MICON 5 S, THT standard, 7 ± 1.4 N, 1 NO

Description

MICON 5 tactile switches offer extreme switching reliability, with a very small space requirement. They can be arranged individually, in rows or as key blocks. For use beneath overlays, we recommend combining the MICON 5 tactile switches with plungers. Here are the properties at a glance:

- 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 design with SMT automatic assembly machines
- IMDS entry

MICON 5, THT standard, suitable for keycaps from the accessories range Packaging: in rails with 102 pieces each

CE

technical data

general

Operating temperature, min.	-40 °C
Operating temperature, max.	125 °C
Storage temperature, min.	-40 °C
Storage temperature, max.	90 °C
illuminated	No
Soldering	Manual / wave
Solder heat resistance according to standard	DIN EN 60068-2-20
Packaging	Tube
Packaging unit	102 pcs.
Operating life	250,000 cycles
B10	325,000 cycles
Degree of protection, front side, according to ISO 20653	IP67 (IP6K7)
Degree of protection on rear side acc. to ISO 20653	IP67 (IP6K7)
MSL Moisture Sensitivity Level	1
Shock resistance according to standard IEC 60068-2-27	100 g at 6 ms amplitude semi-sinusoidal
Oscillation restistance according to standard IEC 60068-2-6	5 g at 10...500 Hz
Minimum order quantity (MOQ)	510 pcs.
RoHS compliant	Yes

direct links

- RAFI eCatalog

RAFI GmbH & Co. KG

Ravensburger Str. 128-134
88276 Berg / Ravensburg
Germany
www.rafi-group.com,
info.headquarters@rafi-group.com

REACH compliant	Yes
Product code	PS
Country of origin	DE

mounting diameters

Outside dimension, length	6.4 ± 0.1 mm
Outside dimension, width	5.1 ± 0.1 mm
Installation height	3.85 ± 0.1 mm
Grid, min.	6 x 7.8 mm

mechanical data

Terminal on the rear	THT
Actuation function	momentary contact function
Operating force, max.	12 N
Operating force, min.	7 ± 1.4 N
Contact function	1 NO
Contact system	Snap-action contact SPST - Single Pole Single Throw
Contact material	Gold
Solderability	Yes
Bounce time at 10 mm/s	<5 ms
Switching travel	1.1 ± 0.15 mm

electrical data

Rated voltage, min.	0.02 V
Rated voltage, max.	35 V
Dielectric strength	250 V
Rated current, min.	0.00001 A
Rated current, max.	0.1 A
Rated power, max.	1 W

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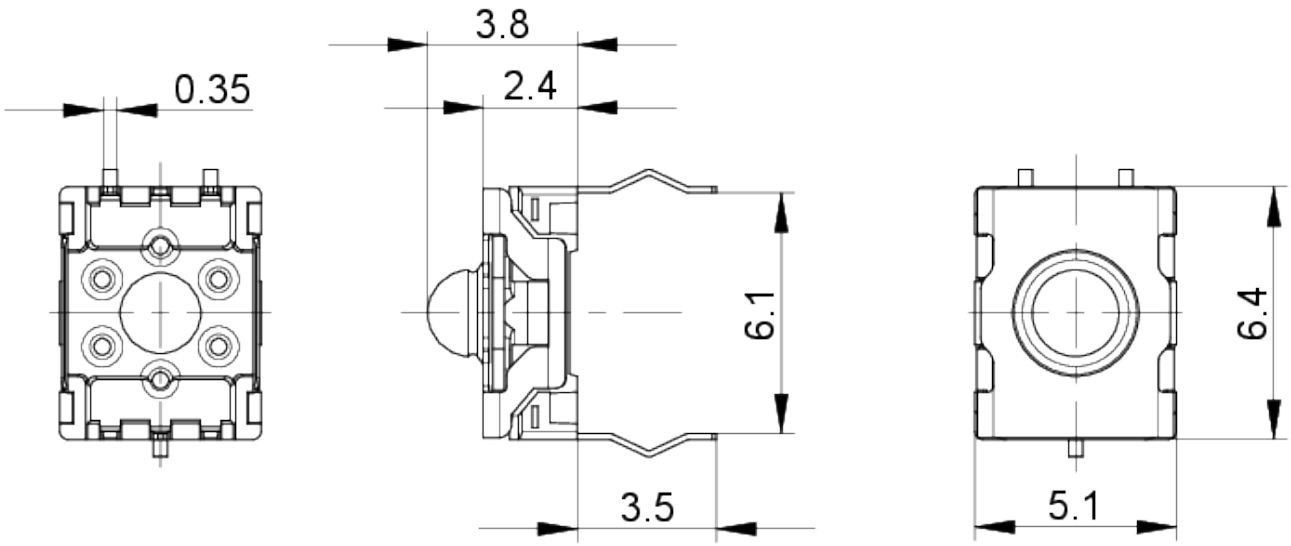
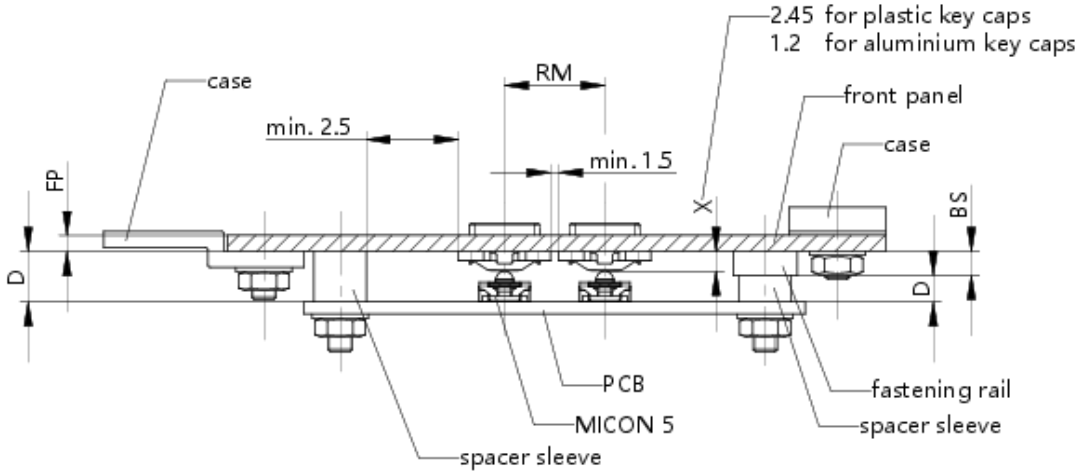
drawings

Dimensioned drawing



System drawing



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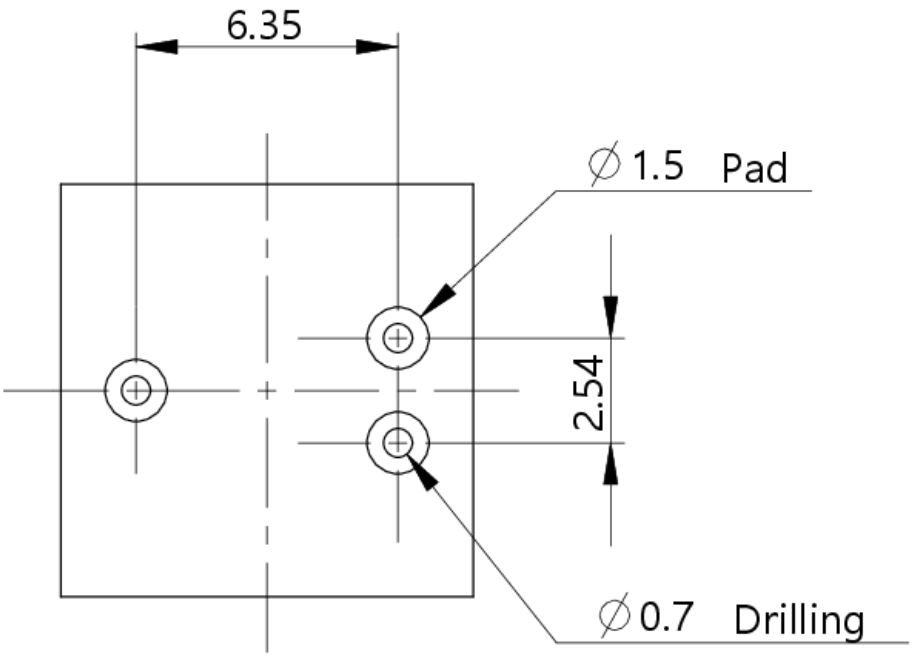
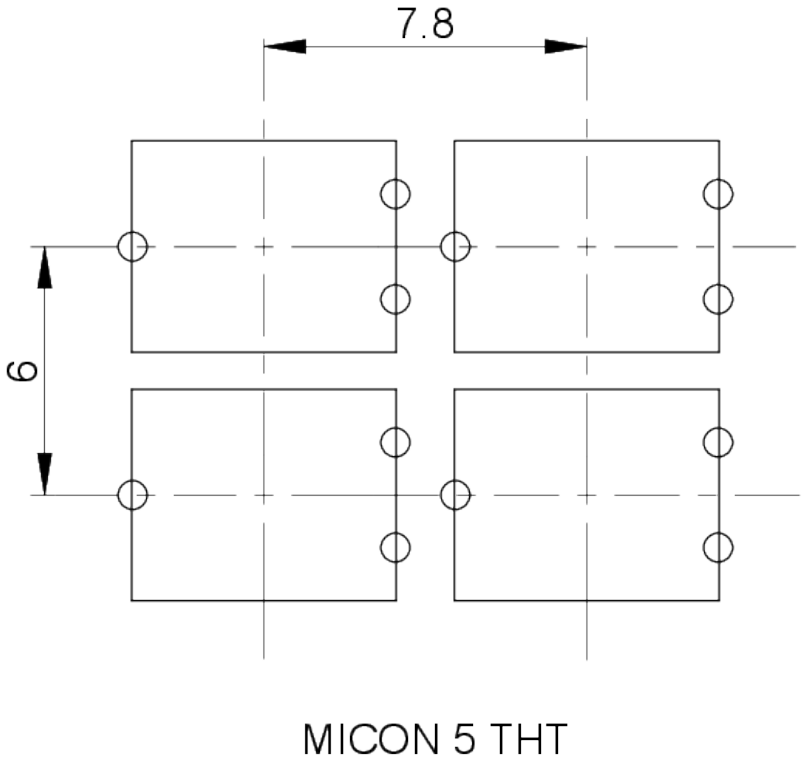
PCB drawing



PCB drawing



MICON 5 THT

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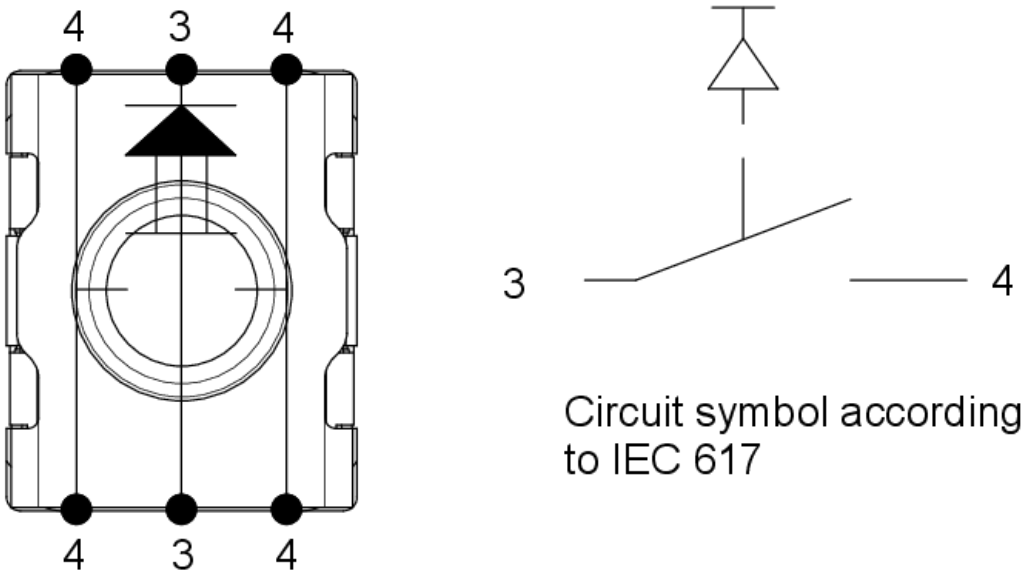
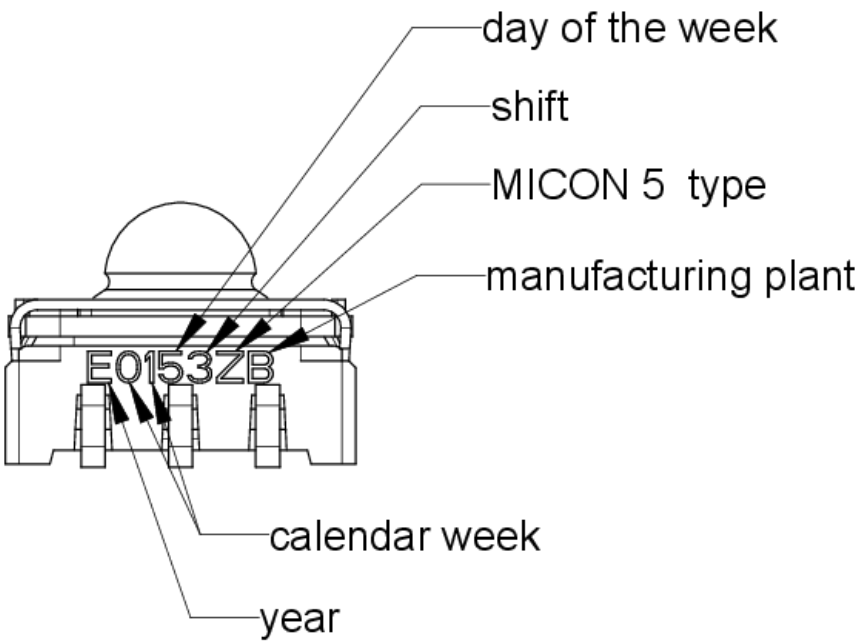
Schematic diagram



Product labeling drawing



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mounting

Media Robust Electronics

Publication date: February 13, 2025

MICON 5 S, SL and SAFETY

Valid for all variants MICON 5 S 1.14.005., MICON 5 SL 1.14.105. and MICON 5 SAFETY 1.14.205.

Recommended potting compounds

WEVO-CHEMIE GmbH	**WEVOPUR 7210 FL/WEVONAT 507**

Important note
Maximum potting height B must not be exceeded.

Recommended circuit board protection

Lackwerke Peters GmbH & Co.KG	**combination of high-viscosity (HT-T) and low-viscosity coating from the ELPEGUARD® SL 1307 family**
Lackwerke Peters GmbH & Co.KG	**ELPEGUARD® SL 1800**

Important note
The conformal coating of our tactile switches must be tested in the final application. Coating that enters the tactile switch does not harden directly, so that any resulting malfunction can only be detected later.
If the tactile switch is completely coated, the coating may peel off the elastomer of the tactile switch during the first few actuations. Press the tactile switch only after the coating has hardened.
We recommend leaving out the elastomer area when coating to prevent detachment.

General remark
The suitability and use of the recommended media for potting, conformal coating and nano-coating must be qualified and approved in the final application.
The potting, conformal coating and nano-coating must be used in accordance with the manufacturer's technical data sheet.
Actuation of the tactile switch only after the potting compound, conformal coating and nano coating has complete hardened.

Other potting compounds and processes for printed circuit board protection on request.

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