

RACON 12 S vertical, THT, 3,6 ± 0,7 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)



description

Our top-quality RACON 12 tactile switches – in the dimensions 12 x 12 mm – feature an unmistakable 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

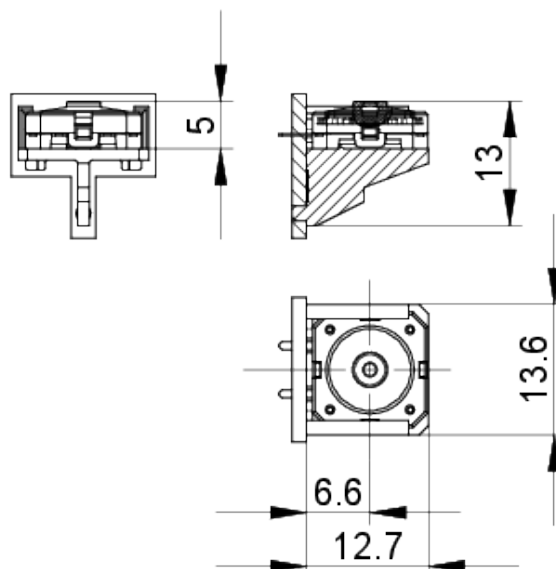
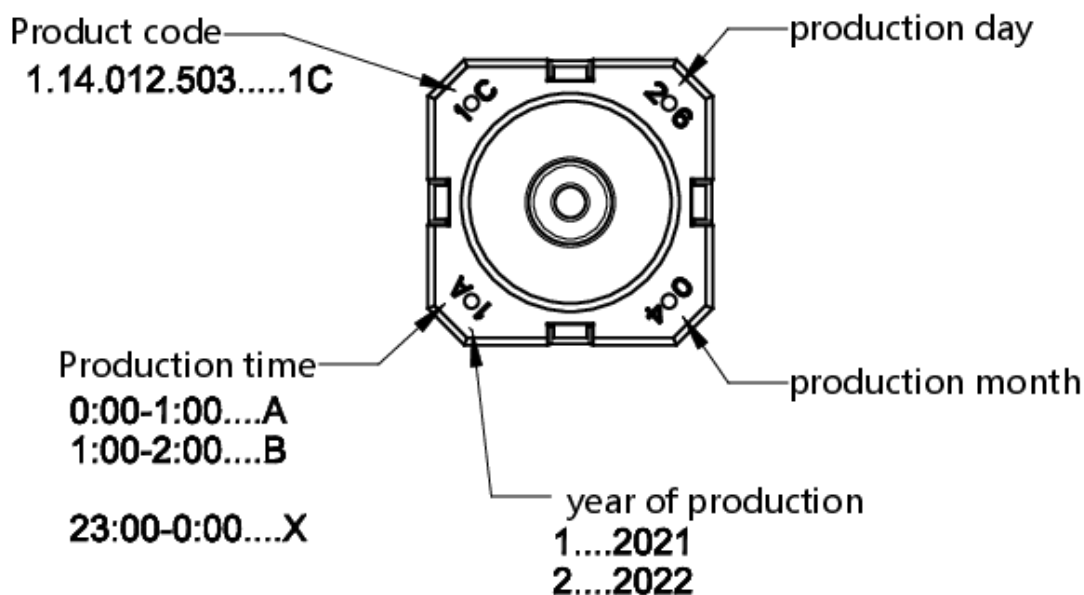
➤ general

Color	blue
Operating temperature, min.	-40 °C
Storage temperature, min.	-50 °C
Operating temperature, max.	80 °C
Storage temperature, max.	90 °C
illuminated	No
Soldering time for manual soldering, max.	5 sec

direct links

- [RAFI eCatalog](#)

Soldering temperature for manual soldering	350 °C
Soldering temperature for wave soldering	260 °C
Soldering	Manual / wave
Solder heat resistance according to standard	DIN EN 60068-2-20
Packaging unit	100 pcs.
net weight	1.5 g
Operating life	1,000,000 cycles
B10	1,300,000 cycles
Degree of protection, front side, according to DIN EN 60529	IP54 IPx7
Degree of protection, rear side, according to DIN EN 60529	IP54 IPx7
MSL Moisture Sensitivity Level	1
Corrosive gas testing according to standard	Yes
MOQ order	300 pcs.
RoHS compliant	Yes
REACH compliant	Yes
Component material	Elastomer
Product code	1F
> mounting diameters	
Grid, min.	12,5 x 15,24 mm
Outside dimension, length	14.6 mm
Outside dimension, width	13.6 mm
Outside dimension, height	15.55 mm
> mechanical data	
Actuation function	momentary contact function
Operating force, max.	8 N
Operating force, min.	3,6 ± 0,7 N
Switching travel	0.61 ± 0.1 mm
Contact function	1 NO
Contact system	Snap-action contact
Contact material	Gold
Terminal on the rear	THT
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

drawings**Dimensioned drawing****Product labeling drawing**

mounting

Medium Robust Electronics



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RACON 12 S

Valid for all variants RACON 12 S, 1.14.012.5XX-9XX

Approved potting compounds

- WEVO-CHEMIE GmbH WEVOPUR 7210 FL/WEVONAT 507
WEVOPUR PD4431 FL/WEVONAT 300
- STOCKMAIER URETHANES GmbH & Co.KG Stobicast® L768.16 Polyol/Isocyanat

Important note

Maximum potting height B must not be exceeded.

Approved circuit board protection

- Lackwerke Peters GmbH & Co.KG ELPEGUARD® SL 1307

Important note

If the tactile switch is completely painted, the paint may peel off the elastomer of the tactile switch during the first few actuations. Press the tactile switch only after the paint has hardened.

We recommend leaving out the elastomer area when painting to prevent detachment.

- TIEFCO Coating Company 3M™ Novec™ 1700

Important note

After coating, the contact resistance can increase. After repeated actuation, the contact resistance drops again under 100 mΩ.

General remark:

The potting, varnish and nano medium must be used in accordance with the manufacturer's technical data sheet. Actuation of the tactile switch only after the potting compound, varnish and nano medium has hardened.

Other potting compounds and processes for printed circuit board protection on request.

The information in this sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which may 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. Subject to change and errors excepted. Details about delivery times and availability are noncommittal and have no legal force.

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