

MS Series Subminiature Snap-acting Switches

Features/Benefits

- Detect interlock and movement
- Different lever options
- Various operating forces
- Extended mechanical life
- UL approval on some designs
- Customization available

Typical Applications

- Automotive
- Office equipment
- Consumer electronics
- Appliances
- Audio & visual equipment
- Medical
- Industrial meters





Specifications

CONTACT ARRANGEMENT: SPDT

CONTACT RATING: 5 A @ 125 VAC / 3 A @ 250 VAC OPERATING LIFE: 1,000,000 cycles without load

6,000 cycles with load UL

INITIAL CONACT RESISTANCE: 100 m Ω max. INSULATION RESISTANCE: 100 M Ω min. @ 500 VDC DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz) OPERATING TEMPERATURE: -40°C to + 85°C

OPERATING FORCE: 130 ± 30 gf PRE-TRAVEL (PT): 0.6 mm max. OVERTRAVEL: 0.5 mm max.

OPERATING POSITION (OP): $8.40 \pm 0.40 \text{ mm}$

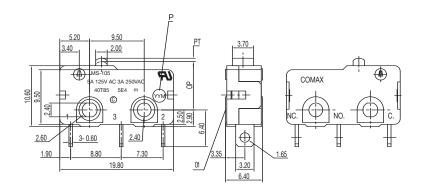
Materials

COVER: PBT (UL94V-0) HOUSING: PBT (UL94V-0) KNOB: PBT (UL94V-0) TERMINALS: Silver plated

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

PART NUMBER

MS-105A01





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PIERCING PLAN

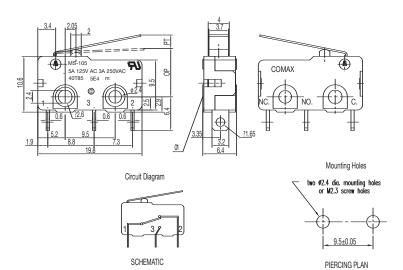


Dimensions are shown: mm Specifications and dimensions subject to change

MS Series Subminiature Snap-acting Switches







Specifications

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OPERATING FORCE: 65 ± 20 gf PRE-TRAVEL (PT): 3.0 mm max. OVERTRAVEL: 1.0 mm max.

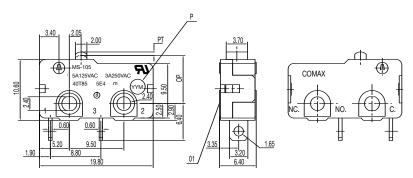
OPERATING POSITION (OP): $9.40 \pm 1.0 \text{ mm}$

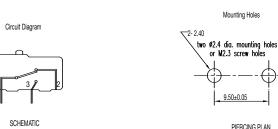
Materials

COVER: PBT (UL94V-0) HOUSING: PBT (UL94V-0) KNOB: PBT (UL94V-0) TERMINALS: Silver plated

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.







Specifications

CONTACT ARRANGEMENT: SPST

CONTACT RATING: 5 A @ 125 VAC / 3 A @ 250 VAC OPERATING LIFE: 1,000,000 cycles without load

6,000 cycles with load UL

INITIAL CONACT RESISTANCE: 100 m Ω max. INSULATION RESISTANCE: 100 M Ω min. @ 500 VDC DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz) OPERATING TEMPERATURE: -40°C to + 85°C

OPERATING FORCE: 230 ± 50 gf PRE-TRAVEL (PT): 0.6 mm max. OVERTRAVEL: 0.5 mm max.

OPERATING POSITION (OP): 8.40 ± 0.40 mm

Materials

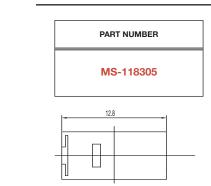
COVER: PBT (UL94V-0) HOUSING: PBT (UL94V-0) KNOB: PBT (UL94V-0) TERMINALS: Silver plated

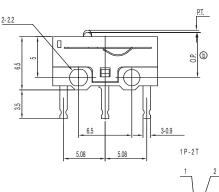
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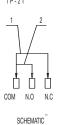


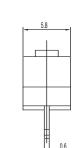


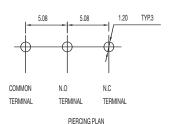
MS Series Subminiature Snap-acting Switches











Specifications

CONTACT ARRANGEMENT: SPDT CONTACT RATING: 0.1 A @ 30 VDC

OPERATING LIFE: 500,000 cycles without load

50,000 cycles with load

INITIAL CONACT RESISTANCE: 50 m Ω max.

INSULATION RESISTANCE: 100 M Ω min. @ 500 VDC DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz) OPERATING TEMPERATURE: -20°C to + 70°C

OPERATING FORCE: 70 ± 40 gf PRE-TRAVEL (PT): 0.50 mm max. OVERTRAVEL: 0.5 mm min.

OPERATING POSITION (OP): 5.50 ± 0.30 mm

Materials

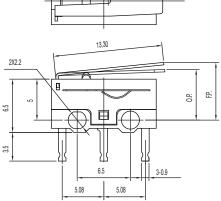
COVER: PBT (UL94V-0) HOUSING: PBT (UL94V-0) KNOB: PBT (UL94V-0) TERMINALS: Silver plated

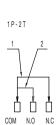
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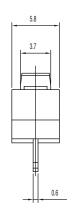
MS-118305-A

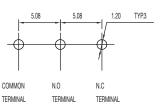
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Specifications

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OPERATING LIFE: 500,000 cycles without load

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INSULATION RESISTANCE: 100 M Ω min. @ 500 VDC DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz) OPERATING TEMPERATURE: -20°C to + 70°C

OPERATING FORCE: 25 ± 15 gf OVERTRAVEL: 0.5 mm min.

OPERATING POSITION (OP): 6.0 ± 0.80 mm FREE POSITION (FP): 8.5mm max.

Materials

COVER: PBT (UL94V-0) HOUSING: PBT (UL94V-0) KNOB: PBT (UL94V-0) TERMINALS: Silver plated

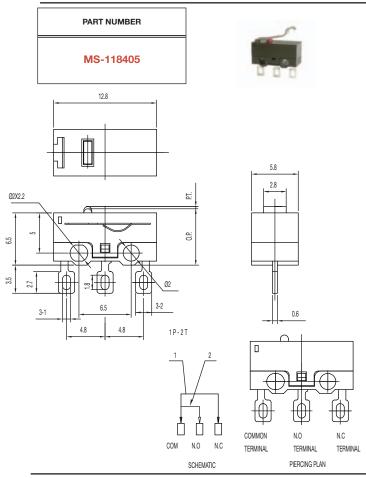
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OPERATING FORCE: 70 ± 40 gf PRE-TRAVEL (PT): 0.50 mm max. OVERTRAVEL: 0.5 mm min.

OPERATING POSITION (OP): $7.0 \pm 0.30 \text{ mm}$

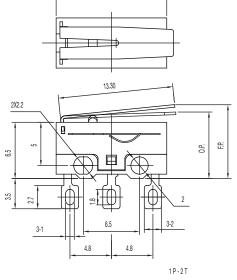
Materials

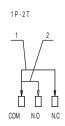
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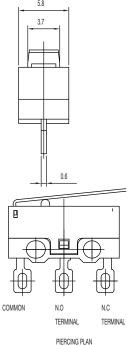


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SCHEMATIC



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OPERATING FORCE: 25 ± 15 gf OVERTRAVEL: 0.5 mm min.

OPERATING POSITION (OP): $7.5 \pm 0.80 \text{ mm}$

FREE POSITION (FP): 10 mm max.

Materials

COVER: PBT (UL94V-0) HOUSING: PBT (UL94V-0) KNOB: PBT (UL94V-0) TERMINALS: Silver plated

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