

# RACON 8, THT inside, 3,3<sup>±0,6</sup> 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

| 90.10.0.                         |        |
|----------------------------------|--------|
| Color                            | blue   |
| Operating temperature, min.      | -40 °C |
| Storage temperature, min.        | -50 °C |
| Operating temperature, max.      | 90 °C  |
| Storage temperature, max.        | 85 °C  |
| illuminated                      | No     |
| Soldering time for manual        | 5 sec  |
| soldering, max.                  |        |
| Soldering temperature for manual | 350 °C |
| soldering                        |        |
| Soldering temperature for wave   | 260 °C |
| soldering                        |        |

direct links

> RAFI eCatalog

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

to standard

Packaging Tube
Packaging unit 60 pcs.
net weight 0.7 g

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

MSL Moisture Sensitivity Level 1
Corrosive gas testing according to Yes

standard

MOQ order 60 pcs.

RoHS compliant Yes

REACH compliant Yes

Component material Elastomer

Product code B1

> mounting diameters

Installation height  $4,90^{\pm0,1}$  mm Grid, min.  $8,9 \times 12,7$  mm

Outside dimension, length 8.4 mm

Outside dimension, width 8.4 mm

Outside dimension, height 8.4±0,1 mm

> mechanical data

Actuation function momentary contact function

Operating force, max. 8 N Operating force, min.  $3.3^{\pm0.6}$  N Switching travel  $0.34^{\pm0.1}$  mm

Contact function 1 NO

Contact system Snap-action contact

Contact material Gold

Terminal on the rear THT inward

Solderability Yes

> electrical data

Rated power, max.

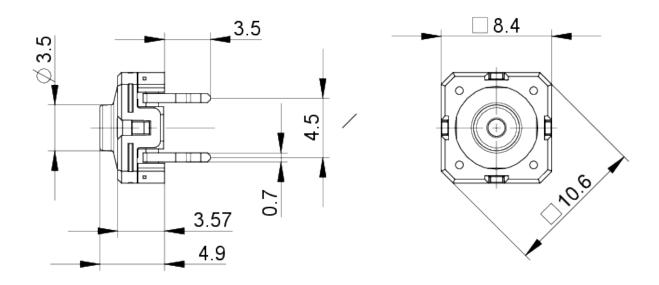
Rated voltage, min. 0.02 V
Rated voltage, max. 35 V
Rated current, min. 0.00001 A
Rated current, max. 0.1 A

1 W

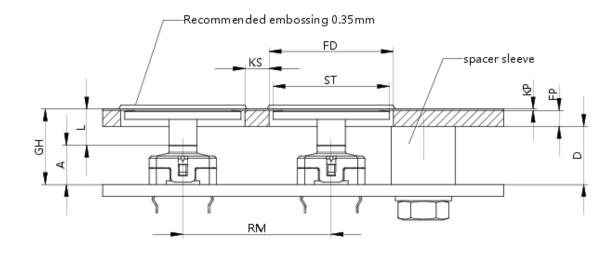


## drawings

## **Dimensioned drawing**

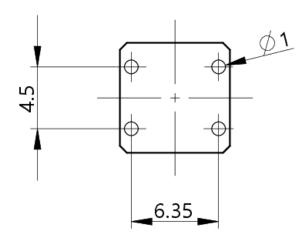


## System drawing



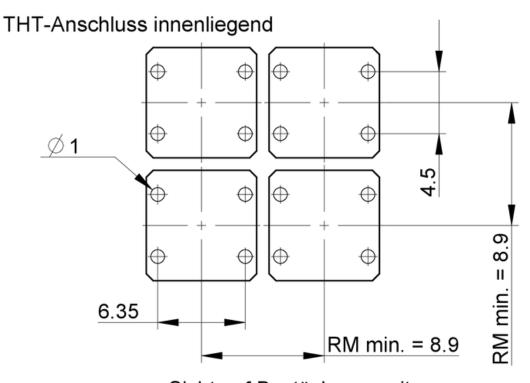


#### **PCB** drawing



PCB hole pattern component side

## **PCB** drawing



Sicht auf Bestückungsseite



#### **Product labeling drawing**

