

RACON 8, SMT, 4.8 ± 0.8 N, 1 NO

LBL NRFND

Description

Our top-quality RACON 8 tactile switches – in dimensions $8.4 \times 8.4 \text{ mm}$ – feature an unmistakeable click, high switching reliability, and a sealed contact system. That has made RACON the standard in many industries. Whether for automotive applications, systems with keycaps, or membrane keyboards, RACON impresses in the THT or SMT versions – for your application too.

RACON 8 tactile switches can be arranged individually, in rows or as key blocks. When used beneath membrane overlays, the RACON key switches should be combined with plungers. Suitable for the most important soldering techniques.

- > Soldering bath for THT versions
- > Reflow soldering for SMT versions
- > Vapor phase soldering for SMT versions
- > Manual soldering
- > Processing of the SMT designs with SMT automatic assembly machines
- > IMDS entry

CE

technical data

Color blue
Operating temperature, min. -40 °C

Operating temperature, max. 90 °C
Storage temperature, min. -50 °C
Storage temperature, max. 85 °C
illuminated No
Soldering Reflow

Solder heat resistance according

to standard

Packaging Blister
Packaging unit 1,000 pcs.
Net weight 0.5 g

Operating life 1,000,000 cycles B10 1,300,000 cycles

Degree of protection, front side, according to DIN EN 60529 IPx7 Degree of protection, rear side, according to DIN EN 60529 IPx7

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DIN EN 60068-2-58

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direct links

> RAFI eCatalog

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MSL Moisture Sensitivity Level Yes

Corrosive gas testing according to

standard

Minimum order quantity (MOQ) 1,000 pcs.

RoHS compliant Yes **REACH** compliant Yes

Component material Elastomer

Product code C2 Country of origin DE

> mounting diameters

Outside dimension, length 8.4 mm Outside dimension, width 8.4 mm

Installation height $4.95 \pm 0.1 \, \text{mm}$ Grid, min. 8.9 x 12.7 mm

> mechanical data

Terminal on the rear **SMT**

Actuation function momentary contact function

Operating force, max. 8 N

Operating force, min. $4.8 \pm 0.8 \,\mathrm{N}$

1 NO Contact function

Contact system Snap-action contact

SPST - Single Pole Single Throw

Contact material Gold Solderability

 $0.42^{\pm0.1}$ mm Switching travel

> electrical data

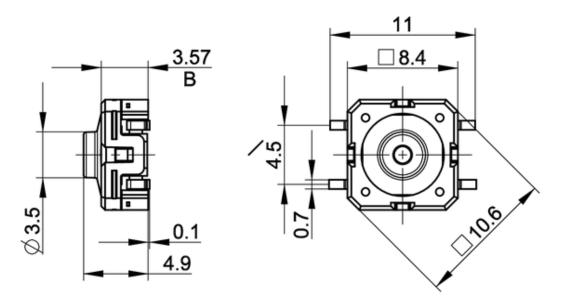
Rated voltage, min. 0.02 V 35 V Rated voltage, max.

Rated current, min. 0.00001 A Rated current, max. 0.1 A Rated power, max. 1 W

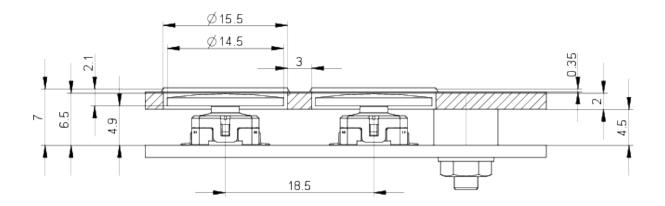


drawings

Dimensioned drawing

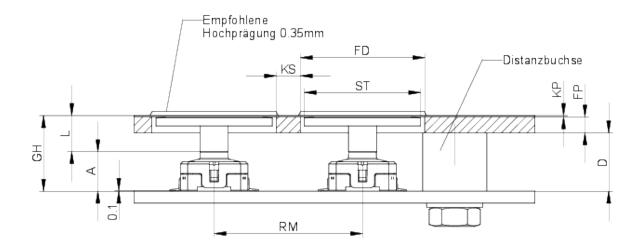


System drawing

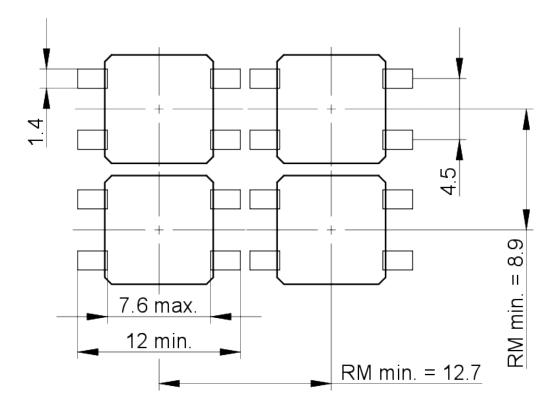




System drawing

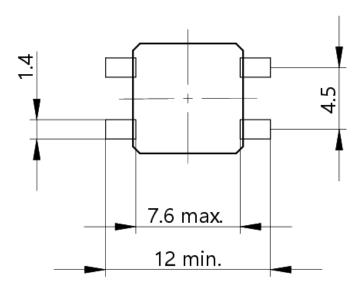


PCB drawing



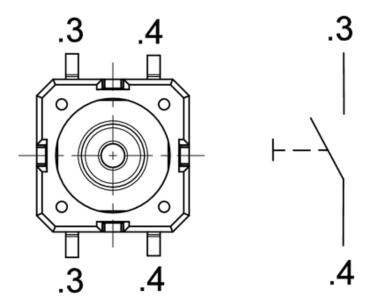


PCB drawing



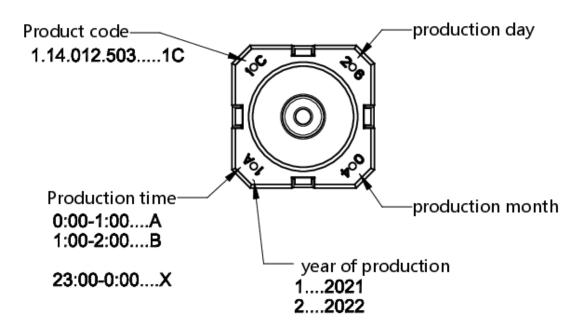
PCB-Pad component side

Schematic diagram

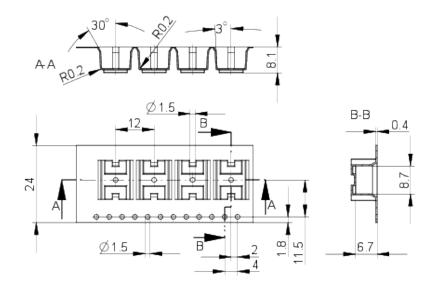




Product labeling drawing



Packaging drawing



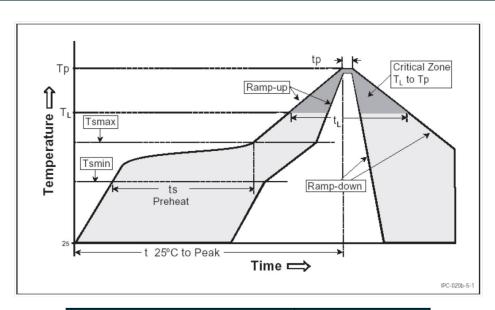


mounting

RAFI soldering profile for ROHS compliant reflow components



Publication date: October 7, 2021



Parameter	RAFI values
Gradient (T _L to T _P)	max. 3°C/s
Preheating zone Minimum temperature (T _{smin}) Maximum temperature (T _{smax}) Time (from min. to max.) (ts)	150°C 200°C 60 - 120 s
Gradient (T _{smax} to T _L)	max. 3°C / s
Time over melting temperature (T_L) time (t_L)	217°C 60 – 150 s
Peak temperature (T _P)	max. 260°C (+0°C)
Time within peak temperature – 5°C (tp)	20-40 s
Gradient ramp down	max. 6°C/s
Time difference from 25°C to peak temperature	max. 8 minutes

The reflow soldering profile is based on the definition of Jedec J-STD-020D.

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