technical data sheet 1.14.100.801/0000



RACON 8, THT outside, 6,0^{±1,0} 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			
	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 time for manual soldering, max.	5 sec		
	Soldering temperature for manual soldering	350 °C		

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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	Soldering temperature for wave	260 °C			
	soldering				
	Soldering	Manual / wave			
	Corrosive gas testing according to	Yes			
	standard				
	Packaging	Tube			
	Packaging unit	60 pcs.			
	net weight	0.7 g			
	Operating life	50,000 Cycles			
	RoHS compliant	Yes			
	REACH compliant	Yes			
	Solder heat resistance according	DIN EN 60068-2-20			
	to standard				
	SAP MOQ order	1,020			
> mounting diameters					
	Installation height	4,90 ^{±0,1} mm			
	Grid, min.	8,9 x 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.	100 N			
	Operating force, min.	6,0 ^{±1,0} N			
	Switching travel	0,47 ^{±0,1} mm			
	Contact function	1 NO			
	Contact system	Snap-action contact			
	Contact material	Gold			
	Terminal on the rear	THT outward			
	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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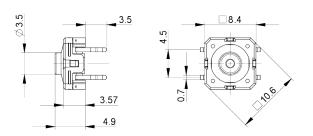
technical data sheet

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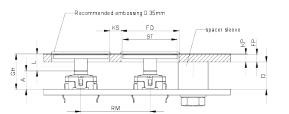


drawings

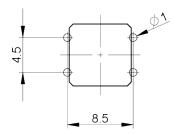
Dimensioned drawing



System drawing

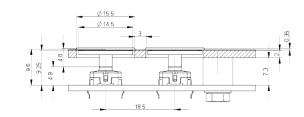


PCB drawing



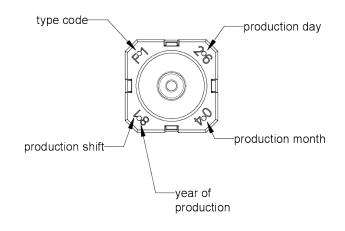
PCB hole pattern component side

System drawing



PCB drawing





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