

# MICON 5 S, SMT low, 5.0 ± 1.0 N, 1 NO



# 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

MICON 5, SMT nieder mit einer Bauhöhe von nur 3,45 mm Verarbeitungshinweis: Sonderpipette (Siemens Siplace Best.-Nr. 348514-02) Bestückung mit Revolverkopf. Vorschlag für Schablonendruck: 150 ?m-Schablone mit 10% Pad-Verkleinerung auf Fläche

# technical data

> general	I
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Operating temperature, min.	-40 °C
Operating temperature, max.	125 °C
Storage temperature, min.	-40 °C
Storage temperature, max.	90 °C
illuminated	No
Soldering	Reflow
Solder heat resistance according	DIN EN 60068-2-58
to standard	DIN EN 61760-1

### direct links

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# 1.14.005.113/0000



	Deckeding	Blister
	Packaging Packaging unit	2,100 pcs.
	net weight	
	Operating life	0.3 g 1,000,000 cycles
	B10	
		1,300,000 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 10500 Hz
	MOQ order	2,100 pcs.
	RoHS compliant	Yes
	REACH compliant	Yes
>	mounting diameters	
	Outside dimension, length	6.4 ± 0.1 mm
	Outside dimension, width	5.1 ± 0.1 mm
	Installation height	3.45 ± 0.1 mm
	Grid, min.	6 x 7.8 mm
>	mechanical data	
	Actuation function	momentary contact function
	Operating force, max.	8 N
	Operating force, min.	5 ± 1.0 N
	Switching travel	0.7 ± 0.15 mm
	Bounce time at 10 mm/s	<5 ms
	Contact function	1 NO
	Contact system	Snap-action contact SPST - Single Pole Single Throw
	Contact material	Gold
	Solderability	Yes
	Terminal on the rear	SMT
>	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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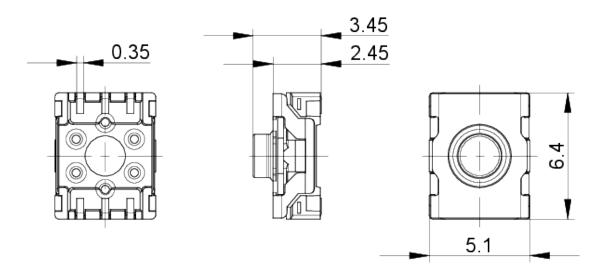
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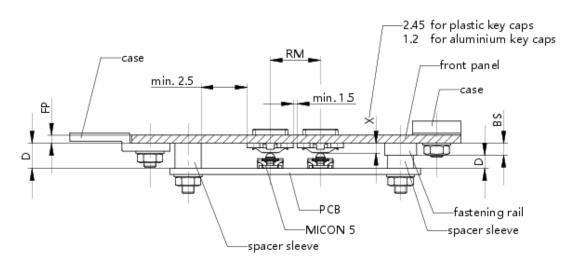


# drawings

# **Dimensioned drawing**



System drawing

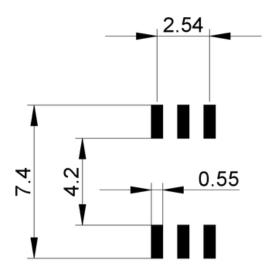


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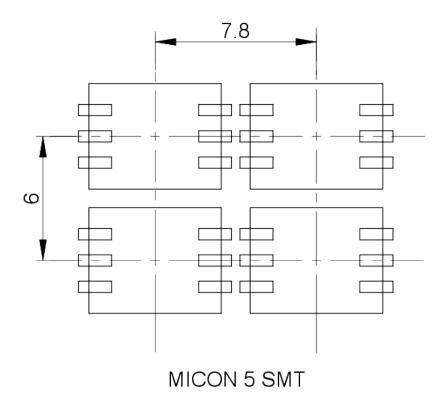




## **PCB drawing**



### **PCB drawing**



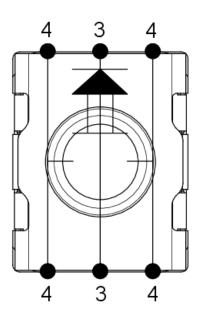
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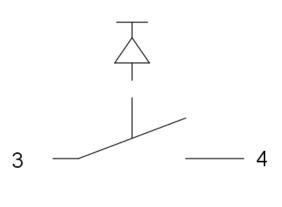
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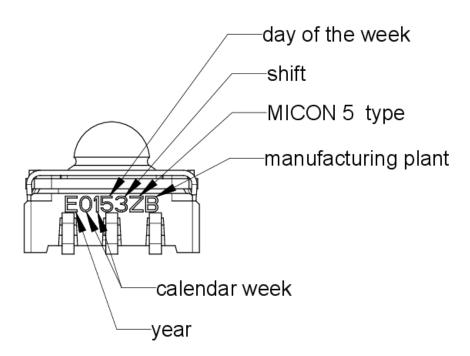
## Schematic diagram





Circuit symbol according to IEC 617

**Product labeling drawing** 



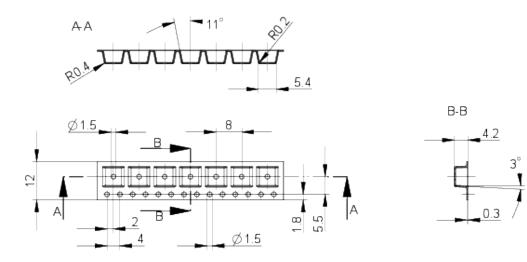
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# **Packaging drawing**



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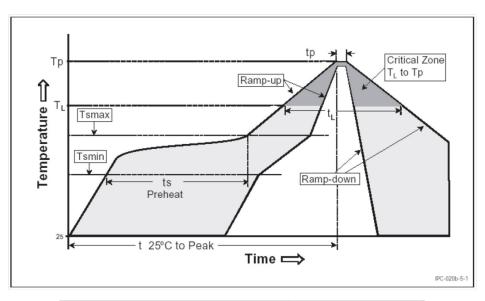


# mounting

# 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 <sub>smin</sub> ) Maximum temperature (T <sub>smax</sub> ) 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℃ 60 – 150 s
Peak temperature (T <sub>P</sub> )	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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