# technical data sheet 1.14.100.803/0000



# RACON 8, SMT, 6,0<sup>±1,0</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

## description

CE

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		
illuminated	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.	85 °C	
Soldering	Reflow	
Corrosive gas testing according to standard	Yes	
Packaging	Blister	
Packaging unit	1,000 pcs.	

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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	Operating life	50,000 Cycles
	RoHS compliant	Yes
	REACH compliant	Yes
	Solder heat resistance according	DIN EN 60068-2-58
	to standard	
	SAP MOQ order	1,000
>	mounting diameters	
	Installation height	4,90 <sup>±0,1</sup> mm
	Grid, min.	8,9 x 12,7 mm
	Outside dimension, length	8.4 mm
	Outside dimension, width	8.4 mm
	Outside dimension, height	4,90 <sup>±0,1</sup> mm
>	mechanical data	
	Actuation function	momentary contact function
	Operating force, max.	100 N
	Operating force, min.	6,0 <sup>±1,0</sup> N
	Switching travel	0,47 <sup>±0,1</sup> 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

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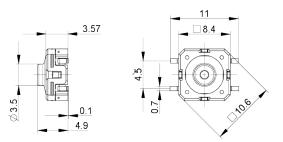
### technical data sheet

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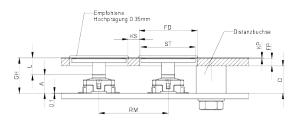


### drawings

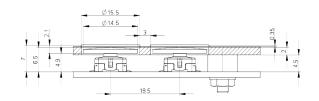
### **Dimensioned drawing**



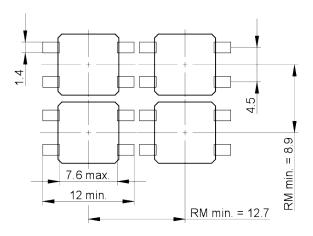
### System drawing



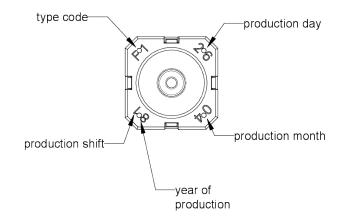
### System drawing



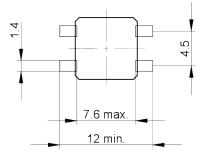
### PCB drawing



### **Product labeling drawing**

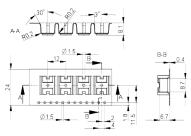


### PCB drawing



PCB-Pad component side

### Packaging drawing



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