

RACON 12 i, THT, 3,3 \pm 0,6 N, bezel green, 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



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

illuminated	Yes
Bezel color	green
Luminous element color	green
Operating temperature, min.	-40 °C
Operating temperature, max.	80 °C
Storage temperature, min.	-50 °C
Storage temperature, max.	85 °C
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
Packaging unit	45 pcs.
net weight	1.6 g
Operating life	1,000,000 Cycles
RoHS compliant	Yes
REACH compliant	Yes
Solder heat resistance according to standard	DIN EN 60068-2-20
MOQ order	45

direct links

- > [RAFI eCatalog](#)

> mounting diameters

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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

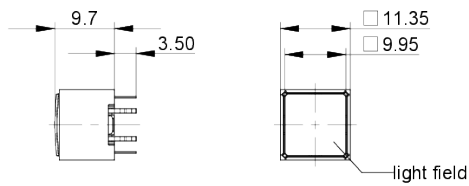
Actuation function	momentary contact function
Operating force, max.	100 N
Operating force, min.	3,3±0,6 N
Switching travel	0,34±0,1 mm
Contact function	1 NO
Contact system	Snap-action contact
Contact material	Gold
Terminal on the rear	THT
Lötbarkeit	Yes

> electrical data

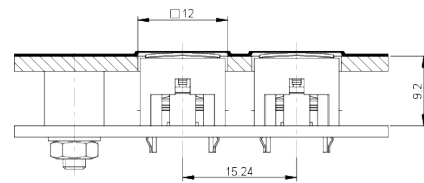
Operating voltage of the luminous element, max.	2.1 V
Operating current of the luminous element, max.	30 mA
Rated voltage, min.	0.02 V
Rated voltage, max.	35 V
Rated current, min.	0.00001 A
Rated current, max.	0.1 A
Rated power, max.	1 W
Dielectric strength	750 V

drawings

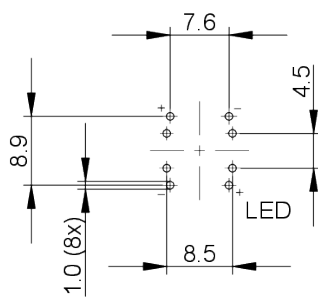
Dimensioned drawing



System drawing

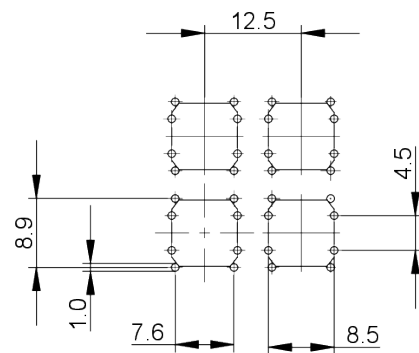


PCB drawing



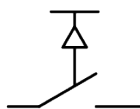
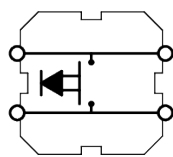
View on component side

PCB drawing

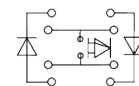


View on component side

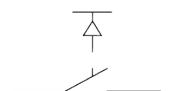
Schematic diagram



Circuit diagram



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



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

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