RACON 12 S, THT inside, 9.7 ± 2.5 N, 1 NO

LBL_NRFND



Description

Our top-quality RACON 12 tactile switches – in the dimensions 12 x 12 mm – feature an unmistakeable click, high switching reliability, a sealed contact system and castability. That has made RACON the standard in many industries. Whether for automotive applications, systems with keycaps, or membrane keyboards, RACON impresses in the THT or SMT versions – for your application too.

RACON 12 tactile switches can be arranged individually, in rows or as key blocks. When used beneath membrane overlays, the RACON key switches should be combined with plungers. Suitable for the most important soldering techniques.

Soldering bath for THT versions
Reflow soldering for SMT versions
Vapor phase soldering for SMT versions
Manual soldering
Processing of the SMT designs with SMT automatic assembly machines
IMDS entry

CE

technical data

general

Color	blue
Operating temperature, min.	-40 °C
Operating temperature, max.	90 °C
Storage temperature, min.	-50 °C
Storage temperature, max.	90 °C
illuminated	No
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	Tube
Packaging unit	45 pcs.
Net weight	0.1 g

direct links

RAFI eCatalog

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Operating life	65,000 cycles
B10	84,500 cycles
Degree of protection, front side, according to DIN EN 60529	IP54 IPx7
Degree of protection, rear side, according to DIN EN 60529	IP54 IPx7
MSL Moisture Sensitivity Level	1
Corrosive gas testing according to standard	Yes
Minimum order quantity (MOQ)	450 pcs.
RoHS compliant	Yes
REACH compliant	Yes
Component material	Elastomer
Product code	IZ
Country of origin	DE

mounting diameters

Outside dimension, length	12 mm
Outside dimension, width	12 mm
Installation height	5.05 ± 0.1 mm
Grid, min.	12.50 x 15.24 mm

mechanical data

Terminal on the rear	THT inward
Actuation function	momentary contact function
Operating force, max.	18 N
Operating force, min.	9.7 ± 2.5 N
Contact function	1 NO
Contact system	Snap-action contact SPST - Single Pole Single Throw
Contact material	Gold
Solderability	Yes
Switching travel	0.73 ± 0.12 mm

electrical data

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

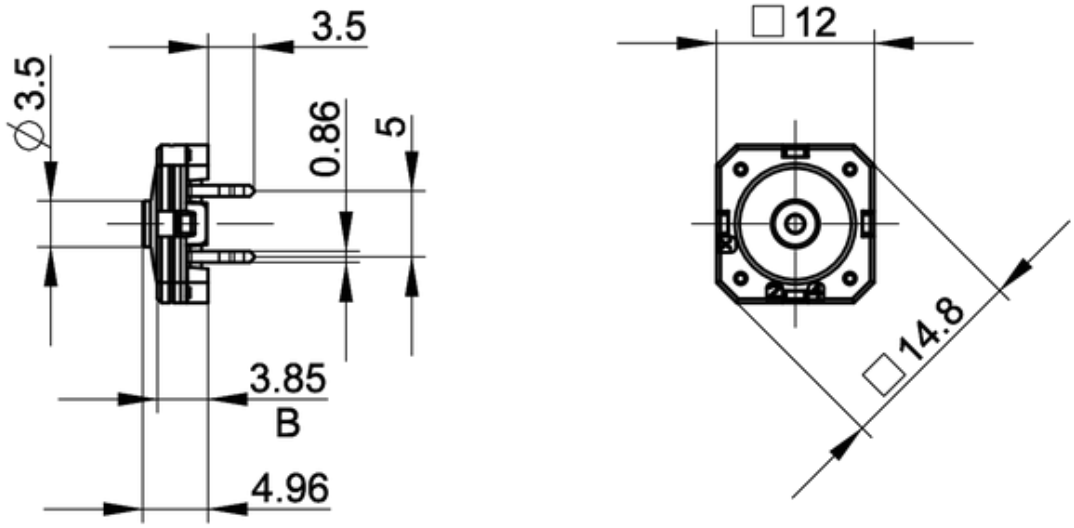
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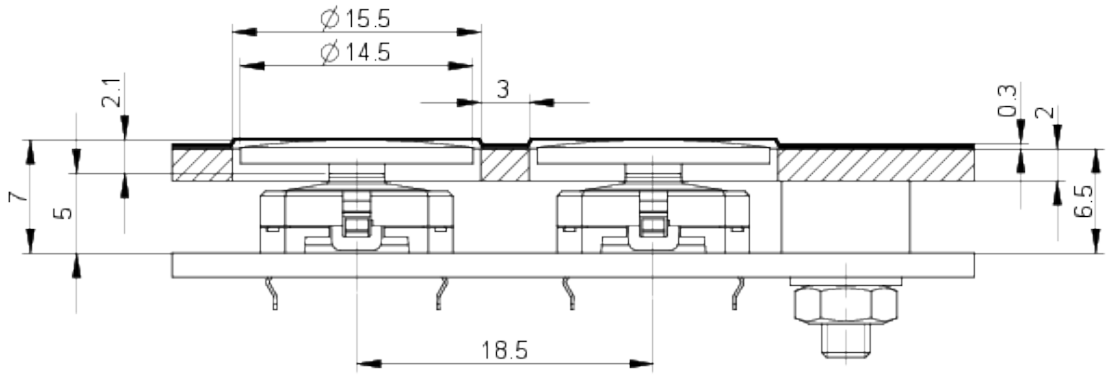
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drawings

Dimensioned drawing



System drawing

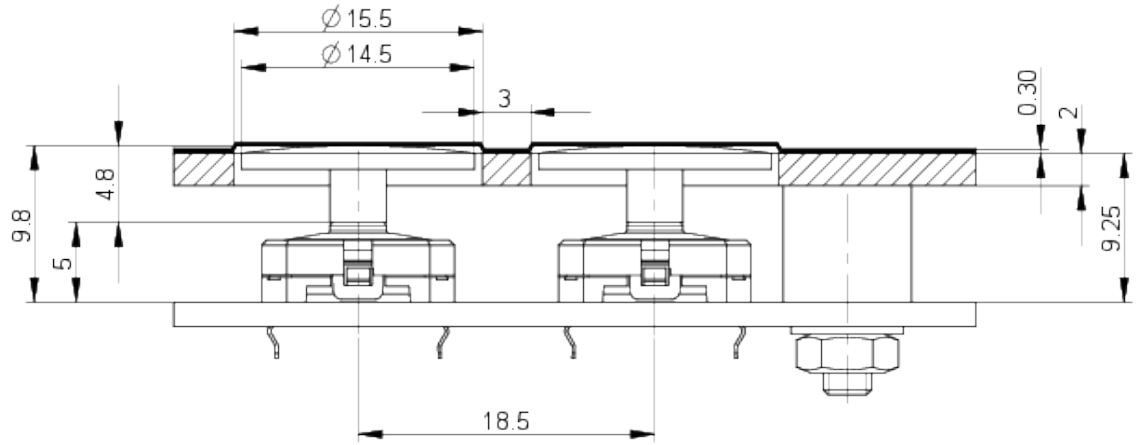


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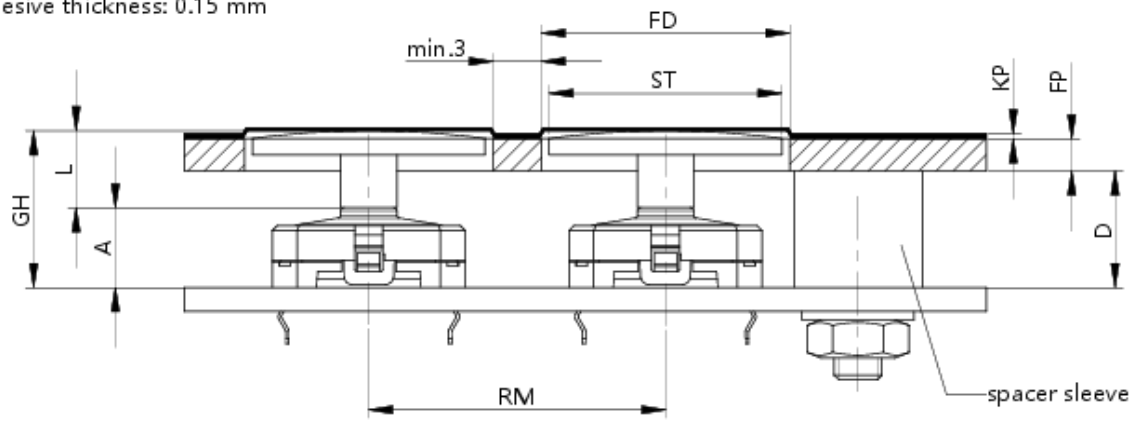
System drawing



System drawing

THT connection internal

Recommended: Embossing: 0.35 mm
Adhesive thickness: 0.15 mm

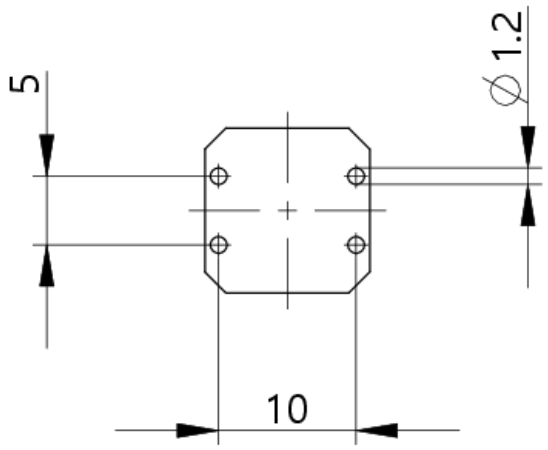


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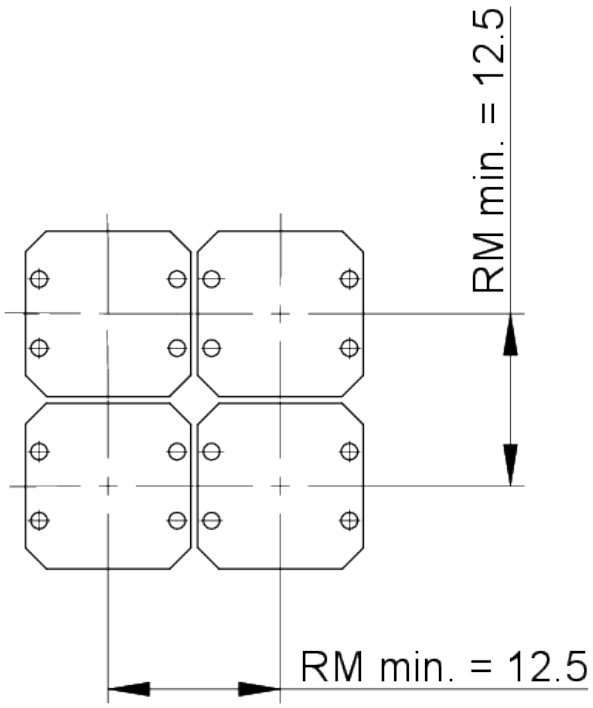
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PCB drawing



PCB hole pattern
component side

PCB drawing

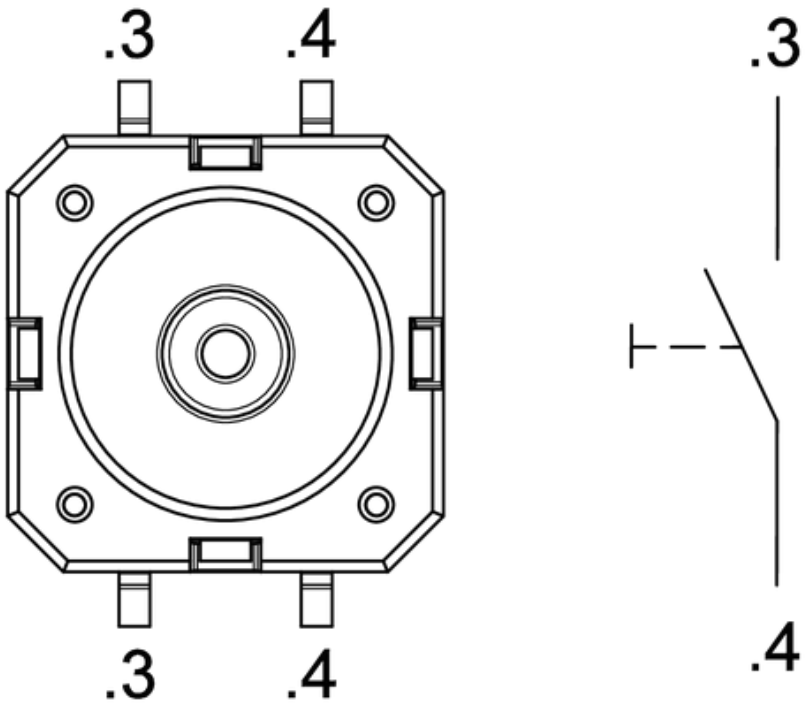


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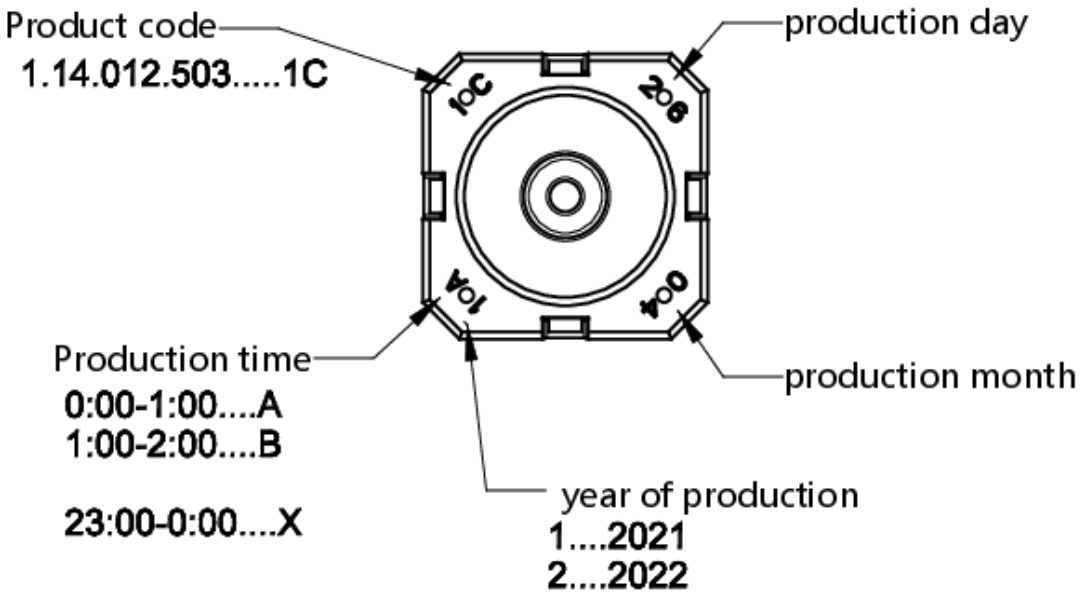
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Schematic diagram



Product labeling drawing



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