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*

Typical Applications

- *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 m½ max.
INSULATION RESISTANCE: 100 M ½ min. @ 500 VDC
DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz)
OPERATING TEMPERATURE: -40ºC to + 85ºC
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

Materials

COVER: PBT (UL94V-0)

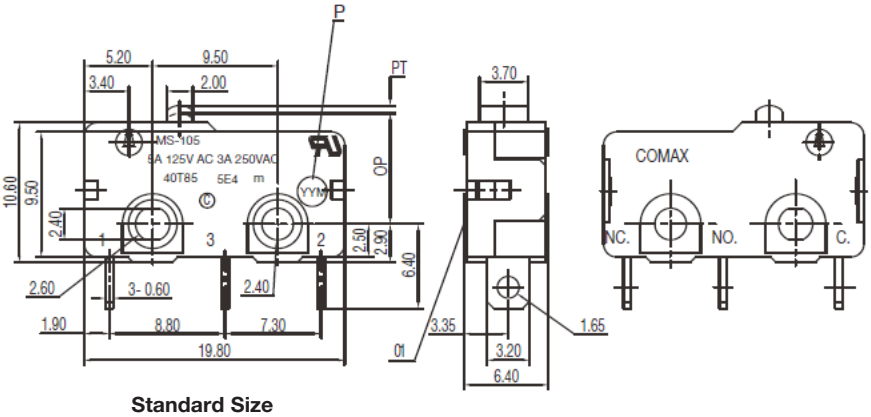
HOUSING: PBT (UL94V-0)

KNOB: PBT (UL94V-0)

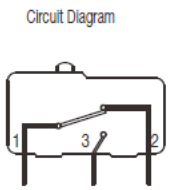
TERMINALS: Silver plated

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

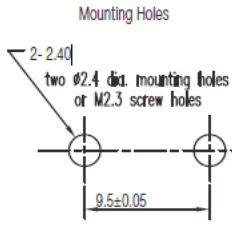
PART NUMBER
MS-105A01



Standard Size



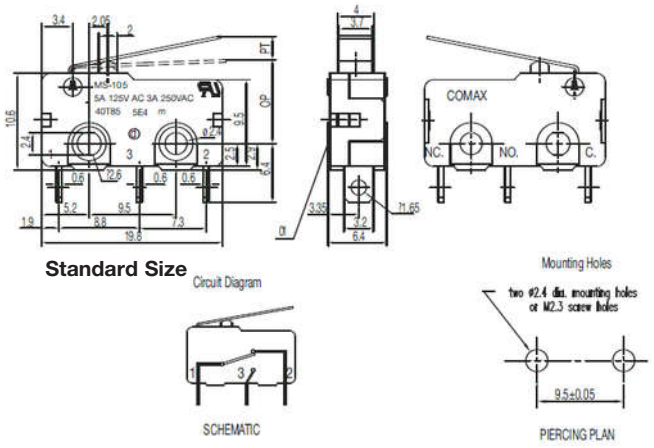
SCHEMATIC



PIERCING PLAN

MS Series
Small Size Snap-acting Switches

PART NUMBER
MS-105A01-01



Specifications

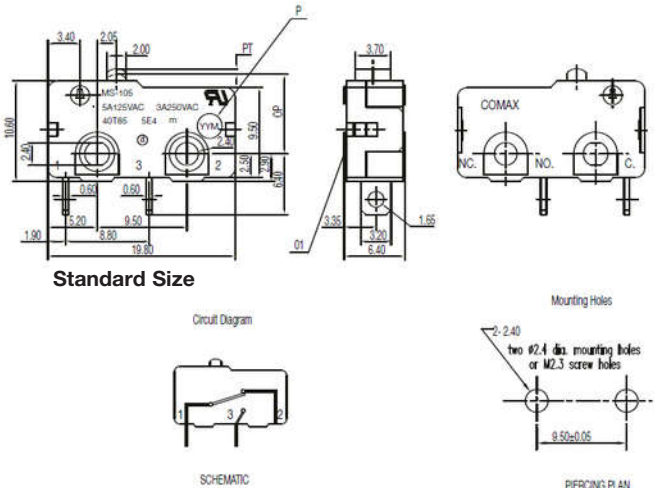
CONTACT ARRANGEMENT: SPDT
CONTACT RATING: 5 A @ 125 VAC / 3 A @ 250 VAC
OPERATING LIFE: 1,000,000 cycles without load
6,000 cycles with load UL
INITIAL CONACT RESISTANCE: 100 m½ max.
INSULATION RESISTANCE: 100 M ½ min. @ 500 VDC
DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz)
OPERATING TEMPERATURE: -40°C to + 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
MS-105B01



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 m½ max.
INSULATION RESISTANCE: 100 M ½ 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

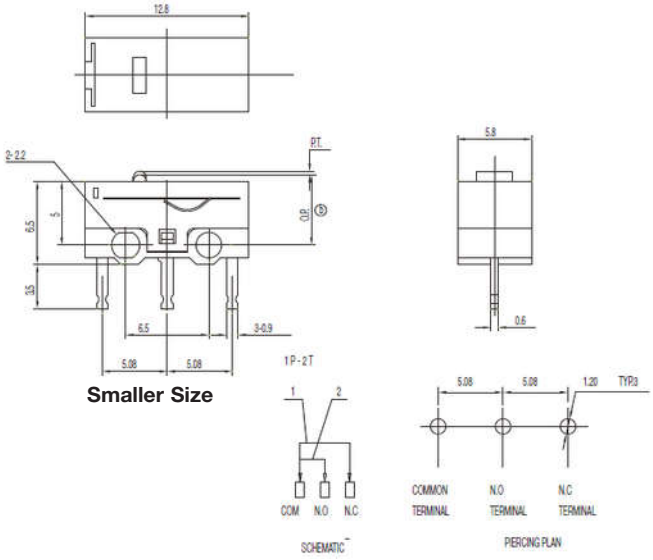
COVER: PBT (UL94V-0)
HOUSING: PBT (UL94V-0)
KNOB: PBT (UL94V-0)
TERMINALS: Silver plated

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

Third Angle Projection

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

PART NUMBER
MS-118305



Smaller Size

Specifications

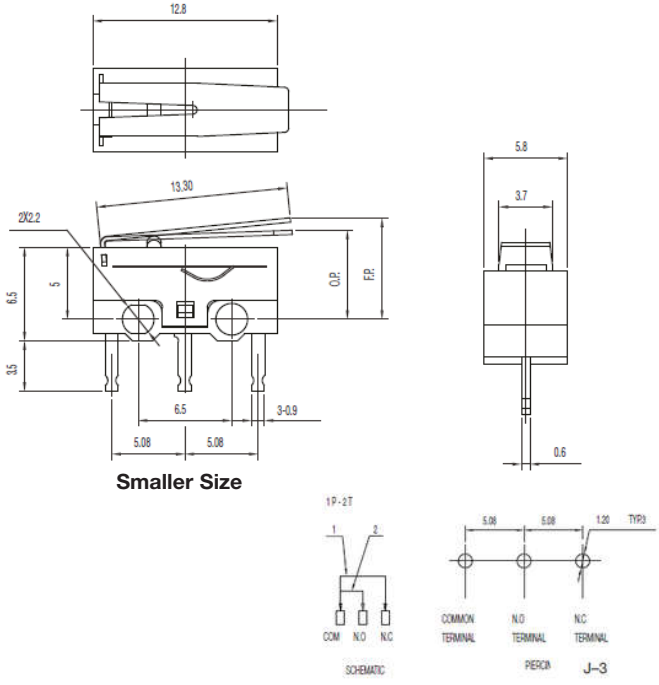
CONTACT ARRANGEMENT: SPDT
CONTACT RATING: 0.1 A @ 30 VDC
OPERATING LIFE: 500,000 cycles without load
50,000 cycles with load
INITIAL CONACT RESISTANCE: 50 m½ max.
INSULATION RESISTANCE: 100 M ½ min. @ 500 VDC
DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz)
OPERATING TEMPERATURE: -20ºC to + 70ºC
OPERATING FORCE: 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.

PART NUMBER
MS-118305-A



Smaller Size

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 M ½ min. @ 500 VDC
DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz)
OPERATING TEMPERATURE: -20ºC to + 70ºC
OPERATING FORCE: 25 ± 15 gf
OVERTRAVEL: 0.5 mm min.
OPERATING POSITION (OP): 6.0 ± 0.80 mm
FREE POSITION (FP): 8.5mm max.

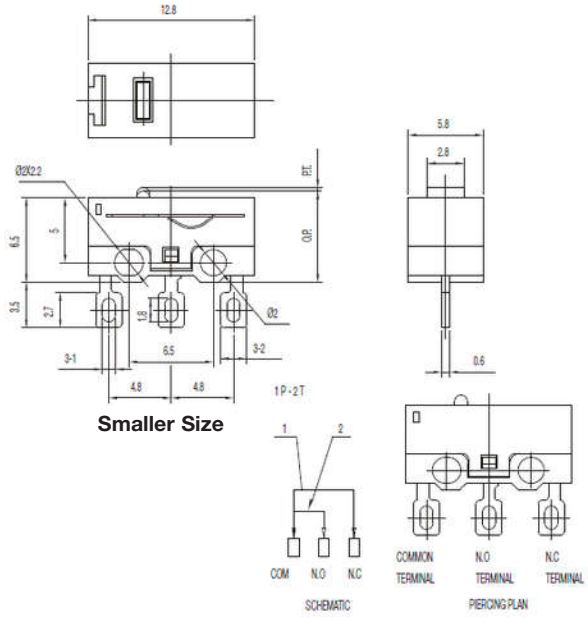
Materials

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

PART NUMBER
MS-118405



Smaller Size

Specifications

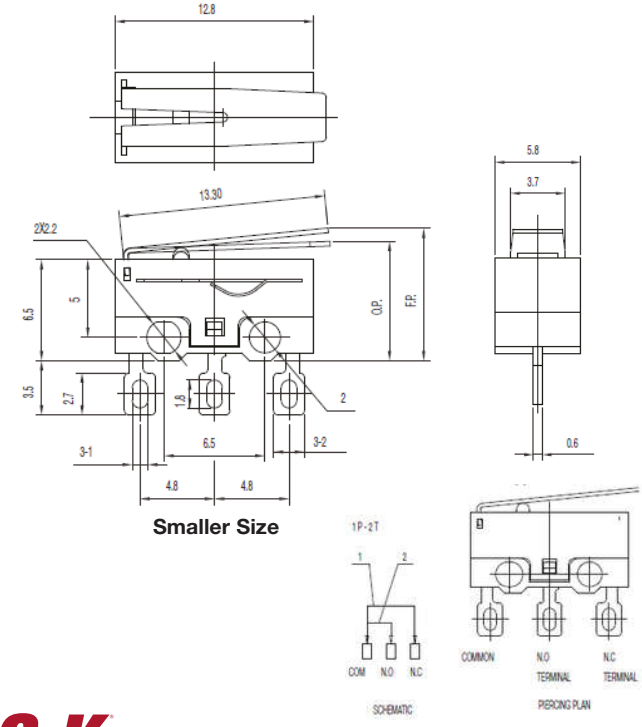
CONTACT ARRANGEMENT: SPDT
CONTACT RATING: 0.1 A @ 30 VDC
OPERATING LIFE: 500,000 cycles without load
50,000 cycles with load
INITIAL CONACT RESISTANCE: 50 m½ max.
INSULATION RESISTANCE: 100 M ½ min. @ 500 VDC
DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz)
OPERATING TEMPERATURE: -20°C to + 70°C
OPERATING FORCE: 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.

PART NUMBER
MS-118405-A



Smaller Size

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 M ½ 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.

Third Angle Projection

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