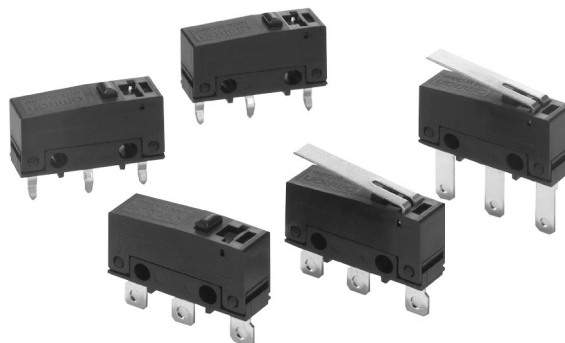


Subminiature Basic Switch SS-P

SS Series Compatible Mounting with a Simple Construction and Easy-to-Use Design Concept

- Insert molded base and improved case-to-base seal provides enhanced resistance to flux.
- Switch rating of 3 A at 125 VAC possible with a single-leaf movable spring. Models for micro loads with gold crossbar contact are also available.
- Long mechanical life.
- Internal lever provides increased durability and sensitivity.
- Solder, quick-connect terminals (#110), and PCB terminals are available, including even-pitched PCB terminals.
- RoHS Compliant.


NEW

Ordering Information

■ Model Number Legend

SS- P

1 2 3 4

1. Ratings

3: 3 A at 125 VAC
01: 0.1 A at 30 VDC

2. Contact Gap

G: 0.5 mm

3. Actuator

None: Pin plunger
L: Hinge lever
L13: Simulated roller lever

4. Terminals

None: Solder terminals
T: Quick-connect terminals (#110)
D: PCB terminals (Uneven pitch)
B: PCB terminals (Even pitch)

List of Models

Stock Note: Shaded items are normally stocked.

Rating	Actuator	Terminals	Solder terminals	Quick-connect terminals (#110)	PCB terminals	
					Uneven pitch	Even pitch
3 A	Pin plunger		SS-3GP	SS-3GPT	SS-3GPD	SS-3GPB
	Hinge lever		SS-3GLP	SS-3GLPT	SS-3GLPD	SS-3GLPB
	Simulated roller lever		SS-3GL13P	SS-3GL13PT	SS-3GL13PD	SS-3GL13PB
0.1 A	Pin plunger		SS-01GP	SS-01GPT	SS-01GPD	SS-01GPB
	Hinge lever		SS-01GLP	SS-01GLPT	SS-01GLPD	SS-01GLPB
	Simulated roller lever		SS-01GL13P	SS-01GL13PT	SS-01GL13PD	SS-01GL13PB

Specifications

Ratings

Rated voltage	Model Item	SS-3P	SS-01P
		Resistive load	
125 VAC	3 A		0.1 A
30 VDC	3 A		0.1 A

Note: 1. The rating values apply under the following test conditions.

Ambient temperature: 20±2° C

Ambient humidity: 65±5%

Operating frequency: 30 operations/min

2. Contact your OMRON representative for information on models for other loads.

■ Characteristics

Operating speed	0.1 mm to 1 m/s (for pin plunger models)
Operating frequency	Mechanical: 300 operations/min Electrical: 30 operations/min
Insulation resistance	100 MΩ min. (at 500 VDC)
Contact resistance (initial value)	SS-3P: 50 mΩ max. SS-01P: 100 mΩ max.
Dielectric strength (See note 2)	1,000 VAC, 50/60 Hz for 1 min between terminals of the same polarities 1,500 VAC, 50/60 Hz for 1 min between current-carrying metal parts and ground, and between each terminal and non-current-carrying metal parts
Vibration resistance (See note 3)	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance (See note 3)	Destruction: 1,000 m/s ² {approx. 100 G} max. Malfunction: 300 m/s ² {approx. 30 G} max.
Durability (See note 4)	Mechanical: 1,000,000 operations min. (60 operations/min) Electrical: SS-3P: 70,000 operations min. (20 operations/min, 125 VAC) 100,000 operations min. (20 operations/min, 30 VDC) SS-01P: 200,000 operations min. (20 operations/min)
Degree of protection	IEC IP40
Degree of protection against electrical shock	Class I
Proof tracking index (PTI)	175
Ambient operating temperature	-25° C to 85° C (at ambient humidity of 60% max.) (with no icing)
Ambient operating humidity	85% max. (for 5° C to 35° C)
Weight	Approx. 1.6 g (for pin plunger models)

Note: 1. The data given above are initial values.

2. The dielectric strength shown in the table indicates a value for models with a Separator.

3. For the pin plunger models, the above values apply for both the free position and total travel position. For the lever models, the values apply at the total travel position. Contact opening or closing time is within 1 ms.

4. Contact your OMRON sales representative for testing conditions.

■ Approved Standards

UL, CSA, and EN approval projected for September 2003.

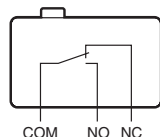
■ Contact Specifications

Item	Model	SS-3P	SS-01P
Contact	Specification	Rivet	Crossbar
	Material	Silver alloy	Gold alloy
	Gap (standard value)	0.5 mm	
Minimum applicable load (See note)		160 mA at 5 VDC	1 mA at 5 VDC

Note: For more information on the minimum applicable load, refer to *Using Micro Loads* on page 6.

■ Contact Form

SPDT



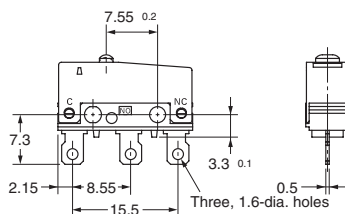
Dimensions

■ Terminals

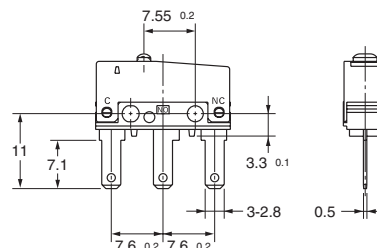
Unit: mm

Note: Terminal plate thickness is 0.5 mm for all models.

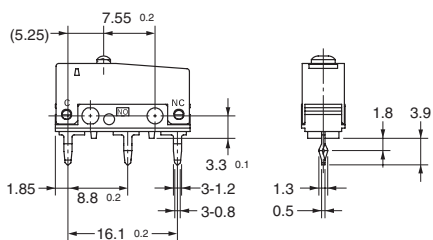
Solder Terminals



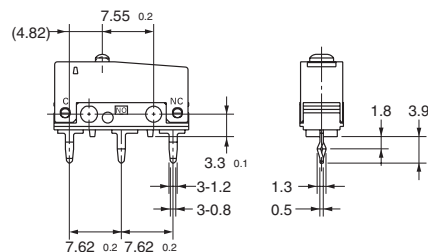
Quick-connect Terminals (#110)



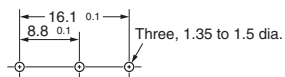
PCB Terminals (Uneven pitch)



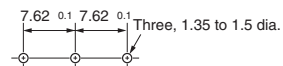
PCB Terminals (Even pitch)



PCB Mounting Dimensions (Reference)



PCB Mounting Dimensions (Reference)



■ Mounting Holes

Two, 2.4-dia. mounting holes or M2.3 screw holes

