Features/Benefits

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

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 m1/2 max. INSULATION RESISTANCE: 100 M 1/2 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 ± 0.40 mm

PART NUMBER

MS-105A01

Typical Applications

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

Materials

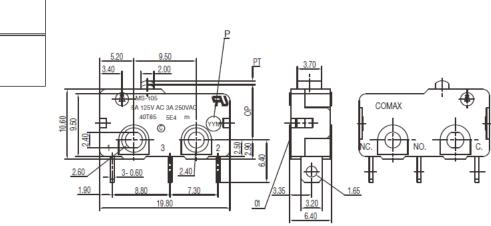
COVER: PBT (UL94V-0)

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.



Standard Size

Circuit Diagram

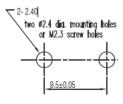






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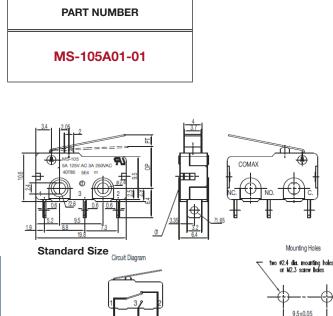
Snap-acting



PIERCING PLAN



MS Series **Small Size Snap-acting Switches**



PIERCING PLAN

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 m1/2 max. INSULATION RESISTANCE: 100 M 1/2 min. @ 500 VDC DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz) OPERATING TEMPERATURE: -40°C to + 85°C OPERATING FORCE: 65 ± 20 gf PRE-TRAVEL (PT): 3.0 mm max. OVERTRAVEL: 1.0 mm max. OPERATING POSITION (OP): 9.40 ± 1.0 mm

Materials

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

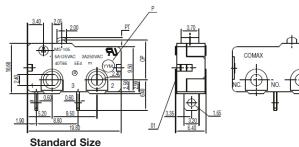
NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

PART NUMBER

Snap-acting

SCHEMATIC

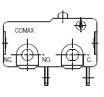
MS-105B01



Circuit Diagram



SCHEMATIC







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 m1/2 max. INSULATION RESISTANCE: 100 M 1/2 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**

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

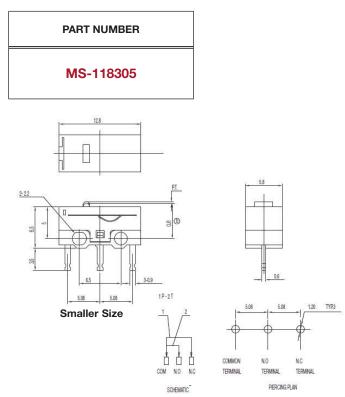


Specifications and dimensions subject to change



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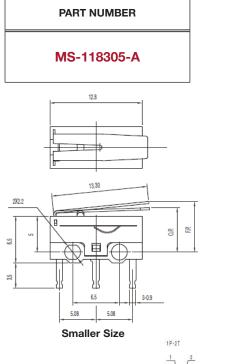
Specifications

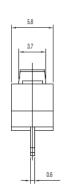
CONTACT ARRANGEMENT: SPDT CONTACT RATING: 0.1 A @ 30 VDC OPERATING LIFE: 500,000 cycles without load 50,000 cycles with load INITIAL CONACT RESISTANCE: 50 m¹/₂ max. INSULATION RESISTANCE: 100 M $\frac{1}{2}$ min. @ 500 VDC DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz) OPERATING TEMPERATURE: -20°C to + 70°C 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

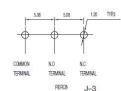
Materials

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

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: SPDT CONTACT RATING: 0.1 A @ 30 VDC OPERATING LIFE: 500,000 cycles without load 50,000 cycles with load INITIAL CONACT RESISTANCE: 50 m½ max. INSULATION RESISTANCE: 100 M½ 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

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

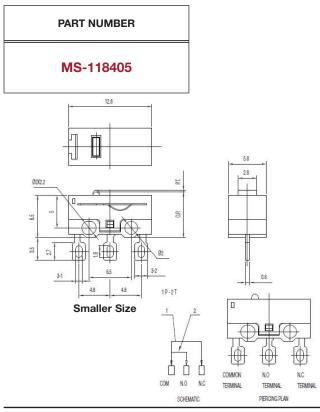
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

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SCHEMATIC

MS Series **Small Size 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 m1/2 max. INSULATION RESISTANCE: 100 M 1/2 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): 7.0 ± 0.30 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: SPDT CONTACT RATING: 0.1 A @ 30 VDC OPERATING LIFE: 500,000 cycles without load 50,000 cycles with load INITIAL CONACT RESISTANCE: 50 m1/2 max. INSULATION RESISTANCE: 100 M 1/2 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): 7.5 ± 0.80 mm FREE POSITION (FP): 10 mm max.

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.



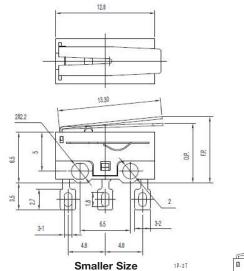
Dimensions are shown: Inch (mm)

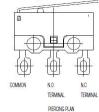
Specifications and dimensions subject to change

Snap-acting

PART NUMBER

MS-118405-A





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