

MICON 5 SAFETY, SMT standard, 2.9 ± 0.6 N, 1 NC + 1 NO

COMING SOON



fields of application

- > Measurement-control-regulation
- > Mechanical and system engineering
- > Automotive
- > Electro-medical

special features

- > Gold contacts, reliable switching with low currents
- > Special tactile feedback
- > High packing density due to small form factor (5.1 x 6.4 mm)
- > Different operating forces
- > Ring and full illumination of the button surface due to plunger
- > Variable overall heights due to plunger
- > Terminal technology: SMT
- > Traceability through product identification in accordance with DIN EN ISO 9001

CE

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
- > Packaging in blister tape, spool with 2,100 pieces
- > Proposal for stencil printing: 150 μm stencil with 10% pad reduction on area



technical data

> general

Operating temperature, min. -40 °C Storage temperature, min. -40 °C

Operating temperature, max. 125 °C Storage temperature, max. 90 °C illuminated No

Soldering Reflow

direct links

> RAFI eCatalog

Solder heat resistance according

DIN EN 60068-2-58
to standard

DIN EN 61760-1

Packaging Blister

Operating life 1,000,000 cycles B10 1,300,000 cycles

Degree of protection, front side, according to DIN EN 60529 IPx7 Degree of protection, rear side, according to DIN EN 60529 IPx7 MSL Moisture Sensitivity Level 1

Shock resistance according to 50 g at 11 ms amplitude semi-sinusoidal

standard IEC 60068-2-27

oscillation restistance according 5 g at 10...500 Hz

to standard IEC 60068-2-6

RoHS compliant Yes
REACH compliant Yes

> mounting diameters

> mechanical data

Actuation function momentary contact function

Operating force, max. 4 N

Operating force, min. $2.9 \pm 0.6 \text{ N}$ Switching travel $0.7 \pm 0.15 \text{ mm}$ Contact function 1 NC + 1 NO

Contact material Gold
Terminal on the rear SMT
Solderability Yes

> electrical data

Rated voltage, min.

Rated voltage, max.

Dielectric strength

Rated current, min.

Rated current, max.

O.1 A

Rated power, max.

0.02 V

250 V

0.00001 A

1 W

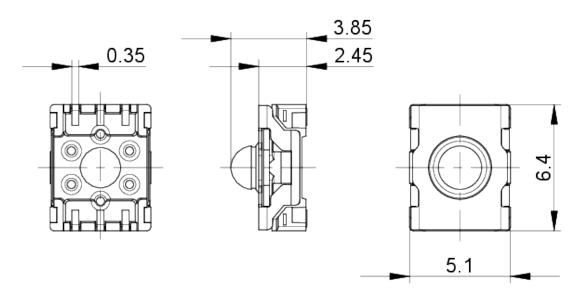




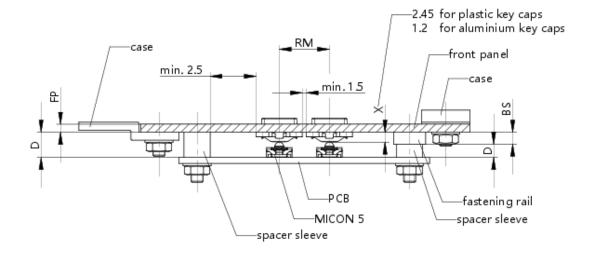


drawings

Dimensioned drawing



System drawing



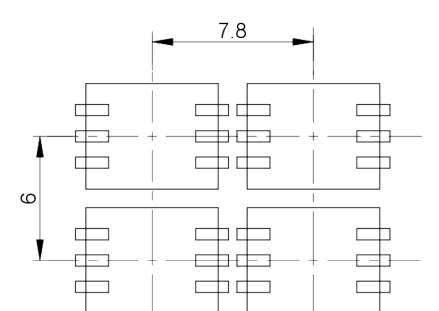


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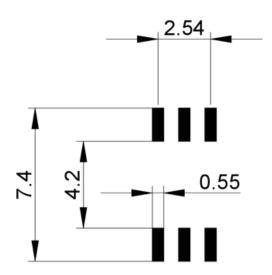
PCB drawing



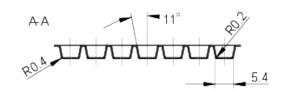




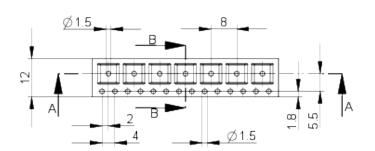
PCB drawing

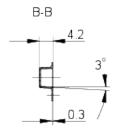


Packaging drawing

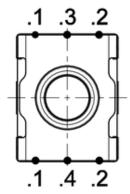








Connection drawing





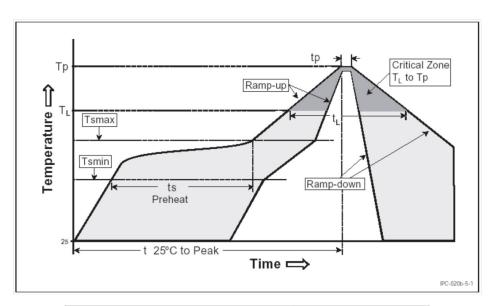


mounting

RAFI soldering profile for ROHS compliant reflow components



Publication date: October 7, 2021



Parameter	RAFI values
Gradient (T _L to T _P)	max. 3°C / s
Preheating zone Minimum temperature (T _{smin}) Maximum temperature (T _{smax}) Time (from min. to max.) (ts)	150°C 200°C 60 - 120 s
Gradient (T _{smax} to T _L)	max. 3°C/s
Time over melting temperature (T _L) time (t _L)	217°C 60 – 150 s
Peak temperature (T _P)	max. 260°C (+0°C)
Time within peak temperature – 5°C (tp)	20-40 s
Gradient ramp down	max. 6°C / s
Time difference from 25°C to peak temperature	max. 8 minutes

The reflow soldering profile is based on the definition of Jedec J-STD-020D.

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