## 1.14.001.916/0000



# RACON 12, SMT, 6,8<sup>±1,6</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

 $\epsilon$ 

### description

Our top-quality RACON 12 tactile switches – in the dimensions 12 x 12 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 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

eral		
lluminated	No	direct links
Color	blue	> RAFI eCatalog
Operating temperature, min.	-40 °C	
Operating temperature, max.	90 °C	
Storage temperature, min.	-50 °C	
Storage temperature, max.	90 °C	
Soldering	Reflow	
Corrosive gas testing according to	Yes	
standard		
Packaging	Blister	

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: May 18, 2020 page: 1/3

RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi.de, info@rafi.de

## 1.14.001.916/0000



Packaging unit 750 pcs. net weight 0.8 g

Operating life 1,000,000 Cycles

RoHS compliant Yes
REACH compliant Yes

Solder heat resistance according

to standard

DIN EN 60068-2-58

SAP MOQ order 750

> mounting diameters

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

Outside dimension, length 12 mm

Outside dimension, width 12 mm

Outside dimension, height 4.95<sup>±0.1</sup> mm

> mechanical data

Actuation function momentary contact function

Operating force, max. 100 N 
Operating force, min.  $6.8^{\pm 1.6}$  N 
Switching travel  $0.7^{\pm 0.1}$  mm

Contact function 1 NO

Contact system Snap-action contact

Contact material Gold
Terminal on the rear SMT
Lötbarkeit Yes

> electrical data

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

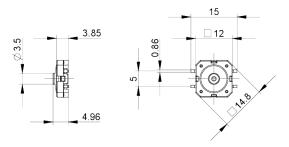
Rated current, max. 0.1 A
Rated power, max. 1 W

# 1.14.001.916/0000



# drawings

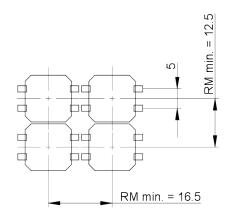
#### **Dimensioned drawing**



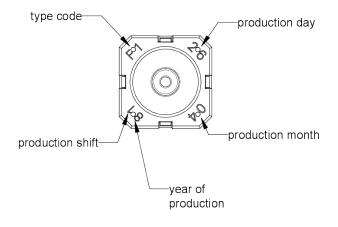
# System drawing



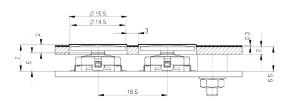
#### **PCB** drawing



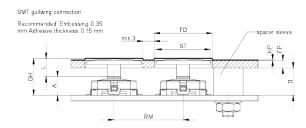
## **Product labeling drawing**



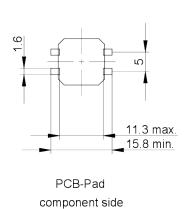
#### System drawing



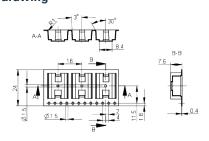
#### System drawing



#### **PCB** drawing



# **Packaging drawing**



RAFI GmbH & Co. KG