

## 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



### 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            |
| Luminous element color                       | yellow            |
| 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               |

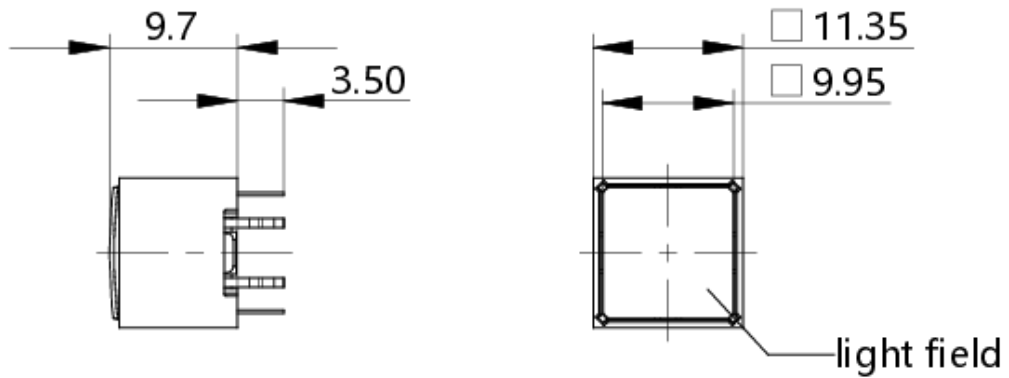
#### direct links

- › [RAFI eCatalog](#)

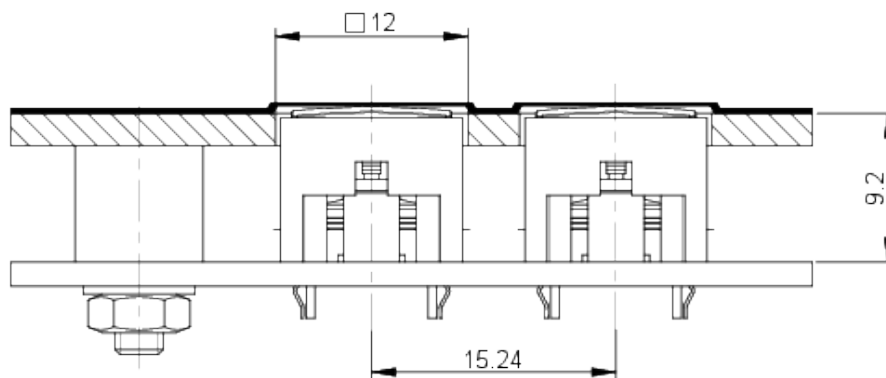
|   |  |
|---|--|
| Component material                              | Elastomer  |
| <b>&gt; mounting diameters</b>                  |  |
| Outside dimension, length                       | 11.35 mm   |
| Outside dimension, width                        | 11.35 mm   |
| Outside dimension, height                       | 13.2 mm  |
| Installation height                             | 9.7 mm   |
| Grid, min.                                      | 12.5 x 12.5 mm   |
| <b>&gt; mechanical data</b>                     |  |
| Actuation function                              | momentary contact function                             |
| Operating force, min.                           | 3.3 ± 0.6 N  |
| Switching travel                                | 0,34±0,1 mm  |
| Contact function                                | 1 NO   |
| Contact system                                  | Snap-action contact<br>SPST - Single Pole Single Throw |
| Contact material                                | Gold   |
| Solderability                                   | Yes  |
| Terminal on the rear                            | THT  |
| <b>&gt; electrical data</b>                     |  |
| Operating voltage of the luminous element, max. | 1.9 V  |
| Rated voltage, min.                             | 0.02 V   |
| Rated voltage, max.                             | 35 V   |
| Dielectric strength                             | 750 V  |
| Operating current of the luminous element, max. | 50 mA  |
| Rated current, min.                             | 0.00001 A  |
| Rated current, max.                             | 0.1 A  |
| Rated power, max.                               | 1 W  |

**drawings**

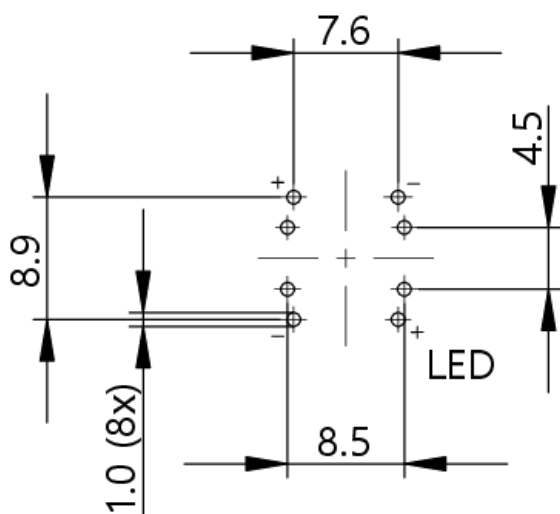
**Dimensioned drawing**



**System drawing**

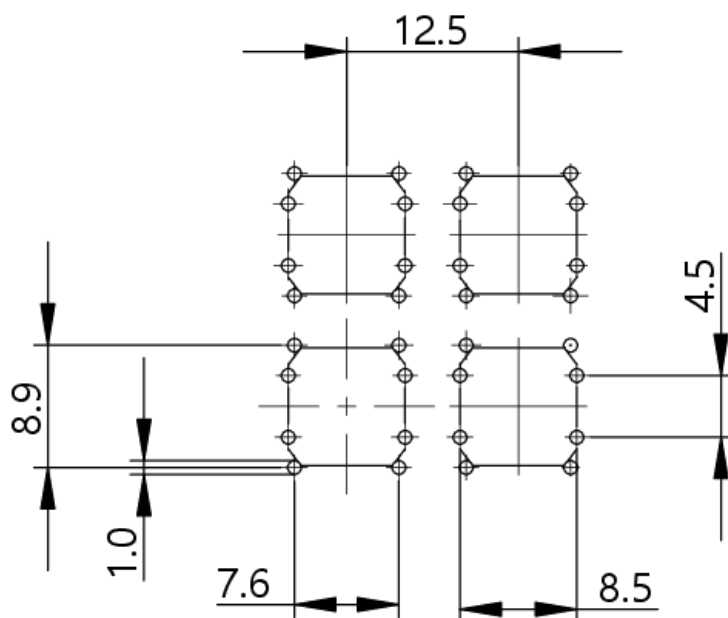


PCB drawing



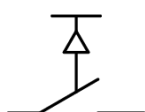
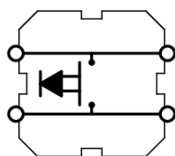
View on component side

PCB drawing



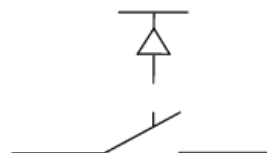
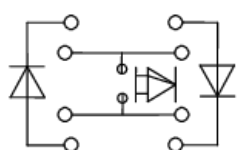
View on component side

**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)