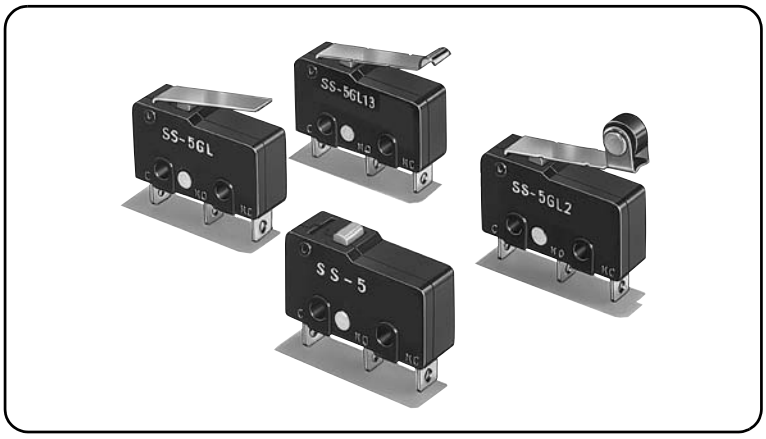
Subminiature Basic Switch Offers High Reliability and Security

- **The OMRON's best-selling micro switches of a wide variety from 0.1A to 10.1A.**
- **A variety of models are available, with operating force ranging from low to high.**
- **Two split springs ensure a high stability and durability of 30,000,000 operations.**
- **1 mm MIN Contact Gap Models available for Interlock applications**



Model Number Legend

SS-1 2 3 4 5 6

1. Ratings
10 : 250 VAC 10.1A
5 : 125 VAC 5 A
01 : 30 VDC 0.1A

2. Actuator
None : Pin plunger
GL : Hinge lever
GL111 : Long hinge lever
GL13 : Simulated roller lever
GL2 : Hinge roller lever
GL02 : Hinge roller lever (Roller material: Stainless) heat-resistant

3. Maximum Operating Force (OF)
None : 1.47 N {150 gf}
-F : 0.49 N {50 gf} (0.1 A, 5 A)
-E : 0.25 N {25 gf} (0.1 A)

Note. These values are for the pin plunger models.

4. Contact form
None : SPDT
-2 : SPST-NC
-3 : SPST-NO

5. Terminals
None : Solder terminals
T : Quick-connect terminals (#110)
D : PCB terminals

6. Heat resistance
None : Standard (85°C)
-T : Heat-resistant (120°C)

List of Models

●Standard Models

Actuator	Terminals	Contact Form	Ratings Maximum Operating Force (OF)	10.1 A	5 A	0.1 A
Pin plunger	Solder terminals	SPDT	1.47 N {150 gf}	**SS-10**	**SS-5**	**SS-01**
		SPST-NC		**SS-10-2**	**SS-5-2**	**SS-01-2**
		SPST-NO		**SS-10-3**	**SS-5-3**	**SS-01-3**
	Quick-connect terminals (#110)	SPDT		**SS-10T**	**SS-5T**	**SS-01T**
		SPST-NC		**SS-10-2T**	**SS-5-2T**	**SS-01-2T**
		SPST-NO		**SS-10-3T**	**SS-5-3T**	**SS-01-3T**
	PCB terminals	SPDT		**SS-10D**	**SS-5D**	**SS-01D**
		SPST-NC		**SS-10-2D**	**SS-5-2D**	**SS-01-2D**
		SPST-NO		**SS-10-3D**	**SS-5-3D**	**SS-01-3D**
	Solder terminals	SPDT	0.49 N {50 gf}	-	**SS-5-F**	**SS-01-F**
		SPST-NC		-	**SS-5-F-2**	**SS-01-F-2**
		SPST-NO		-	**SS-5-F-3**	**SS-01-F-3**
	Quick-connect terminals (#110)	SPDT		-	**SS-5-FT**	**SS-01-FT**
		SPST-NC		-	**SS-5-F-2T**	**SS-01-F-2T**
		SPST-NO		-	**SS-5-F-3T**	**SS-01-F-3T**
	PCB terminals	SPDT		-	**SS-5-FD**	**SS-01-FD**
		SPST-NC		-	**SS-5-F-2D**	**SS-01-F-2D**
		SPST-NO		-	**SS-5-F-3D**	**SS-01-F-3D**
	Solder terminals	SPDT	0.25 N {25 gf}	-	-	**SS-01-E**
		SPST-NC		-	-	**SS-01-E-2**
		SPST-NO		-	-	**SS-01-E-3**
	Quick-connect terminals (#110)	SPDT		-	-	**SS-01-ET**
		SPST-NC		-	-	**SS-01-E-2T**
		SPST-NO		-	-	**SS-01-E-3T**
	PCB terminals	SPDT		-	-	**SS-01-ED**
		SPST-NC		-	-	**SS-01-E-2D**
		SPST-NO		-	-	**SS-01-E-3D**

Separator (Sold Separately), Terminal Connector (Sold Separately) ➡ Refer to "**Basic Switch Common Accessories**"

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Actuator	Terminals	Contact Form	Ratings Maximum Operating Force (OF)	10.1 A	5 A	0.1 A
Hinge lever	Solder terminals	SPDT	0.49 N {50 gf}	SS-10GL	SS-5GL	SS-01GL
		SPST-NC		SS-10GL-2	SS-5GL-2	SS-01GL-2
		SPST-NO		SS-10GL-3	SS-5GL-3	SS-01GL-3
	Quick-connect terminals (#110)	SPDT		SS-10GLT	SS-5GLT	SS-01GLT
		SPST-NC		SS-10GL-2T	SS-5GL-2T	SS-01GL-2T
		SPST-NO		SS-10GL-3T	SS-5GL-3T	SS-01GL-3T
	PCB terminals	SPDT		SS-10GLD	SS-5GLD	SS-01GLD
		SPST-NC		SS-10GL-2D	SS-5GL-2D	SS-01GL-2D
		SPST-NO		SS-10GL-3D	SS-5GL-3D	SS-01GL-3D
	Solder terminals	SPDT	0.16 N {16 gf}	-	SS-5GL-F	SS-01GL-F
		SPST-NC		-	SS-5GL-F-2	SS-01GL-F-2
		SPST-NO		-	SS-5GL-F-3	SS-01GL-F-3
	Quick-connect terminals (#110)	SPDT		-	SS-5GL-FT	SS-01GL-FT
		SPST-NC		-	SS-5GL-F-2T	SS-01GL-F-2T
		SPST-NO		-	SS-5GL-F-3T	SS-01GL-F-3T
	PCB terminals	SPDT		-	SS-5GL-FD	SS-01GL-FD
		SPST-NC		-	SS-5GL-F-2D	SS-01GL-F-2D
		SPST-NO		-	SS-5GL-F-3D	SS-01GL-F-3D
	Solder terminals	SPDT	0.08 N {8 gf}	-	-	SS-01GL-E
		SPST-NC		-	-	SS-01GL-E-2
		SPST-NO		-	-	SS-01GL-E-3
	Quick-connect terminals (#110)	SPDT		-	-	SS-01GL-ET
		SPST-NC		-	-	SS-01GL-E-2T
		SPST-NO		-	-	SS-01GL-E-3T
	PCB terminals	SPDT		-	-	SS-01GL-ED
		SPST-NC		-	-	SS-01GL-E-2D
		SPST-NO		-	-	SS-01GL-E-3D
Long hinge lever	Solder terminals	SPDT	0.39 N {40 gf}	SS-10GL111	SS-5GL111	SS-01GL111
		SPST-NC		SS-10GL111-2	SS-5GL111-2	SS-01GL111-2
		SPST-NO		SS-10GL111-3	SS-5GL111-3	SS-01GL111-3
	Quick-connect terminals (#110)	SPDT		SS-10GL111T	SS-5GL111T	SS-01GL111T
		SPST-NC		SS-10GL111-2T	SS-5GL111-2T	SS-01GL111-2T
		SPST-NO		SS-10GL111-3T	SS-5GL111-3T	SS-01GL111-3T
	PCB terminals	SPDT		SS-10GL111D	SS-5GL111D	SS-01GL111D
		SPST-NC		SS-10GL111-2D	SS-5GL111-2D	SS-01GL111-2D
		SPST-NO		SS-10GL111-3D	SS-5GL111-3D	SS-01GL111-3D
	Solder terminals	SPDT	0.12 N {12 gf}	-	SS-5GL111-F	SS-01GL111-F
		SPST-NC		-	SS-5GL111-F-2	SS-01GL111-F-2
		SPST-NO		-	SS-5GL111-F-3	SS-01GL111-F-3
	Quick-connect terminals (#110)	SPDT		-	SS-5GL111-FT	SS-01GL111-FT
		SPST-NC		-	SS-5GL111-F-2T	SS-01GL111-F-2T
		SPST-NO		-	SS-5GL111-F-3T	SS-01GL111-F-3T
	PCB terminals	SPDT		-	SS-5GL111-FD	SS-01GL111FD
		SPST-NC		-	SS-5GL111-F-2D	SS-01GL111-F-2D
		SPST-NO		-	SS-5GL111-F-3D	SS-01GL111-F-3D
	Solder terminals	SPDT	0.06 N {6 gf}	-	-	SS-01GL111-E
		SPST-NC		-	-	SS-01GL111-E-2
		SPST-NO		-	-	SS-01GL111-E-3
	Quick-connect terminals (#110)	SPDT		-	-	SS-01GL111-ET
		SPST-NC		-	-	SS-01GL111-E-2T
		SPST-NO		-	-	SS-01GL111-E-3T
	PCB terminals	SPDT		-	-	SS-01GL111-ED
		SPST-NC		-	-	SS-01GL111-E-2D
		SPST-NO		-	-	SS-01GL111-E-3D
Simulated roller lever	Solder terminals	SPDT	0.49 N {50 gf}	SS-10GL13	SS-5GL13	SS-01GL13
		SPST-NC		SS-10GL13-2	SS-5GL13-2	SS-01GL13-2
		SPST-NO		SS-10GL13-3	SS-5GL13-3	SS-01GL13-3
	Quick-connect terminals (#110)	SPDT		SS-10GL13T	SS-5GL13T	SS-01GL13T
		SPST-NC		SS-10GL13-2T	SS-5GL13-2T	SS-01GL13-2T
		SPST-NO		SS-10GL13-3T	SS-5GL13-3T	SS-01GL13-3T
	PCB terminals	SPDT		SS-10GL13D	SS-5GL13D	SS-01GL13D
		SPST-NC		SS-10GL13-2D	SS-5GL13-2D	SS-01GL13-2D
		SPST-NO		SS-10GL13-3D	SS-5GL13-3D	SS-01GL13-3D
	Solder terminals	SPDT	0.16 N {16 gf}	-	SS-5GL13-F	SS-01GL13-F
		SPST-NC		-	SS-5GL13-F-2	SS-01GL13-F-2
		SPST-NO		-	SS-5GL13-F-3	SS-01GL13-F-3
	Quick-connect terminals (#110)	SPDT		-	SS-5GL13-FT	SS-01GL13-FT
		SPST-NC		-	SS-5GL13-F-2T	SS-01GL13-F-2T
		SPST-NO		-	SS-5GL13-F-3T	SS-01GL13-F-3T
	PCB terminals	SPDT		-	SS-5GL13-FD	SS-01GL13-FD
		SPST-NC		-	SS-5GL13-F-2D	SS-01GL13-F-2D
		SPST-NO		-	SS-5GL13-F-3D	SS-01GL13-F-3D
	Solder terminals	SPDT	0.08 N {8 gf}	-	-	SS-01GL13-E
		SPST-NC		-	-	SS-01GL13-E-2
		SPST-NO		-	-	SS-01GL13-E-3
	Quick-connect terminals (#110)	SPDT		-	-	SS-01GL13-ET
		SPST-NC		-	-	SS-01GL13-E-2T
		SPST-NO		-	-	SS-01GL13-E-3T
	PCB terminals	SPDT		-	-	SS-01GL13-ED
		SPST-NC		-	-	SS-01GL13-E-2D
		SPST-NO		-	-	SS-01GL13-E-3D

Separator (Sold Separately), Terminal Connector (Sold Separately) ➡ Refer to **"Basic Switch Common Accessories"**

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Actuator	Terminals	Contact Form	Ratings Maximum Operating Force (OF)	10.1 A	5 A	0.1 A
Hinge roller lever	Solder terminals	SPDT	0.49 N {50 gf}	**SS-10GL2**	**SS-5GL2**	**SS-01GL2**
		SPST-NC		**SS-10GL2-2**	**SS-5GL2-2**	**SS-01GL2-2**
		SPST-NO		**SS-10GL2-3**	**SS-5GL2-3**	**SS-01GL2-3**
	Quick-connect terminals (#110)	SPDT		**SS-10GL2T**	**SS-5GL2T**	**SS-01GL2T**
		SPST-NC		**SS-10GL2-2T**	**SS-5GL2-2T**	**SS-01GL2-2T**
		SPST-NO		**SS-10GL2-3T**	**SS-5GL2-3T**	**SS-01GL2-3T**
	PCB terminals	SPDT		**SS-10GL2D**	**SS-5GL2D**	**SS-01GL2D**
		SPST-NC		**SS-10GL2-2D**	**SS-5GL2-2D**	**SS-01GL2-2D**
		SPST-NO		**SS-10GL2-3D**	**SS-5GL2-3D**	**SS-01GL2-3D**
	Solder terminals	SPDT	0.16 N {16 gf}	-	**SS-5GL2-F**	**SS-01GL2-F**
		SPST-NC		-	**SS-5GL2-F-2**	**SS-01GL2-F-2**
		SPST-NO		-	**SS-5GL2-F-3**	**SS-01GL2-F-3**
	Quick-connect terminals (#110)	SPDT		-	**SS-5GL2-FT**	**SS-01GL2-FT**
		SPST-NC		-	**SS-5GL2-F-2T**	**SS-01GL2-F-2T**
		SPST-NO		-	**SS-5GL2-F-3T**	**SS-01GL2-F-3T**
	PCB terminals	SPDT		-	**SS-5GL2-FD**	**SS-01GL2-FD**
		SPST-NC		-	**SS-5GL2-F-2D**	**SS-01GL2-F-2D**
		SPST-NO		-	**SS-5GL2-F-3D**	**SS-01GL2-F-3D**
	Solder terminals	SPDT	0.08 N {8 gf}	-	-	**SS-01GL2-E**
		SPST-NC		-	-	**SS-01GL2-E-2**
		SPST-NO		-	-	**SS-01GL2-E-3**
	Quick-connect terminals (#110)	SPDT		-	-	**SS-01GL2-ET**
		SPST-NC		-	-	**SS-01GL2-E-2T**
		SPST-NO		-	-	**SS-01GL2-E-3T**
	PCB terminals	SPDT		-	-	**SS-01GL2-ED**
		SPST-NC		-	-	**SS-01GL2-E-2D**
		SPST-NO		-	-	**SS-01GL2-E-3D**

●Heat Resistant Models

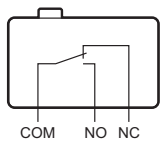
Actuator	Terminals	Contact Form	Ratings Maximum Operating Force (OF)	10.1 A	5 A	0.1 A
Pin plunger	Solder terminals	SPDT	1.47 N {150 gf}	**SS-10-T**	**SS-5-T**	**SS-01-T**
	Quick-connect terminals (#110)			**SS-10T-T**	**SS-5T-T**	**SS-01T-T**
	PCB terminals			**SS-10D-T**	**SS-5D-T**	**SS-01D-T**
Hinge lever	Solder terminals		0.49 N {50 gf}	**SS-10GL-T**	**SS-5GL-T**	**SS-01GL-T**
	Quick-connect terminals (#110)			**SS-10GLT-T**	**SS-5GLT-T**	**SS-01GLT-T**
	PCB terminals			**SS-10GLD-T**	**SS-5GLD-T**	**SS-01GLD-T**
Long hinge lever	Solder terminals		0.39 N {40 gf}	**SS-10GL111-T**	**SS-5GL111-T**	**SS-01GL111-T**
	Quick-connect terminals (#110)			**SS-10GL111T-T**	**SS-5GL111T-T**	**SS-01GL111T-T**
	PCB terminals			**SS-10GL111D-T**	**SS-5GL111D-T**	**SS-01GL111D-T**
Simulated roller lever	Solder terminals		0.49 N {50 gf}	**SS-10GL13-T**	**SS-5GL13-T**	**SS-01GL13-T**
	Quick-connect terminals (#110)			**SS-10GL13T-T**	**SS-5GL13T-T**	**SS-01GL13T-T**
	PCB terminals			**SS-10GL13D-T**	**SS-5GL13D-T**	**SS-01GL13D-T**
Hinge roller lever (Roller material: stainless steel)	Solder terminals		0.49 N {50 gf}	**SS-10GL02-T**	**SS-5GL02-T**	**SS-01GL02-T**
	Quick-connect terminals (#110)			**SS-10GL02T-T**	**SS-5GL02T-T**	**SS-01GL02T-T**
	PCB terminals			**SS-10GL02D-T**	**SS-5GL02D-T**	**SS-01GL02D-T**

●1 mm MIN Contact Gap Models

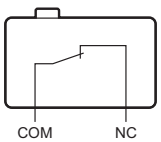
Actuator	Terminals	Contact Form	Ratings Maximum Operating Force (OF)	10.1 A	5 A	0.1 A
Long hinge lever	Solder terminals	SPST-NO	0.54 N {55 gf}	-	**SS-5FL111-3**	-
	Quick-connect terminals (#110)			-	**SS-5FL111-3T**	-

Contact Form

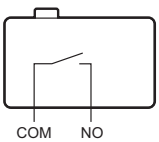
●SPDT



●SPST-NC



●SPST-NO



Contact Specifications

Item	Model	SS-10 models	SS-5 models	SS-01 models	SS-5F models
Contact	Specification	Rivet		Crossbar	Rivet
	Material	Silver alloy	Silver	Gold alloy	Silver
	Gap (standard value)	0.5 mm		0.25 mm	1mm min.
Inrush current	NC	20 A max.		1 A max.	-
	NO	15 A max.	10 A max.	1 A max.	10 A max.
Minimum applicable load (reference value)*		5 VDC 160 mA		5 VDC 1 mA	5 VDC 160 mA

* Please refer to "**●Using Micro Loads**" in "**Precautions**" for more information on the minimum applicable load.

Separator (Sold Separately), Terminal Connector (Sold Separately) ➡ Refer to "**Basic Switch Common Accessories**"

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Ratings

Model	Rated voltage	Resistive load
SS-10 models	250 VAC	10.1 A
SS-5 models	125 VAC 250 VAC	5 A 3 A
SS-01 models	125 VAC	0.1 A
	30 VDC	0.1 A
SS-5F models	250 VAC	3 A
	30 VDC	5 A

Note. The above rating values apply under the following test conditions.
(1) Ambient temperature: 20±2°C
(2) Ambient humidity: 65±5%
(3) Operating frequency: 30 operations/min

Approved Safety Standards

Models shown in the "**List of Models**" are UL and CSA approved models.

Note. Note that heat resistant models are not standard approved models.

UL (UL61058-1)/cUL (CSA C22.2 No.61058-1)

Model / Rated voltage	SS-10	SS-5	SS-01	SS-5F
125 VAC 250 VAC	- 10.1A	5 A 3 A	0.1 A -	- 3 A
30 VDC	-	-	0.1 A	5 A

Consult your OMRON sales representative for specific models with VDE standard approvals.

VDE (EN61058-1)

Model / Rated voltage	SS-10	SS-5	SS-5F
250 VAC	10 A	5 A	3 A

Testing conditions: 5E4 (50,000 operations)
T85 (0°C to 85°C)

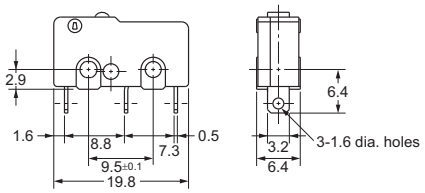
Characteristics

Item		Model	SS-10 models	SS-5 models	SS-01 models	SS-5F models
Permissible operating speed			0.1 mm to 1 m/s (for pin plunger models)			
Permissible operating frequency	Mechanical		400 operations/min			
	Electrical		60 operations/min			
Insulation resistance			100 MΩ min. (at 500 VDC with insulation tester)			
Contact resistance (initial value)		OF 1.47 N models	30 mΩ max.		50 mΩ max.	30 mΩ max.
		OF 0.49 N models	-	50 mΩ max.	100 mΩ max.	-
		OF 0.25 N models	-		150 mΩ max.	-
Dielectric strength *1	Between terminals of the same polarity		1,000 VAC 50/60 Hz for 1 min		600 VAC 50/60 Hz for 1 min	1,000 VAC 50/60 Hz for 1 min
	Between current-carrying metal parts and ground		1,500 VAC 50/60 Hz for 1 min			
	Between each terminals and non-current-carrying metal parts		1,500 VAC 50/60 Hz for 1 min			
Vibration resistance *2	Malfunction		10 to 55 Hz, 1.5 mm double amplitude			
Shock resistance	Durability	OF 1.47 N models	1,000 m/s² {approx. 100G} max.			
		OF 0.49 N models	500 m/s² {approx. 50G} max.			-
		OF 0.25 N models	500 m/s² {approx. 50G} max.			-
	Malfunction *2	OF 1.47 N models	300 m/s² {approx. 30G} max.			
		OF 0.49 N models	200 m/s² {approx. 20G} max.			-
		OF 0.25 N models	200 m/s² {approx. 20G} max.			-
Durability *3	Mechanical		10,000,000 operations min. (60 operations/min)	30,000,000 operations min. (60 operations/min)		100,000 operations min. (60 operations/min)
	Electrical		50,000 operations min. (30 operations/min)	200,000 operations min. (30 operations/min)		100,000 operations min. (30 operations/min)
Degree of protection			IEC IP40			
Degree of protection against electric 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 or condensation)			
Ambient operating humidity			85% max. (for +5°C to +35°C)			
Weight			Approx. 1.6g (pin plunger models)			

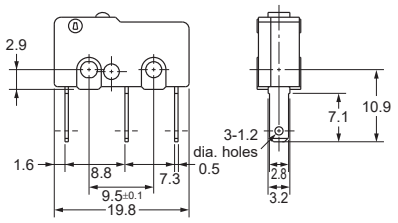
Note. The data given above are initial values.
*1. The values for dielectric strength shown are for models with a Separator (refer to "**Micro Switch Common Accessories**").
*2. The values are at Free Position and Total Travel Position values for pin plunger, and Total Travel Position value for lever. Close or open circuit of the contact is 1ms max.
*3. For testing conditions, consult your OMRON sales representative.

Terminals/Appearances (Unit: mm)

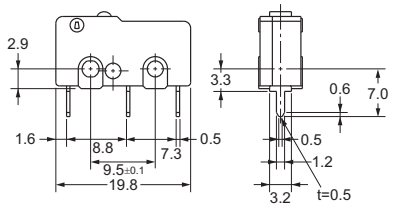
●Solder terminals



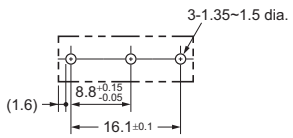
●Quick connect terminals (#110)



●PCB terminals

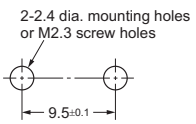


<PCB Mounting Dimensions (Reference)>



Note. SPST-NO terminal models do not have NC terminal.

Mounting Holes (Unit: mm)



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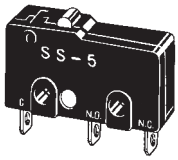
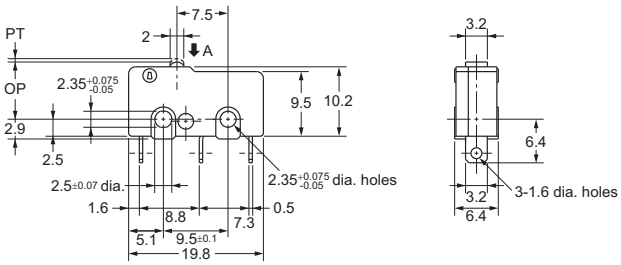
Dimensions (Unit: mm) and Operating Characteristics

The illustrations and drawings are for solder terminals models.

Refer to **"Terminals/Appearances"** of the previous page for details on models with quick connect terminals (#110) or PCB terminals.

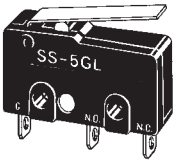
●Pin plunger
SS-10
SS-5 (-F)
SS-01 (-E, -F)

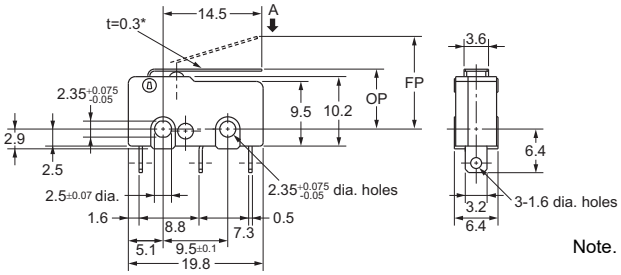




Operating Characteristics		Model	SS-10	SS-5 SS-01	SS-5-F SS-01-F	SS-01-E
Operating Force Releasing Force	OF RF	Max. Min.	1.47 N {150 gf} 0.25 N {25 gf}	1.47 N {150 gf} 0.25 N {25 gf}	0.49 N {50 gf} 0.04 N {4 gf}	0.25 N {25 gf} 0.02 N {2 gf}
Pretravel Overtravel Movement Differential	PT OT MD	Max. Min. Max.	0.6 mm 0.4 mm 0.12 mm	0.5 mm 0.5 mm 0.1 mm	0.5 mm 0.5 mm 0.1 mm	0.5 mm 0.5 mm 0.1 mm
Operating Position	OP		8.4±0.5 mm			

●Hinge lever
SS-10GL
SS-5GL (-F)
SS-01GL (-E, -F)



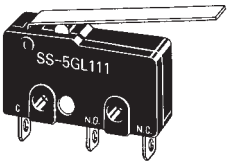


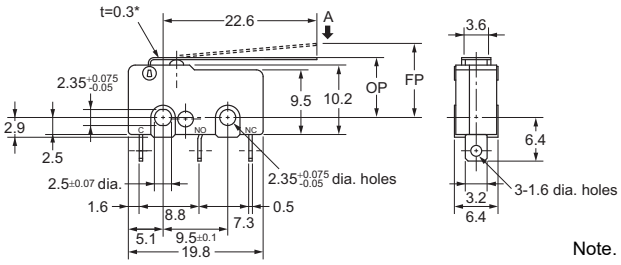
* Stainless-steel lever

Note. The indicated reference values of RF are for cases where the lever weight is not applied to the plunger.

Operating Characteristics		Model	SS-10GL	SS-5GL SS-01GL	SS-5GL-F SS-01GL-F	SS-01GL-E
Operating Force Releasing Force	OF RF	Max. Min.	0.49 N {50 gf} 0.06 N {6 gf}	0.49 N {50 gf} 0.06 N {6 gf}	0.16 N {16 gf} 0.02 N {2 gf}	0.08 N {8 gf} 0.01 N {1 gf} (reference value)
Overtravel Movement Differential	OT MD	Min. Max.	1.0 mm 1.0 mm	1.2 mm 0.8 mm	1.2 mm 0.8 mm	1.2 mm 0.8 mm
Free Position Operating Position	FP OP	Max.	13.6 mm 8.8±0.8 mm			

●Long hinge lever
SS-10GL111
SS-5GL111 (-F)
SS-01GL111 (-E, -F)
SS-5FL111-3





* Stainless-steel lever

Note. The indicated reference values of RF are for cases where the lever weight is not applied to the plunger.

Operating Characteristics		Model	SS-10GL111	SS-5GL111 SS-01GL111	SS-5FL111-3	SS-5GL111-F SS-01GL111-F	SS-01GL111-E
Operating Force Releasing Force	OF RF	Max. Min.	0.39 N {40 gf} 0.03 N {3 gf}	0.39 N {40 gf} 0.03 N {3 gf}	0.54 N {55 gf} 0.01 N {1 gf}	0.12 N {12 gf} 0.02 N {2 gf} (reference value)	0.06 N {6 gf} 0.003 N {0.3 gf} (reference value)
Overtravel Movement Differential	OT MD	Min. Max.	1.2 mm 1.2 mm	1.2 mm 1.2 mm	1.0 mm 3.0 mm	1.2 mm 1.2 mm	1.2 mm 1.2 mm
Free Position	FP	Max.	16.8 mm				
Operating Position	OP		8.8±1.5 mm				8.8±2 mm

Note 1. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.
Note 2. The operating characteristics are for operation in the A direction (⬇).

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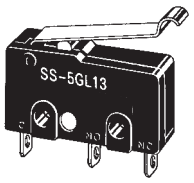
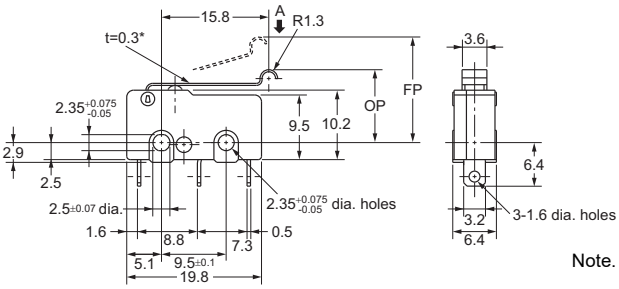
●Simulated roller lever
SS-10GL13
SS-5GL13 (-F)
SS-01GL13 (-E, -F)



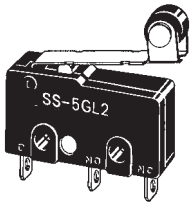


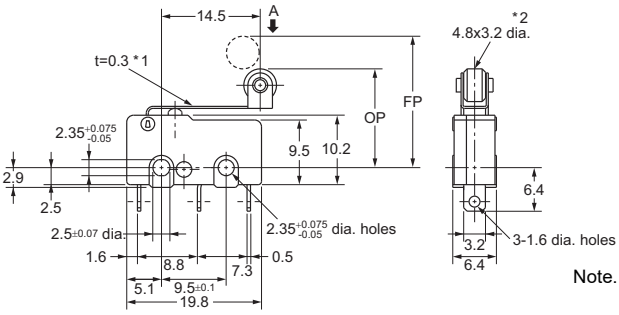
* Stainless-steel lever

Note. The indicated reference values of RF are for cases where the lever weight is not applied to the plunger.

Operating Characteristics		Model	SS-10GL13	SS-5GL13 SS-01GL13	SS-5GL13-F SS-01GL13-F	SS-01GL13-E
Operating Force Releasing Force	OF RF	Max. Min.	0.49 N {50 gf} 0.06 N {6 gf}	0.49 N {50 gf} 0.06 N {6 gf}	0.16 N {16 gf} 0.02 N {2 gf}	0.08 N {8 gf} 0.01 N {1 gf} (reference value)
Overtravel Movement Differential	OT MD	Min. Max.	1.0 mm 1.0 mm	1.2 mm 0.8 mm	1.2 mm 0.8 mm	1.2 mm 0.8 mm
Free Position Operating Position	FP OP	Max.	15.5 mm 10.7±0.8 mm			

●Hinge roller lever
SS-10GL2
SS-5GL2 (-F)
SS-01GL2 (-E, -F)





*1. Stainless-steel lever
*2. Polyacetal resin roller

Note. The indicated reference values of RF are for cases where the lever weight is not applied to the plunger.

Operating Characteristics		Model	SS-10GL2	SS-5GL2 SS-01GL2	SS-5GL2-F SS-01GL2-F	SS-01GL2-E
Operating Force Releasing Force	OF RF	Max. Min.	0.49 N {50 gf} 0.06 N {6 gf}	0.49 N {50 gf} 0.06 N {6 gf}	0.16 N {16 gf} 0.02 N {2 gf}	0.08 N {8 gf} 0.01 N {1 gf} (reference value)
Overtravel Movement Differential	OT MD	Min. Max.	1.0 mm 1.0 mm	1.2 mm 0.8 mm	1.2 mm 0.8 mm	1.2 mm 0.8 mm
Free Position Operating Position	FP OP	Max.	19.3mm 14.5±0.8mm			

Note 1. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.
Note 2. The operating characteristics are for operation in the A direction (⬇).

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Precautions

★Please refer to "Common Precautions" for correct use.

Cautions

●Soldering

- Complete the soldering at the iron tip temperature below 350°C within 5 seconds, and do not apply any external force for 1 minute after soldering. Soldering at an excessively high temperature or soldering for more than 5 seconds may deteriorate the characteristics of the Switch.
- Be sure to apply only the minimum required amount of flux. Switch may have contact failures if flux intrudes into the interior of the Switch.
- If the PCB terminal models are soldered in the solder bath, flux will permeate inside the Switch and cause contact failure. Therefore, manually solder the PCB terminal.

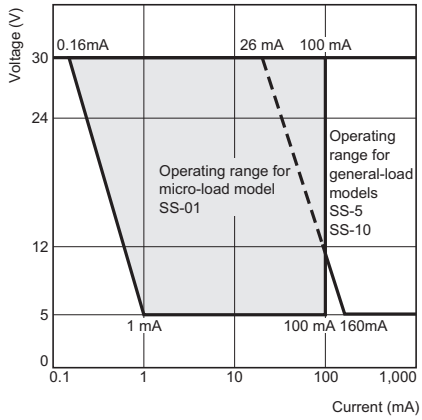
Correct Use

●Mounting

- Use M2.3 mounting screw with plane washers or spring washers to securely mount the Switch. Tighten the screws to a torque of 0.23 to 0.26 N·m {2.3 to 2.7 kgf·cm}.
- Mount the Switch onto a flat surface. Mounting on an uneven surface may cause deformation of the Switch, resulting in faulty operation or breakage in the housing.

●Using Micro Loads

Using a model for ordinary loads to open or close the contact of a micro load circuit may result in faulty contact. Use models that operate in the following range. However, even when using micro load models within the following operating range, if inrush current occurs when the contact is opened or closed, it may increase the contact wear and so decrease durability. Therefore, insert a contact protection circuit where necessary. The N-level reference value applies for the minimum applicable load. This value indicates the malfunction reference level for the reliability level of 60% (λ_{60}).
(JIS C5003)
The equation, $\lambda_{60}=0.5\times10^{-6}$/operation indicates that the estimated malfunction rate is less than $\frac{1}{2,000,000}$ operations with a reliability level of 60%.



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