

## RACON 12 i, THT, 3.3 ± 0.6 N, lamp yellow, bezel yellow, 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	yellow	direct links
	Luminous element color	yellow	> RAFI eCatalog
	Operating temperature, min.	-40 °C	
	Operating temperature, max.	80 °C	
	Storage temperature, min.	-50 °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.	
	net weight	1.6 g	
	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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## 1.14.001.553/0000



	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 ± 0.6 N	
	Switching travel	0,34 <sup>±0,1</sup> mm	
	Contact function	1 NO	
	Contact system	Snap-action contact	
		SPST - Single Pole Single Throw	
	Contact material	Gold	
	Solderability	Yes	
	Terminal on the rear	ТНТ	
>	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	

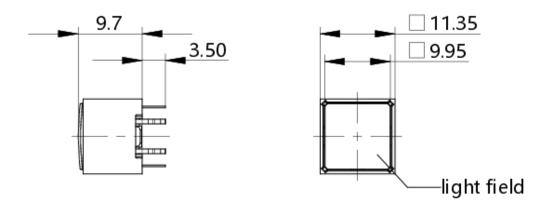
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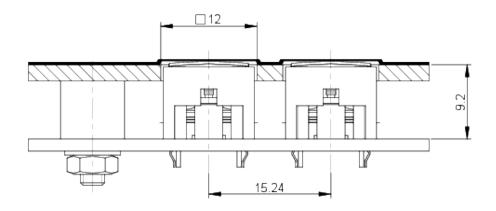


## drawings

## **Dimensioned drawing**



## System drawing



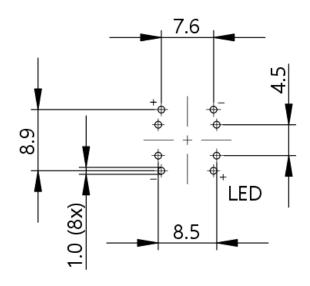
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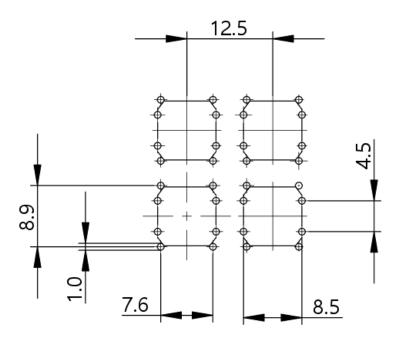


## **PCB drawing**



View on component side

## **PCB drawing**



View on component side

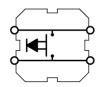
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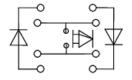
Schematic diagram



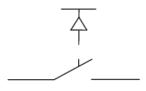


## Circuit symbol according to IEC 60 617 Form X (double break)

**Circuit diagram** 



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



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