

RACON 12 S, THT inside, 3,6^{±0,7} 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)

CE

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		
Color	blue	direct links
Operating temperature, min.	-40 °C	> RAFI eCatalog
Storage temperature, min.	-50 °C	
Operating temperature, max.	90 °C	
Storage temperature, max.	90 °C	
illuminated	No	
Soldering time for manual soldering, max.	5 sec	
Soldering temperature for manual soldering	350 °C	

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 10, 2022 page: 1/6

RAFI GmbH & Co. KG



Soldering temperature for wave

soldering

Soldering Manual / wave
Solder heat resistance according DIN EN 60068-2-20

260 °C

to standard

Packaging Tube
Packaging unit 45 pcs.
net weight 1.2 g

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

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

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

MSL Moisture Sensitivity Level
1

Corrosive gas testing according to
Yes

standard

MOQ order 450 pcs.

RoHS compliant Yes

REACH compliant Yes

Component material Elastomer

Product code 1B

> mounting diameters

Installation height 4.95 $^{\pm0.1}$ mm Grid, min. 12,5 x 15,24 mm

Outside dimension, length 12 mm

Outside dimension, width 12 mm

Outside dimension, height 8.45^{±0.1} mm

> mechanical data

Actuation function momentary contact function

Operating force, max. 8 N Operating force, min. $3.6^{\pm0.7}$ N Switching travel $0.61^{\pm0.1}$ mm

Contact function 1 NO

Contact system Snap-action contact

Contact material Gold

Terminal on the rear THT inward

Solderability Yes

> electrical data

Rated voltage, min.

Rated voltage, max.

Rated current, min.

Rated current, max.

O.1 A

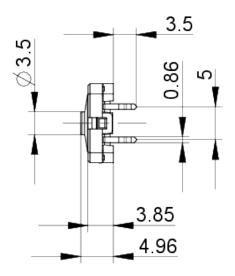
Rated power, max.

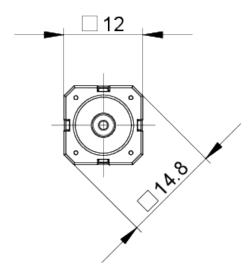
1 W



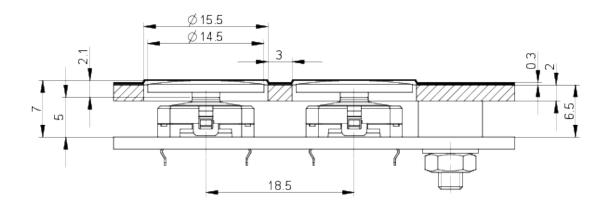
drawings

Dimensioned drawing



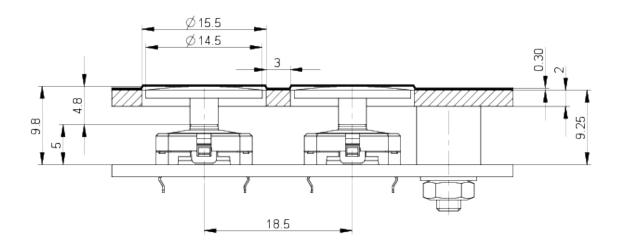


System drawing



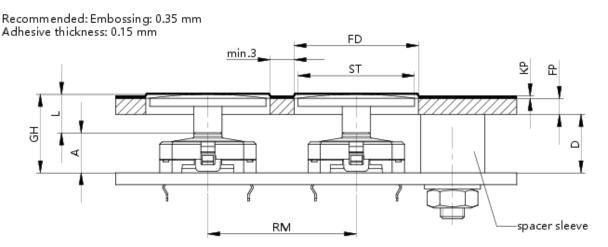


System drawing



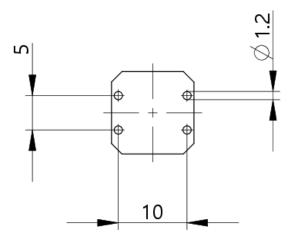
System drawing

THT connection internal



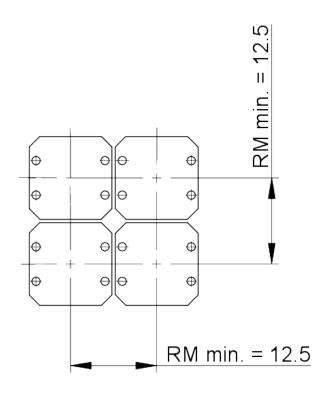


PCB drawing



PCB hole pattern component side

PCB drawing





Product labeling drawing

