

RACON 12 S vertical, THT, 9.7 ± 2.5 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

For vertical use, a support, for example by using a RAFI vertical adapter, is necessary.

technical data

>	genei	ral
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Color blue
Operating temperature, min. -40 °C
Operating temperature, max. 90 °C

Storage temperature, min. -50 °C
Storage temperature, max. 90 °C
illuminated No
Soldering time for manual 5 sec

soldering, max.

direct links

> RAFI eCatalog



Soldering temperature for manual

soldering

Soldering temperature for wave

soldering

Soldering Manual / wave

350 °C

260 °C

DIN EN 60068-2-20

Solder heat resistance according

to standard

Packaging unit 45 pcs. net weight 1.5 g

Operating life 200,000 cycles B10 260,000 cycles

Degree of protection, front side,
according to DIN EN 60529

Degree of protection, rear side,
according to DIN EN 60529

MSL Moisture Sensitivity Level
Corrosive gas testing according to

IP54
IPx7

MSL Moisture Sensitivity Level
1

Corrosive gas testing according to

standard

MOQ order 450 pcs.

RoHS compliant Yes

REACH compliant Yes

Component material Elastomer

Product code LZ

> mounting diameters

Outside dimension, length 15.45 mm
Outside dimension, width 12 mm
Outside dimension, height 5.05 mm
Installation height 5.05 mm

Grid, min. 12.50 x 15.24 mm

> mechanical data

Actuation function momentary contact function

Operating force, min. $9.7 \pm 2.5 \text{ N}$ Switching travel $0.73 \pm 0.12 \text{ mm}$

Contact function 1 NO

Contact system Snap-action contact

SPST - Single Pole Single Throw

Contact material Gold
Solderability Yes
Terminal on the rear THT

> electrical data

Rated voltage, min.

Rated voltage, max.

Rated current, min.

Rated current, max.

O.1 A

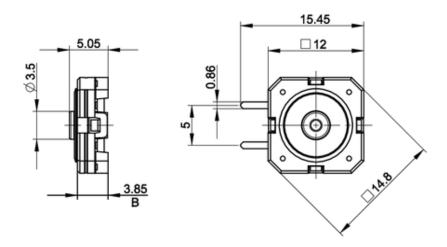
Rated power, max.

1 W

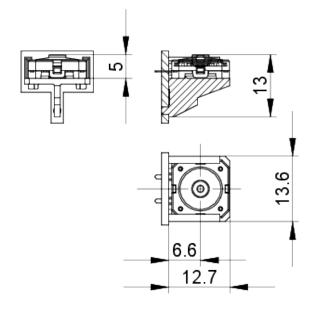


drawings

Dimensioned drawing

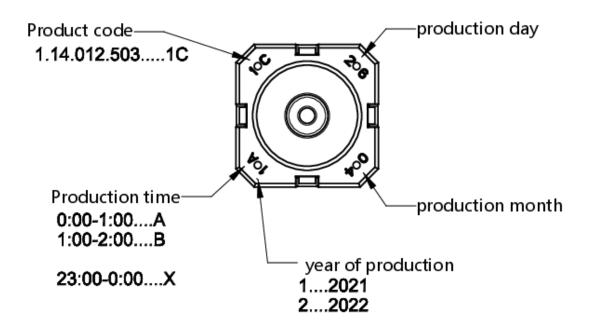


Dimensioned drawing





Product labeling drawing





mounting

Media 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 m Ω .

General remark:

The potting, varnish and nano medias 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 medias has hardened.

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

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