UL and CSA	**1.12.000.001/0000**
2 NC / 2 NO	250 V	ENEC, UL and CSA	**1.12.000.501/0000**

Technical data see page 4 - 74

Accessories:
Absorption rubber for KN19: 5.30.729.009/0000

For keycaps, refer to RK 90 system design.
Positive opening NC contacts to IEC 60 947-5-1.
1-LED spot-illumination (max. 3 mm) possible.

Stock items are marked by **bold printed** order numbers.