

# RACON 12 S, SMT, 3,6<sup>±0,7</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

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	Reflow	
Solder heat resistance according	DIN EN 60068-2-58	
to standard		

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 19, 2021 **page**: 1/3

#### technical data sheet

## 1.14.012.503/0000



	Packaging	Blister
	Packaging unit	750 pcs.
	Operating life	1,000,000 cycles
	B10	1,300,000 cycles
	Degree of protection, front side,	IP54
	according to DIN EN 60529	IPx7
	Degree of protection, rear side,	IP54
	according to DIN EN 60529	IPx7
	Corrosive gas testing according to	Yes
	standard	
	MOQ order	750 pcs.
	RoHS compliant	Yes
	REACH compliant	Yes
	Component material	Elastomer
>	mounting diameters	
	Installation height	4.95 <sup>±0.1</sup> mm
	Grid, min.	12,5 x 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.	8 N
	Operating force, min.	3,6 <sup>±0,7</sup> N
	Switching travel	0,61 <sup>±0,1</sup> mm
	Contact function	1 NO
	Contact system	Snap-action contact
	Contact material	Gold
	Terminal on the rear	SMT
	Solderability	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

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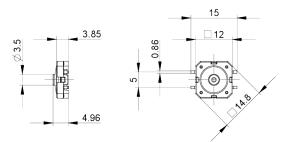
#### technical data sheet

## 1.14.012.503/0000

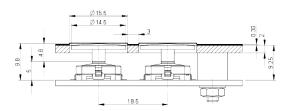


## drawings

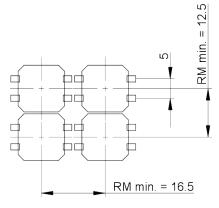
#### **Dimensioned drawing**



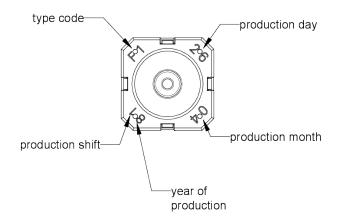
#### System drawing



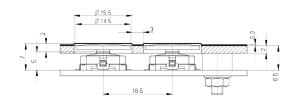
#### PCB drawing



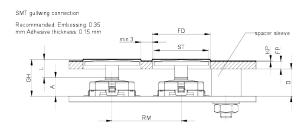
#### **Product labeling drawing**



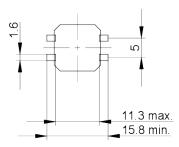
### System drawing



#### System drawing

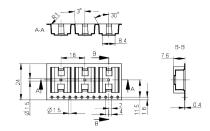


### PCB drawing



PCB-Pad component side

### Packaging drawing



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