

RACON 12 ST, THT inside, 2.5 ± 0.6 N, 1 NO



fields of application

- > Measurement-control-regulation
- > Mechanical and system engineering
- > Automotive
- > Electro-medical

special features

- > Gold contacts, reliable switching with low currents
- > Special tactile feedback
- > Different operating forces
- > Variable overall heights due to plunger
- > Terminal technology: SMT or THT
- > Traceability through product identification
- > sealable (tested media see Downloads)

$c \in$

description

Our top-quality RACON 12 tactile switches – in the dimensions 12 x 12 mm – feature an unmistakeable click, high switching reliability, a sealed contact system and castability. 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 12 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

technical data

>	general
•	90

Color blue
Operating temperature, min. -40 °C
Operating temperature, max. 125 °C

Storage temperature, min. -50 °C
Storage temperature, max. 90 °C
illuminated No
Soldering time for manual 5 sec

soldering, max.

direct links

> RAFI eCatalog



Soldering temperature for manual

soldering

Soldering temperature for wave

soldering

Soldering Manual / wave

Solder heat resistance according DIN EN 60068-2-20

to standard

Packaging Tube Packaging unit 45 pcs.

Operating life 1,000,000 cycles B10 1,300,000 cycles IP67 (IP6K7)

Degree of protection, front side,

according to ISO 20653

350 °C

260 °C

Degree of protection on rear side

IP67 (IP6K7)

acc. to ISO 20653

MSL Moisture Sensitivity Level Corrosive gas testing according to Yes

standard

MOQ order 450 pcs. RoHS compliant Yes **REACH** compliant Yes ΤE Product code

> mounting diameters

Outside dimension, length 12 mm Outside dimension, width 12 mm

Installation height $4.95 \pm 0.1 \, \text{mm}$ Grid, min. 12.50 x 15.24 mm

> mechanical data

Actuation function momentary contact function

Operating force, max.

Operating force, min. $2.5 \pm 0.6 N$ Switching travel $0.55 \pm 0.15 \, \text{mm}$

Bounce time at 10 mm/s <5 ms Contact function 1 NO

Contact system Snap-action contact

SPST - Single Pole Single Throw

Contact material Gold Solderability Yes

Terminal on the rear THT inward

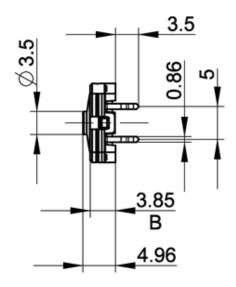
> electrical data

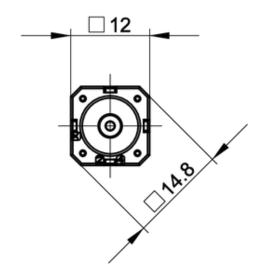
Rated voltage, min. 0.02 V 35 V Rated voltage, max. Rated current, min. 0.00001 A Rated current, max. 0.1 A Rated power, max. 1 W



drawings

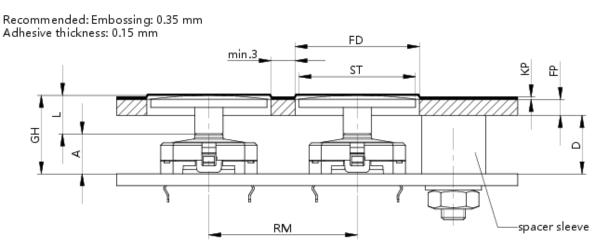
Dimensioned drawing





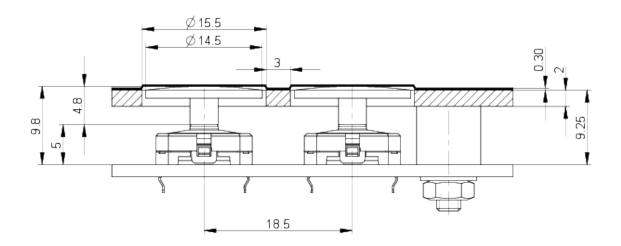
System drawing

THT connection internal

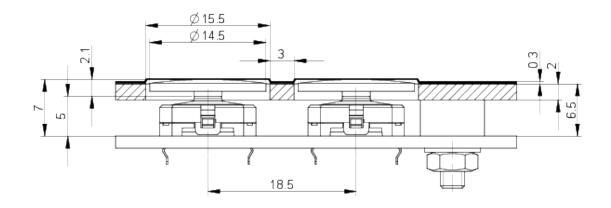




System drawing

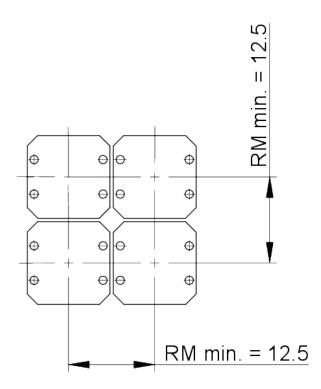


System drawing

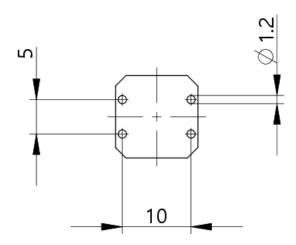




PCB drawing



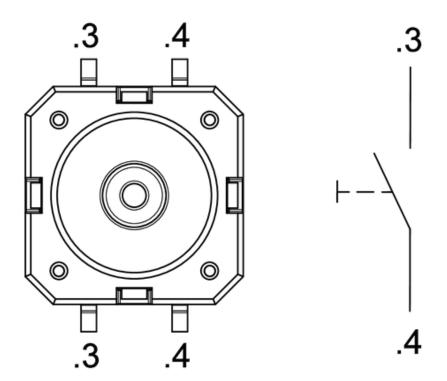
PCB drawing



PCB hole pattern component side



Schematic diagram



Product labeling drawing

