

RACON 12 i - Tactile switch, solder terminals for PCB, red**1.14.001.551/0000**

If the RK 90 system design is used, we recommend the 9 x 9 mm keycaps.

**General information**

Color of lens	red
Recommended key grid	15.24 x 15.24 mm
Key grid min.	12.5 x 12.5 mm

Dimensions

Length	11.35 mm
Width	11.35 mm
Overall height	9.7 mm

Mechanical design

Mounting	soldering
Terminals	THT
Contact system	snap-action contact
Contact arrangement	1 NO
Contact materials	Au
Illumination	fully illuminated 2 LED
LED color	red
LED type	standard 2 mm

Mechanical characteristics

Operating force	$3.3^{\pm 0.6}$ N
Switching travel	$0.34^{\pm 0.1}$ mm

Electrical characteristics

Rated voltage min.	0.02 V
Rated voltage max.	35 V
Rated current min.	0.01 mA
Rated current max.	100 mA
Rated power max. (ohmic load)	1 W
Contact resistance when new max.	100 mΩ
Dielectric strength AC min.	750 V
Insulation resistance	10^9 Ω

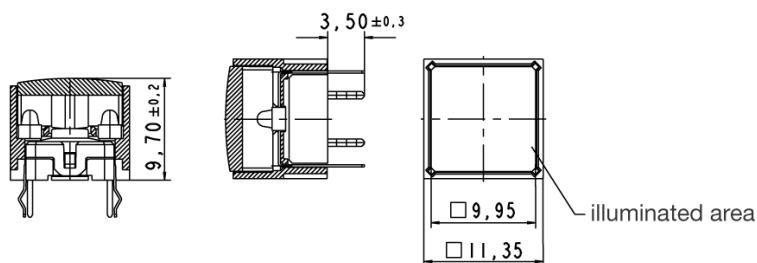
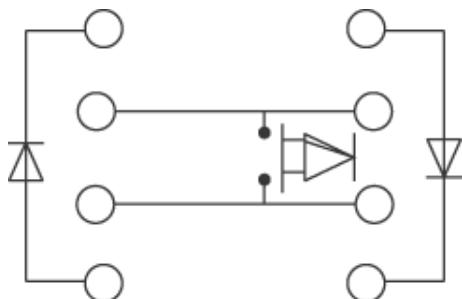
Electrical characteristics of LED

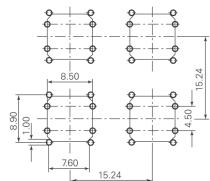
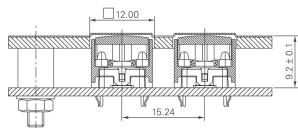
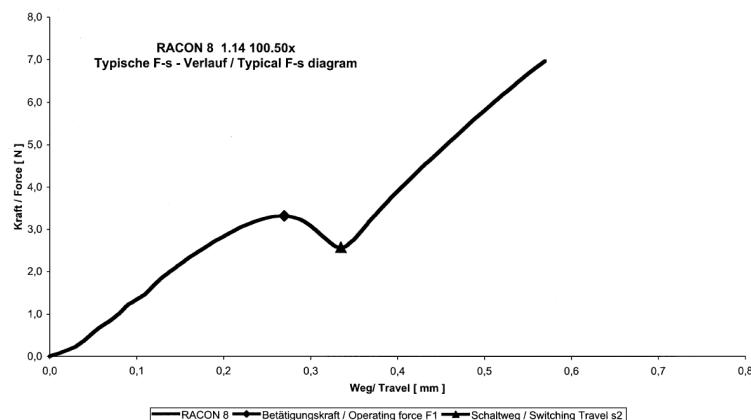
LED rated current max. I_F at 25 °C	red/green: 30, yellow: 50 mA
LED current reduction beginning with 50 degree C	red: 0.5 mA/degree C, yellow 0.8 mA/degree C

LED wavelength typ.	red 639, green 510-535, yellow 590
LED forward voltage U_F at 20 mA	red: 1.8 V/20 mA, yellow: 1.9 V/20 mA
LED breakdown voltage U_R at 25 °C	min. 5 V/0.1 mA

Other specifications

Ambient temp. operating min.	-40 °C
Ambient temp. operating max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
Operating life	1,000,000 cycle
Solderability / solder heat resistance	DIN EN 60068-2-20
Flammability of materials	UL 94 HB
Packing	tubes à 45 pieces
ROHS compliant	yes
REACH compliant	yes





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