

# RACON 12 i, THT, 3,3<sup>±0,6</sup> 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

# $\epsilon$

## 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	direct links
	Luminous element color	orange	> RAFI eCatalog
	Operating temperature, min.	-40 °C	
	Storage temperature, min.	-50 °C	
	Operating temperature, max.	80 °C	
	Storage temperature, max.	85 °C	
	illuminated	Yes	
	Soldering time for manual soldering, max.	5 sec	
	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	45 pcs.	
	Operating life	1,000,000 cycles	
	B10	1,300,000 cycles	
	MSL Moisture Sensitivity Level	1	
	MOQ order	270 pcs.	
	RoHS compliant	Yes	
	REACH compliant	Yes	

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Component material Elastomer

> mounting diameters

Installation height 9.7 mm

Grid, min. 12,5 x 12,5 mm

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

> mechanical data

Actuation function momentary contact function

Operating force, min. 3,3 $^{\pm0,6}$  N Switching travel 0,34 $^{\pm0,1}$  mm

Contact function 1 NO

Contact system Snap-action contact

Contact material Gold
Terminal on the rear THT
Solderability Yes

> 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.

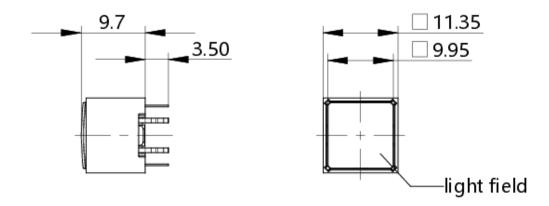
Rated current, min. 0.00001 A

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

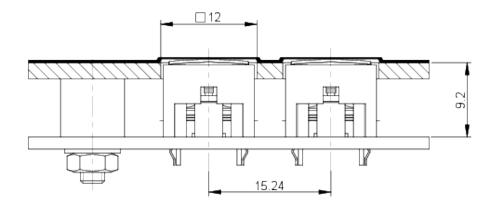


## drawings

## **Dimensioned drawing**

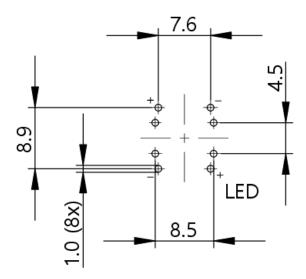


## System drawing



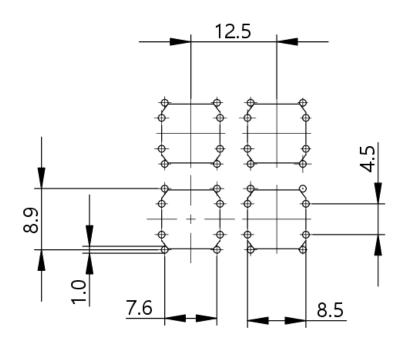


#### **PCB** drawing



View on component side

## **PCB** drawing



View on component side

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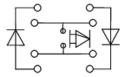
#### Schematic diagram



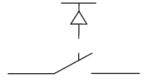


Circuit symbol according to IEC 60 617 Form X (double break)

## Circuit diagram



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



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