

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

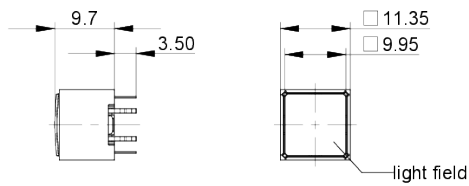
| | |
|-----------------------|----------------------------|
| Actuation function | momentary contact function |
| Operating force, max. | 100 N |
| Operating force, min. | 3,3±0,6 N |
| Switching travel | 0,34±0,1 mm |
| Contact function | 1 NO |
| Contact system | Snap-action contact |
| Contact material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

> electrical data

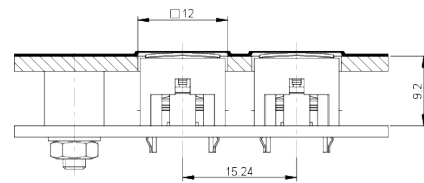
| | |
|---|-----------|
| Operating voltage of the luminous element, max. | 2.1 V |
| Operating current of the luminous element, max. | 30 mA |
| Rated voltage, min. | 0.02 V |
| Rated voltage, max. | 35 V |
| Rated current, min. | 0.00001 A |
| Rated current, max. | 0.1 A |
| Rated power, max. | 1 W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

drawings

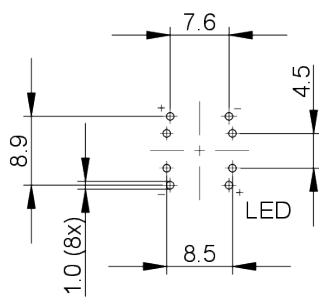
Dimensioned drawing



System drawing

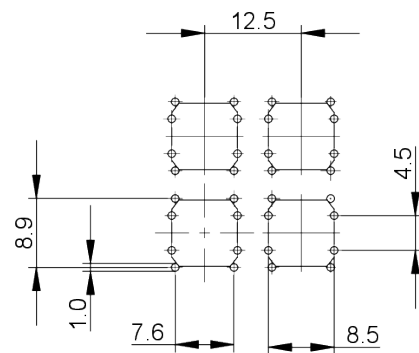


PCB drawing



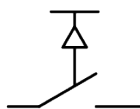
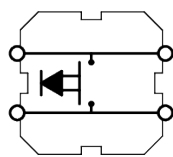
View on component side

PCB drawing

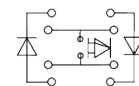


View on component side

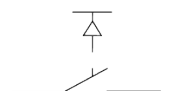
Schematic diagram



Circuit diagram



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



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