

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
- RoHS compatible and compliant

Typical Applications

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



Specifications

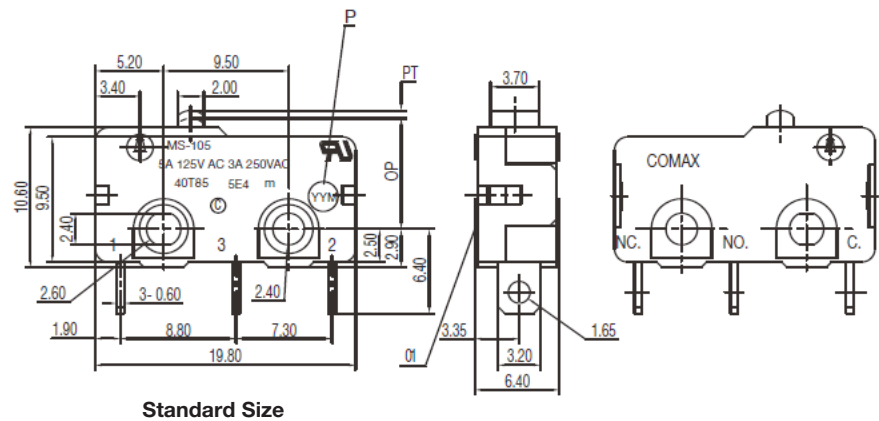
CONTACT ARRANGEMENT: SPDT
 CONTACT RATING: 5 A @ 125 VAC / 3 A @ 250 VAC
 OPERATING LIFE: 1,000,000 cycles without load
 6,000 cycles with load UL
 INITIAL CONTACT RESISTANCE: 100 mΩ max.
 INSULATION RESISTANCE: 100 MΩ min. @ 500 VDC
 DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz)
 OPERATING TEMPERATURE: -40°C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

Materials

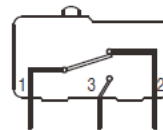
COVER: PBT (UL94V-0)
 HOUSING: PBT (UL94V-0)
 KNOB: PBT (UL94V-0)
 TERMINALS: Silver plated

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

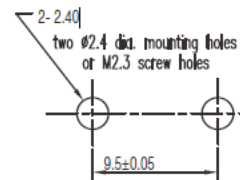


Circuit Diagram



SCHEMATIC

Mounting Holes



PIERCING PLAN

Snap-acting


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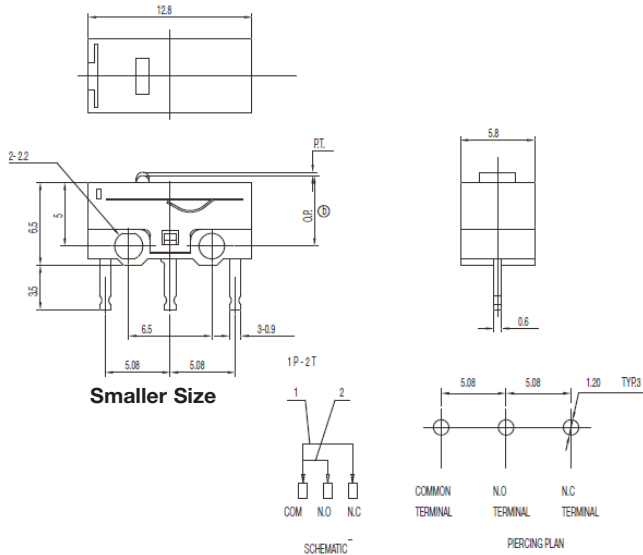
Snap-acting



MS Series Subminiature Snap-acting Switches

PART NUMBER

MS-118305



Specifications

CONTACT ARRANGEMENT: SPDT
CONTACT RATING: 0.1 A @ 30 VDC
OPERATING LIFE: 500,000 cycles without load
50,000 cycles with load
INITIAL CONTACT 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 $\pm$ 40 gf
PRE-TRAVEL (PT): 0.50 mm max.
OVERTRAVEL: 0.5 mm min.
OPERATING POSITION (OP): 5.50 $\pm$ 0.30 mm

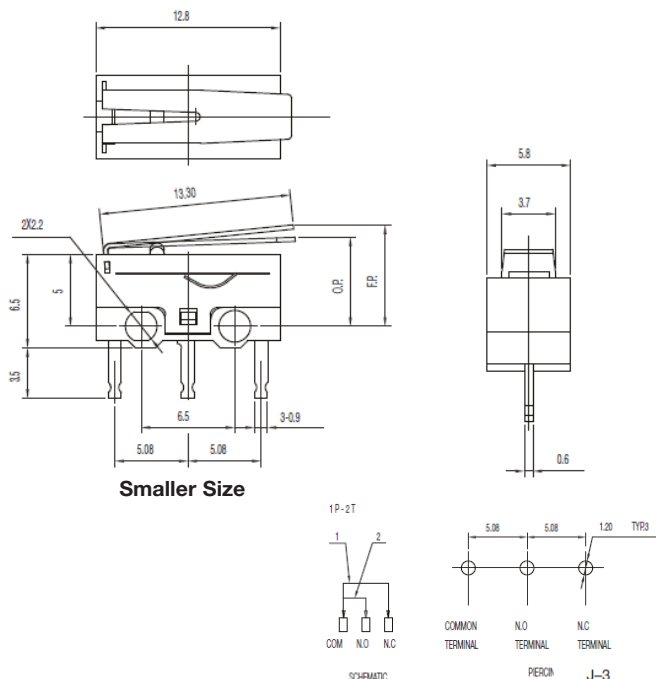
Materials

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



Specifications

CONTACT ARRANGEMENT: SPDT
CONTACT RATING: 0.1 A @ 30 VDC
OPERATING LIFE: 500,000 cycles without load
50,000 cycles with load
INITIAL CONTACT 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: 25 $\pm$ 15 gf
OVERTRAVEL: 0.5 mm min.
OPERATING POSITION (OP): 6.0 $\pm$ 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.

Snap-acting

The technical drawings include:

- Top View:** Shows a rectangular component with a width of 12.8. It features a central rectangular cutout and a smaller rectangular feature on the left side.
- Side View:** Shows the component's profile with a total height of 6.5. It includes a mounting tab on the left and a central cutout. Dimensions include 5 for the main body height, 3.5 for the mounting tab height, 2.7 for the mounting tab width, 1.8 for the central cutout width, 6.5 for the main body width, and 3.2 for the mounting tab width.
- Front View:** Shows the component's front face with a width of 6.5. It includes a central cutout and two mounting tabs on the sides. Dimensions include 4.8 for the mounting tab width, 4.8 for the central cutout width, and 3.2 for the mounting tab width.
- Schematic Diagram:** A circuit diagram showing a single switch (1P-2T) with three terminals: COM (Common), N.O. (Normally Open), and N.C. (Normally Closed).
- Piercing Plan:** A top-down view of the component showing the internal wiring and the positions of the three terminals: COMMON, N.O. TERMINAL, and N.C. TERMINAL.

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

Technical drawings of the 1P-2T relay, showing dimensions and electrical connections.

Dimensions:

- Top view: 12.8
- Front view: 13.90, 2X2.2, 6.5, 5, 3.5, 2.7, 1.5, 6.5, 4.8, 4.8, 3-1, 3-2, 0.P., P.P., 5.8, 3.7, 0.6

Labels:

- Smaller Size
- 1P-2T
- 1, 2
- COM, NO, NC
- COMMON, NO, NC
- TERMINAL
- PIERCING PLAN

Schematic:

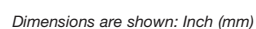
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    graph TD
      1 --- COM
      2 --- NO
      2 --- NC
  
```

Piercing Plan:

Diagram showing the internal components and terminals (COMMON, NO, NC) of the relay.

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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