

# RACON 8 ST, THT outside, 3.3 ± 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

# CE

## description

Our top-quality RACON 8 tactile switches – in dimensions 8.4 x 8.4 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

## technical data

general		
Color	blue	direct links
Operating temperature, min.	-40 °C	> RAFI eCatalog
Operating temperature, max.	125 °C	
Storage temperature, min.	-50 °C	
Storage temperature, max.	85 °C	
illuminated	No	
Soldering time for manual soldering, max.	5 sec	
Soldering temperature for manual	350 °C	
soldering		

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.

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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 60 pcs.
net weight 0.7 g

Operating life 1,000,000 cycles
B10 1,300,000 cycles
Degree of protection, front side, IP67 (IP6K7)

according to ISO 20653

Degree of protection on rear side IP67 (IP6K7)

acc. to ISO 20653

MSL Moisture Sensitivity Level 1
Corrosive gas testing according to Yes

standard

MOQ order 600 pcs.

RoHS compliant Yes

REACH compliant Yes

Product code TA

> mounting diameters

Outside dimension, length 8.4 mm

Outside dimension, width 8.4 mm

Installation height  $4.9 \pm 0.1$  mm

Grid. min.  $8.9 \times 12.7$  mm

> mechanical data

Actuation function momentary contact function

Operating force, max. 8 N

Operating force, min.  $3.3 \pm 0.6 \text{ N}$ Switching travel  $0.34 \pm 0.15 \text{ mm}$ 

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 outward

> electrical data

Rated voltage, min.

Rated voltage, max.

35 V

Rated current, min.

0.00001 A

Rated current, max.

0.1 A

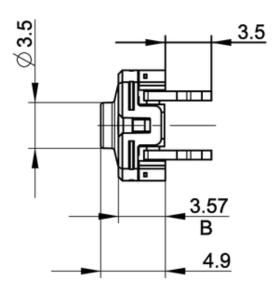
Rated power, max.

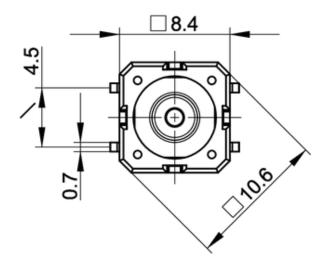
1 W



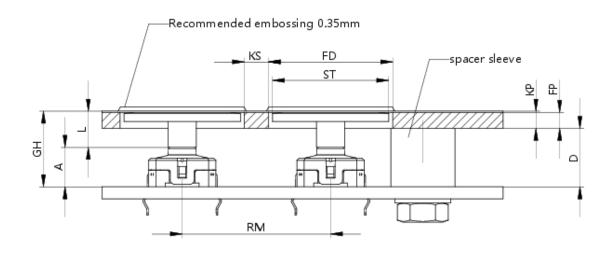
## drawings

## **Dimensioned drawing**



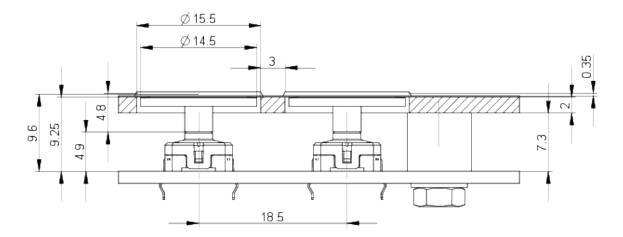


### System drawing

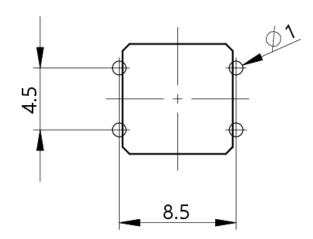




#### System drawing



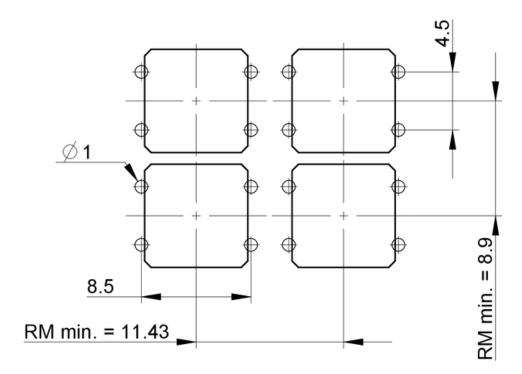
### **PCB** drawing



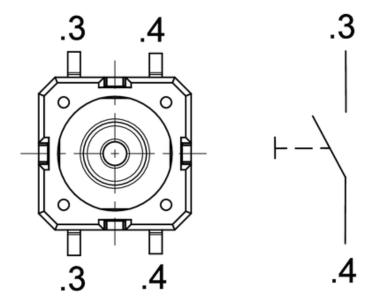
PCB hole pattern component side



#### **PCB** drawing



### Schematic diagram





#### **Product labeling drawing**

