

# RACON 12 i, THT, $3.3 \pm 0.6$ N, bezel orange, 1 NO



#### fields of application

- > Measurement-control-regulation
- > Mechanical and system engineering
- > Automotive
- > Electro-medical

#### special features

- > Gold contacts, reliable switching with low currents
- > Full illumination through 2 LEDs
- > Overall height 9.7 mm
- > Terminal technology: THT

# CE

### description

Flat data entry keyboards with RACON 12 i-elements should be constructed in a 15.24 mm grid. With this grid, strips of glue remain between the individual keys on the front panel. The overlay, which we recommend embossing above the key switches, can be glued onto these strips of glue. When using our RK 90 system design, we recommend 9 x 9 mm keycaps.

### technical data

>	general

Bezel color orange Luminous element color orange Operating temperature, min. -40 °C Operating temperature, max. 80 °C -50 °C Storage temperature, min. Storage temperature, max. 85 °C illuminated Yes Soldering time for manual 5 sec soldering, max. Soldering temperature for manual 350 °C soldering

Soldering temperature for wave

soldering

Manual / wave Soldering Solder heat resistance according DIN EN 60068-2-20

to standard

Packaging unit 45 pcs. net weight 1.6 g

Operating life 1,000,000 cycles 1,300,000 cycles

MSL Moisture Sensitivity Level

MOQ order 270 pcs. RoHS compliant Yes **REACH** compliant Yes

### direct links

> RAFI eCatalog

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260 °C

RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com info.headquarters@rafi-group.com



Component material Elastomer

> mounting diameters

Outside dimension, length 11.35 mm
Outside dimension, width 11.35 mm
Outside dimension, height 13.2 mm
Installation height 9.7 mm

Grid, min. 12.5 x 12.5 mm

> mechanical data

Actuation function momentary contact function

Operating force, min.  $3.3 \pm 0.6 \text{ N}$ Switching travel  $0.34^{\pm 0.1} \text{ mm}$ 

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

Operating voltage of the luminous 1.9 V

element, max.

Rated voltage, min. 0.02 V
Rated voltage, max. 35 V
Dielectric strength 750 V
Operating current of the luminous 50 mA

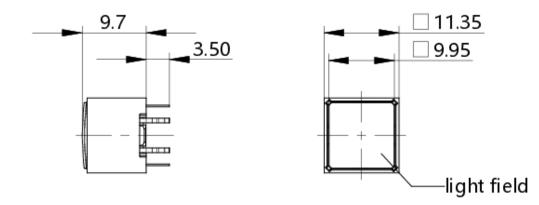
element, max.

Rated current, min. 0.00001 A
Rated current, max. 0.1 A
Rated power, max. 1 W

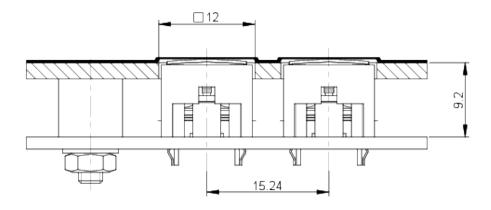


### drawings

### **Dimensioned drawing**

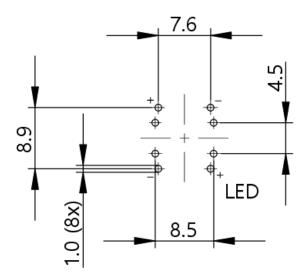


### System drawing



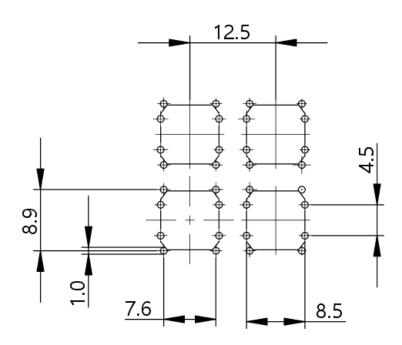


#### **PCB** drawing



View on component side

### **PCB** drawing



View on component side



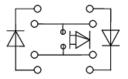
#### Schematic diagram





Circuit symbol according to IEC 60 617 Form X (double break)

### Circuit diagram



Circuit symbol according to IEC 60 617 Form X (double break)

