

## 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

> ger	neral		
Bez	zel color	yellow	direct links
Lur	ninous element color	yellow	> RAFI eCatalog
Ope	erating temperature, min.	-40 °C	
Ope	erating temperature, max.	80 °C	
Sto	rage temperature, min.	-50 °C	
Sto	rage temperature, max.	85 °C	
illur	minated	Yes	
	dering time for manual dering, max.	5 sec	
	dering temperature for manual dering	350 °C	
	dering temperature for wave dering	260 °C	
Sol	dering	Manual / wave	
	der heat resistance according standard	DIN EN 60068-2-20	
Pac	kaging unit	45 pcs.	
net	weight	1.6 g	
Ope	erating life	1,000,000 cycles	
B10	0	1,300,000 cycles	
MS	L Moisture Sensitivity Level	1	
MC	DQ order	270 pcs.	
Roł	HS compliant	Yes	
REA	ACH 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

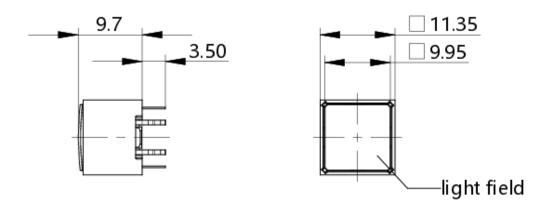
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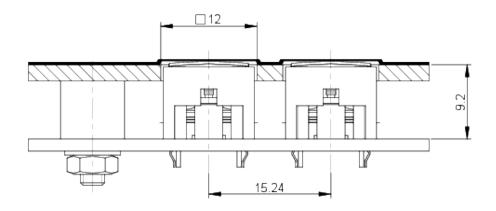


## drawings

## **Dimensioned drawing**



## System drawing



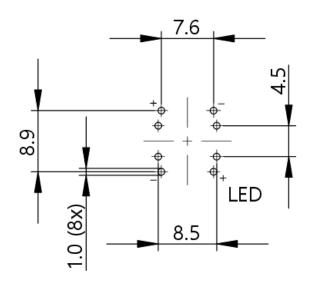
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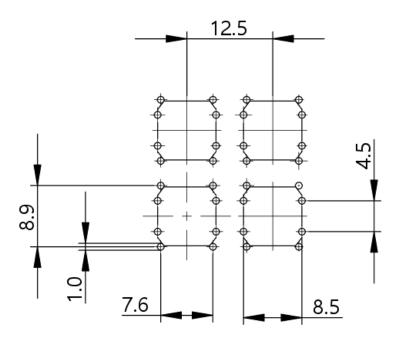


## **PCB drawing**



View on component side

## **PCB drawing**



View on component side

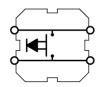
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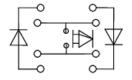
Schematic diagram



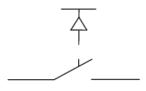


## Circuit symbol according to IEC 60 617 Form X (double break)

**Circuit diagram** 



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



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