

**NEW!**

# 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

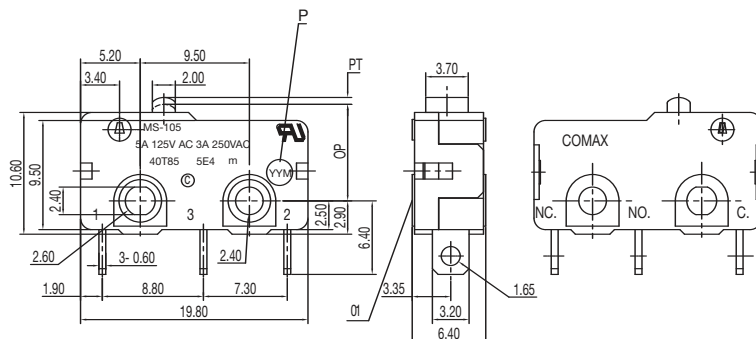
CONTACT ARRANGEMENT: SPDT  
CONTACT RATING: 5 A @ 125 VAC / 3 A @ 250 VAC  
OPERATING LIFE: 1,000,000 cycles without load  
6,000 cycles with load UL  
INITIAL CONTACT RESISTANCE: 100 mΩ max.  
INSULATION RESISTANCE: 100 M Ω min. @ 500 VDC  
DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz)  
OPERATING TEMPERATURE: -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 ± 0.40 mm

## Materials

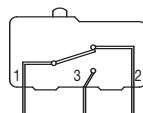
COVER: PBT (UL94V-0)  
HOUSING: PBT (UL94V-0)  
KNOB: PBT (UL94V-0)  
TERMINALS: Silver plated

**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      |
|------------------|
| <b>MS-105A01</b> |

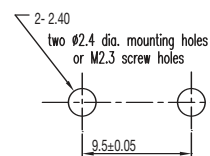


Circuit Diagram



SCHEMATIC

Mounting Holes



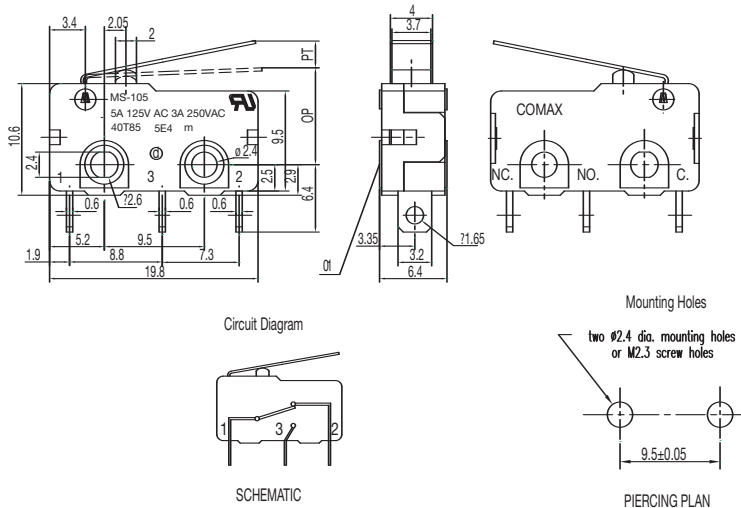
PIERCING PLAN



Dimensions are shown: mm  
Specifications and dimensions subject to change

**NEW!**

| PART NUMBER  |
|--------------|
| MS-105A01-01 |



## Specifications

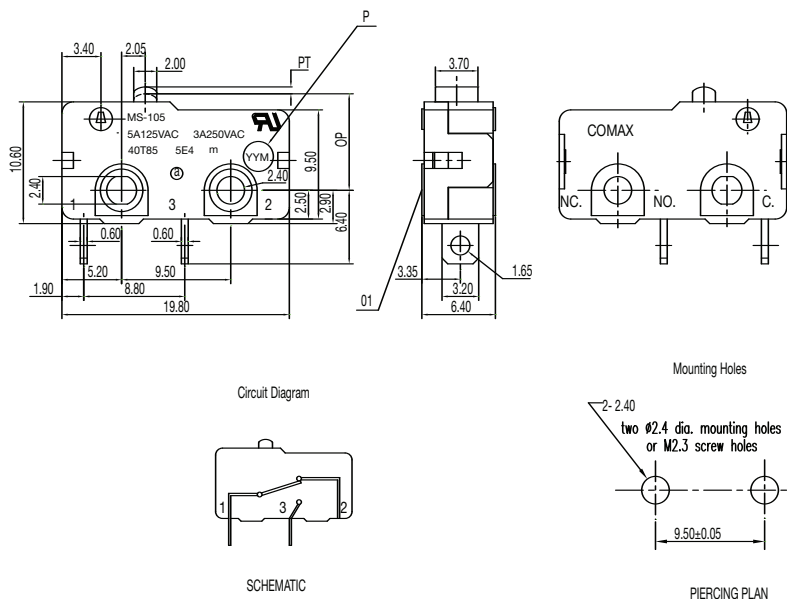
CONTACT ARRANGEMENT: SPDT  
CONTACT RATING: 5 A @ 125 VAC / 3 A @ 250 VAC  
OPERATING LIFE: 1,000,000 cycles without load  
6,000 cycles with load UL  
INITIAL CONTACT RESISTANCE: 100 mΩ max.  
INSULATION RESISTANCE: 100 M Ω min. @ 500 VDC  
DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz)  
OPERATING TEMPERATURE: -40°C to + 85°C  
OPERATING FORCE: 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.

|                    |
|--------------------|
| <b>PART NUMBER</b> |
| <b>MS-105B01</b>   |



## 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 CONTACT RESISTANCE: 100 mΩ 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

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

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# MS Series Subminiature Snap-acting Switches

| PART NUMBER      |
|------------------|
| <b>MS-118305</b> |



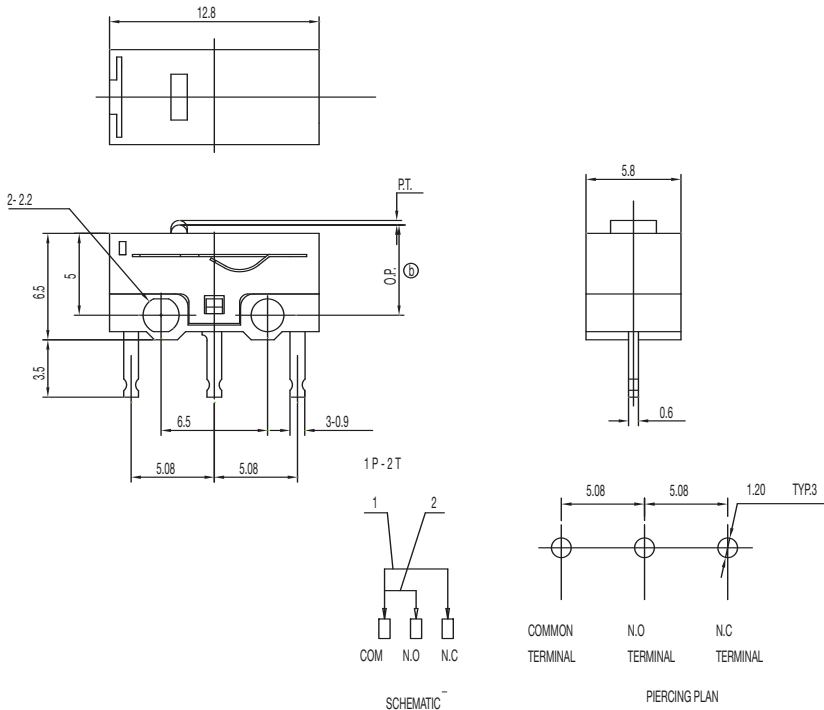
## Specifications

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 mΩ 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

**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        |
|--------------------|
| <b>MS-118305-A</b> |

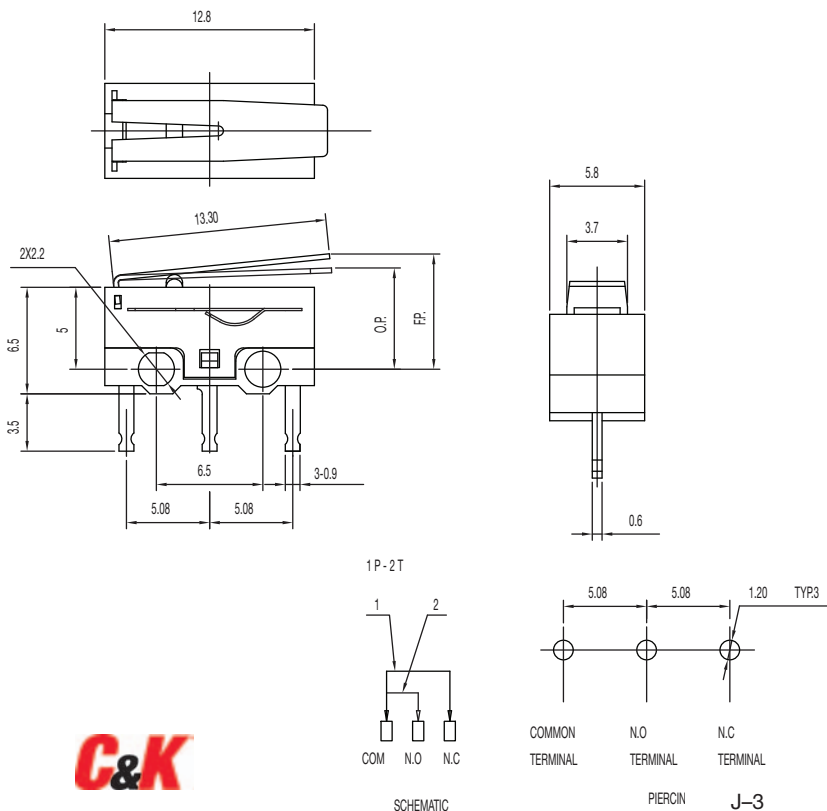
## Specifications

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 mΩ 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 ± 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.



**C&K**

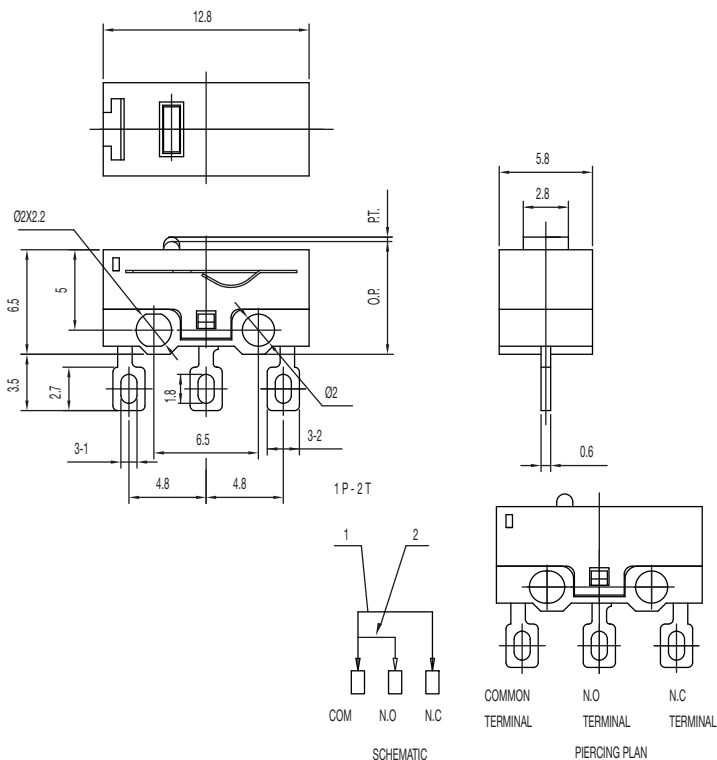
Dimensions are shown: mm  
Specifications and dimensions subject to change

[www.ck-components.com](http://www.ck-components.com)

# MS Series Subminiature Snap-acting Switches

**NEW!**

| PART NUMBER      |
|------------------|
| <b>MS-118405</b> |



## Specifications

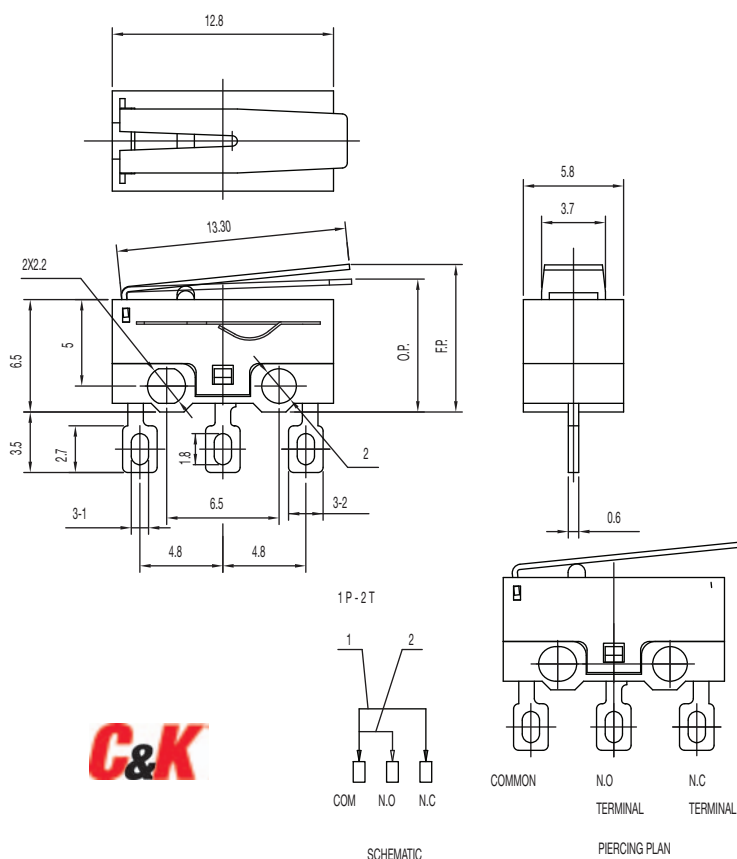
CONTACT ARRANGEMENT: SPDT  
 CONTACT RATING: 0.1 A @ 30 VDC  
 OPERATING LIFE: 500,000 cycles without load  
 50,000 cycles with load  
 INITIAL CONTACT RESISTANCE: 50 mΩ max.  
 INSULATION RESISTANCE: 100 M Ω min. @ 500 VDC  
 DIELECTRIC STRENGTH: 1000 VAC (50-60 Hz)  
 OPERATING TEMPERATURE: -20°C to + 70°C  
 OPERATING FORCE: 70 ± 40 gf  
 PRE-TRAVEL (PT): 0.50 mm max.  
 OVERTRAVEL: 0.5 mm min.  
 OPERATING POSITION (OP): 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        |
|--------------------|
| <b>MS-118405-A</b> |



## 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 mΩ 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 ± 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.

**C&K**

Dimensions are shown: mm  
 Specifications and dimensions subject to change