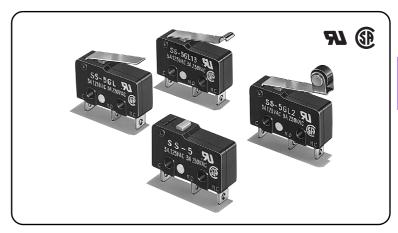
SS Subminiature Basic Switch

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.

RoHS Compliant



Model Number Legend

SS-1 2 3 4 5 6 1. Ratings 4. Contact form 10: 250 VAC 10.1A None: SPDT 5 : 125 VAC 5 A -2 : SPST-NC 01:30 VDC 0.1A -3 : SPST-NO 2. Actuator -5. Terminals None: Pin plunger None: Solder terminals GL: Hinge lever T: Quick-connect terminals (#110) GL111: Long hinge lever D: PCB terminals GL13: Simulated roller lever 6. Heat resistance GL2: Hinge roller lever None: Standard (85°C) GL02: Hinge roller lever -T : Heat-resistant (120°C) (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) Note. These values are for the pin plunger models.

-E : 0.25 N {25 gf} (0.1 A)

List of Models

Standard Models

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

			Ratings	40.4.4	5 A	0.4.4
Actuator	Terminals	Contact Form	Maximum Operating Force (OF)	10.1 A	5 A	0.1 A
		SPDT		SS-10GL	SS-5GL	SS-01GL
	Solder terminals	SPST-NC		SS-10GL-2	SS-5GL-2	SS-01GL-2
		SPST-NO		SS-10GL-3	SS-5GL-3	SS-01GL-3
	Quick-connect	SPDT SPST-NC	0.40 N (50 -£)	SS-10GLT	SS-5GLT	SS-01GLT
	terminals (#110)	SPST-NO	0.49 N {50 gf}	SS-10GL-2T	SS-5GL-2T SS-5GL-3T	SS-01GL-2T
		SPST-NO	_	SS-10GL-3T SS-10GLD	SS-5GL-31 SS-5GLD	SS-01GL-3T SS-01GLD
	PCB terminals	SPST-NC	-	SS-10GLD SS-10GL-2D	SS-5GL-2D	SS-01GLD
	POD terminais	SPST-NO	-	SS-10GL-2D SS-10GL-3D	SS-5GL-2D SS-5GL-3D	SS-01GL-2D
		SPDT			SS-5GL-5D	SS-01GL-5D
	Solder terminals	SPST-NC		-	SS-5GL-F-2	SS-01GL-F-2
	Golder terrification	SPST-NO		-	SS-5GL-F-3	SS-01GL-F-3
Hinge lever		SPDT	-	-	SS-5GL-FT	SS-01GL-FT
	Quick-connect	SPST-NC	0.16 N {16 gf}		SS-5GL-F-2T	SS-01GL-F-2T
~	terminals (#110)	SPST-NO			SS-5GL-F-3T	SS-01GL-F-3T
		SPDT			SS-5GL-FD	SS-01GL-FD
	PCB terminals	SPST-NC			SS-5GL-F-2D	SS-01GL-F-2D
		SPST-NO		-	SS-5GL-F-3D	SS-01GL-F-3D
		SPDT			-	SS-01GL-E
	Solder terminals	SPST-NC			-	SS-01GL-E-2
		SPST-NO		-	-	SS-01GL-E-3
	Quick-connect	SPDT		-	-	SS-01GL-ET
	Quick-connect terminals (#110)	SPST-NC	0.08 N {8 gf}	-	-	SS-01GL-E-2T
	terrificio (#110)	SPST-NO		-	-	SS-01GL-E-3T
		SPDT		-	-	SS-01GL-ED
	PCB terminals	SPST-NC		-	-	SS-01GL-E-2D
		SPST-NO		-	-	SS-01GL-E-3D
	0.11	SPDT		SS-10GL111	SS-5GL111	SS-01GL111
	Solder terminals	SPST-NC		SS-10GL111-2	SS-5GL111-2	SS-01GL111-2
		SPST-NO		SS-10GL111-3	SS-5GL111-3	SS-01GL111-3
	Quick-connect	SPDT	0.00 N (40f)	SS-10GL111T	SS-5GL111T	SS-01GL111T
	terminals (#110)	SPST-NC	0.39 N {40 gf}	SS-10GL111-2T	SS-5GL111-2T	SS-01GL111-2T
		SPST-NO		SS-10GL111-3T SS-10GL111D	SS-5GL111-3T SS-5GL111D	SS-01GL111-3T
	PCB terminals	SPDT SPST-NC	-	SS-10GL111D SS-10GL111-2D	SS-5GL111-2D	SS-01GL111D SS-01GL111-2D
	FOD terminais	SPST-NO	-	SS-10GL111-3D	SS-5GL111-3D	SS-01GL111-3D
		SPDT			SS-5GL111-5D	SS-01GL111-5D
	Solder terminals	SPST-NC		-	SS-5GL111-F-2	SS-01GL111-F-2
	Quick-connect terminals (#110)	SPST-NO	0.12 N {12 gf}	-	SS-5GL111-F-3	SS-01GL111-F-3
Long hinge lever		SPDT		-	SS-5GL111-FT	SS-01GL111-FT
		SPST-NC		-	SS-5GL111-F-2T	SS-01GL111-F-2T
9		SPST-NO		-	SS-5GL111-F-3T	SS-01GL111-F-3T
		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
		SPDT		-	-	SS-01GL111-E
	Solder terminals	SPST-NC		-	-	SS-01GL111-E-2
		SPST-NO		-	-	SS-01GL111-E-3
	Quick-connect	SPDT		•	-	SS-01GL111-ET
	terminals (#110)	SPST-NC	0.06 N {6 gf}	-	-	SS-01GL111-E-2T
	terrimais (#110)	SPST-NO		-	-	SS-01GL111-E-3T
		SPDT		-	-	SS-01GL111-ED
	PCB terminals	SPST-NC		-	-	SS-01GL111-E-2D
		SPST-NO		-	-	SS-01GL111-E-3D
	Coldt	SPDT		SS-10GL13	SS-5GL13	SS-01GL13
	Solder terminals	SPST-NC		SS-10GL13-2	SS-5GL13-2	SS-01GL13-2
		SPST-NO		SS-10GL13-3	SS-5GL13-3 SS-5GL13T	SS-01GL13-3
	Quick-connect	SPDT SPST-NC	0.49 N {50 gf}	SS-10GL13T SS-10GL13-2T	SS-5GL131 SS-5GL13-2T	SS-01GL13T SS-01GL13-2T
	terminals (#110)	SPST-NO	0.49 N (50 gi)	SS-10GL13-21 SS-10GL13-3T	SS-5GL13-21 SS-5GL13-3T	SS-01GL13-21
		SPDT		SS-10GL13-31	SS-5GL13-31	SS-01GL13-31
	PCB terminals	SPST-NC		SS-10GL13-2D	SS-5GL13-2D	SS-01GL13D SS-01GL13-2D
	. OD tomiliais	SPST-NO		SS-10GL13-2D	SS-5GL13-3D	SS-01GL13-2D
		SPDT		-	SS-5GL13-5D	SS-01GL13-5D
	Solder terminals	SPST-NC		-	SS-5GL13-F-2	SS-01GL13-F-2
		SPST-NO		-	SS-5GL13-F-3	SS-01GL13-F-3
Simulated roller lever	Oui-lea-	SPDT		-	SS-5GL13-FT	SS-01GL13-FT
~	Quick-connect	SPST-NC	0.16 N {16 gf}	-	SS-5GL13-F-2T	SS-01GL13-F-2T
<u>~</u>	terminals (#110)	SPST-NO	, ,,	-	SS-5GL13-F-3T	SS-01GL13-F-3T
		SPDT		-	SS-5GL13-FD	SS-01GL13-FD
	PCB terminals	SPST-NC		-	SS-5GL13-F-2D	SS-01GL13-F-2D
		SPST-NO		-	SS-5GL13-F-3D	SS-01GL13-F-3D
		SPDT		-	-	SS-01GL13-E
	Solder terminals	SPST-NC		-	-	SS-01GL13-E-2
		SPST-NO		-	-	SS-01GL13-E-3
	Quick-connect	SPDT		•	-	SS-01GL13-ET
	terminals (#110)	SPST-NC	0.08 N {8 gf}	•	-	SS-01GL13-E-2T
	("110)	SPST-NO		-	-	SS-01GL13-E-3T
	DOD:	SPDT SPST-NC		-	-	SS-01GL13-ED
	PCB terminals	COCINC		-	· -	SS-01GL13-E-2D
	POB terminais	SPST-NO		-	-	SS-01GL13-E-3D

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

			Ratings	40.4.4	5 A	0.4.4
Actuator	Terminals	Contact Form	Maximum Operating Force (OF)	10.1 A	5 A	0.1 A
		SPDT		SS-10GL2	SS-5GL2	SS-01GL2
	Solder terminals	SPST-NC		SS-10GL2-2	SS-5GL2-2	SS-01GL2-2
		SPST-NO		SS-10GL2-3	SS-5GL2-3	SS-01GL2-3
	Quick-connect	SPDT		SS-10GL2T	SS-5GL2T	SS-01GL2T
		SPST-NC	0.49 N {50 gf}	SS-10GL2-2T	SS-5GL2-2T	SS-01GL2-2T
	terminals (#110)	SPST-NO		SS-10GL2-3T	SS-5GL2-3T	SS-01GL2-3T
		SPDT		SS-10GL2D	SS-5GL2D	SS-01GL2D
	PCB terminals	SPST-NC		SS-10GL2-2D	SS-5GL2-2D	SS-01GL2-2D
		SPST-NO		SS-10GL2-3D	SS-5GL2-3D	SS-01GL2-3D
		SPDT		-	SS-5GL2-F	SS-01GL2-F
	Solder terminals	SPST-NC	0.16 N {16 gf}	-	SS-5GL2-F-2	SS-01GL2-F-2
Hinge roller lever		SPST-NO		-	SS-5GL2-F-3	SS-01GL2-F-3
90 .00	Ouiels compact	SPDT		-	SS-5GL2-FT	SS-01GL2-FT
Q	Quick-connect terminals (#110)	SPST-NC		-	SS-5GL2-F-2T	SS-01GL2-F-2T
~	terminais (#110)	SPST-NO		-	SS-5GL2-F-3T	SS-01GL2-F-3T
		SPDT		-	SS-5GL2-FD	SS-01GL2-FD
	PCB terminals	SPST-NC		-	SS-5GL2-F-2D	SS-01GL2-F-2D
		SPST-NO		-	SS-5GL2-F-3D	SS-01GL2-F-3D
		SPDT		-	-	SS-01GL2-E
	Solder terminals	SPST-NC		-	-	SS-01GL2-E-2
		SPST-NO		-	-	SS-01GL2-E-3
	Quick-connect	SPDT		-	-	SS-01GL2-ET
	terminals (#110)	SPST-NC	0.08 N {8 gf}	-	-	SS-01GL2-E-2T
	terrinals (#110)	SPST-NO		-	-	SS-01GL2-E-3T
		SPDT		-	-	SS-01GL2-ED
	PCB terminals	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
Actuator	Solder terminals	ContactForm	Maximum Operating Force (OF)	SS-10-T	SS-5-T	SS-01-T
Pin plunger	Quick-connect		1.47 N {150 gf}	SS-10T-T	SS-5T-T	SS-01T-T
	PCB terminals			SS-10D-T	SS-5D-T	SS-01D-T
	Solder terminals		0.49 N {50 gf}	SS-10GL-T	SS-5GL-T	SS-01GL-T
Hinge lever	Quick-connect terminals (#110)			SS-10GLT-T	SS-5GLT-T	SS-01GLT-T
	PCB terminals			SS-10GLD-T	SS-5GLD-T	SS-01GLD-T
	Solder terminals			SS-10GL111-T	SS-5GL111-T	SS-01GL111-T
Long hinge lever	Quick-connect terminals (#110)	SPDT	0.39 N {40 gf}	SS-10GL111T-T	SS-5GL111T-T	SS-01GL111T-T
	PCB terminals			SS-10GL111D-T	SS-5GL111D-T	SS-01GL111D-T
	Solder terminals			SS-10GL13-T	SS-5GL13-T	SS-01GL13-T
Simulated roller lever	Quick-connect terminals (#110)		0.49 N {50 gf}	SS-10GL13T-T	SS-5GL13T-T	SS-01GL13T-T
	PCB terminals			SS-10GL13D-T	SS-5GL13D-T	SS-01GL13D-T
10 0 1	Solder terminals			SS-10GL02-T	SS-5GL02-T	SS-01GL02-T
Hinge roller lever (Roller material:	Quick-connect terminals (#110)		0.49 N {50 gf}	SS-10GL02T-T	SS-5GL02T-T	SS-01GL02T-T
stainless steel)	PCB terminals			SS-10GL02D-T	SS-5GL02D-T	SS-01GL02D-T

Contact Form

●SPDT ●SPST-NC ●SPST-NO COM NO NC COM NC COM NO

Contact Specifications

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

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

Ratings

	Item	Resistive load
Model	Rated voltage	riesistive load
SS-10 models	250 VAC	10.1 A
SS-5 models	125 VAC	5 A
33-5 models	250 VAC	3 A
SS-01 models	125 VAC	0.1 A
33-01 models	30 VDC	0.1 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 (UL1054)/CSA (CSA C22.2 No.55)

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

Consult your OMRON sales representative for specific models with VDE standard approvals. **VDE (EN61058-1)**

Rated voltage	Model	SS-10	SS-5
250 VAC		10 A	5 A

Testing conditions: 5E4 (50,000 operations)

T85 (0°C to 85°C)

Characteristics

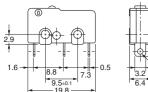
Item	tem Mode		SS-10 models	SS-5 models	SS-01 models	
Permissible op	erating speed		0.1 mm to 1 m/s (for pin plunger models)			
Permissible	Mechanical		400 operations/min			
operating frequency	Electrical		60 op	erations/min		
Insulation resis	stance		100 MΩ min. (at 500	VDC with insulati	on tester)	
		OF 1.47 N models	30 mΩ max		50 m $Ω$ max.	
Contact resista value)	ance (initial	OF 0.49 N models	=	50 mΩ max.	100 mΩ max.	
value)		OF 0.25 N models	-		150 mΩ max.	
Dielectric	Between terminals of the same polarity		1,000 VAC 50/60 Hz	for 1 min	600 VAC 50/60 Hz for 1 min	
strength *1	Between currer parts and groun	nt-carrying metal ad	1,500 VAC	50/60 Hz for 1 mir	ı	
	Between each t current-carrying	erminals and non- metal parts	1,500 VAC 50/60 Hz for 1 min			
Vibration resistance *2	Malfunction		10 to 55 Hz, 1.5 mm double amplitude			
		OF 1.47 N models	1,000 m/s ² {approx. 100G} max.			
	Durability	OF 0.49 N models	•	pprox. 50G} max.		
Shock		OF 0.25 N models	500 m/s ² {approx. 50G} max.			
resistance		OF 1.47 N models	300 m/s ² {approx. 30G} max.			
	Malfunction *2	OF 0.49 N models	,	approx. 20G} max.		
		OF 0.25 N models	•	pprox. 20G} max.		
Durability *3	Mechanical		10,000,000 operations min. (60 operations/min)		perations min. tions/min)	
	Electrical		50,000 operations min. 200,000 operations min. (30 operations/min) (30 operations/min)			
Degree of prot	ection		II.	EC IP40		
Degree of protection against electric shock				Class I		
Proof tracking index (PTI)			175			
Ambient opera	ting temperature		-25°C to +85°C (at ambient humidity of 60% max.) (with no icing or condensation)			
Ambient opera	ting humidity		85% max. (for +5°C to +35°C)			
Weight			Approx. 1.6g (pin plunger models)			

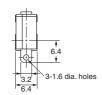
Note. The data given above are initial values.

- The values for dielectric strength shown are for models with a Separator (refer to "Micro Switch Common Accessories").
- 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. For testing conditions, consult your OMRON sales representative.

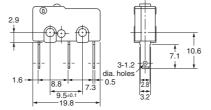
Terminals/Appearances (Unit: mm)

Solder terminals

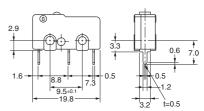




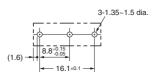
●Quick connect terminals (#110)



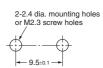
●PCB terminals



<PCB Mounting Dimensions (Reference)>



Mounting Holes (Unit: mm)



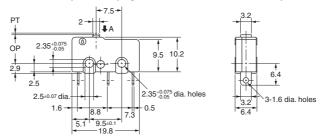
Dimensions (Unit: mm) and Operating Characteristics

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)

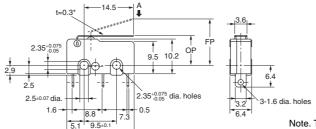




Operating Characterist	tics	Model	SS-10	SS-5 SS-01	SS-5-F SS-01-F	SS-01-E
Operating Force	OF	Max.	1.47 N {150 gf}	1.47 N {150 gf}	0.49 N {50 gf}	0.25 N {25 gf}
Releasing Force	RF	Min.	0.25 N {25 gf}	0.25 N {25 gf}	0.04 N {4 gf}	0.02 N {2 gf}
Pretravel	PT	Max.	0.6 mm	0.5 mm	0.5 mm	0.5 mm
Overtravel	OT	Min.	0.4 mm	0.5 mm	0.5 mm	0.5 mm
Movement Differential	MD	Max.	0.12 mm	0.1 mm	0.1 mm	0.1 mm
Operating Position	OP			8.4±0.	5 mm	

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



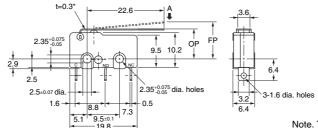


Note. The indicated reference values of RF are for cases where the lever weight is not applied to the plunger.

Operating Characteris	tics	Model	SS-10GL	SS-5GL SS-01GL	SS-5GL-F SS-01GL-F	SS-01GL-E		
Operating Force	OF	Max.	0.49 N {50 gf}	0.49 N {50 gf}	0.16 N {16 gf}	0.08 N {8 gf}		
Releasing Force	RF	Min.	0.06 N {6 gf}	0.06 N {6 gf}	0.02 N {2 gf}	0.01 N {1 gf}		
						(reference value)		
Overtravel	ОТ	Min.	1.0 mm	1.2 mm	1.2 mm	1.2 mm		
Movement Differential	MD	Max.	1.0 mm	0.8 mm	0.8 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)





* Stainless-steel lever

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

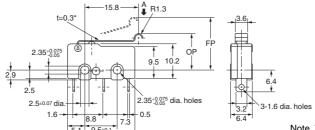
Operating Characteris	tics	Model	SS-10GL111	SS-5GL111 SS-01GL111	SS-5GL111-F SS-01GL111-F	SS-01GL111-E	
Operating Force Releasing Force	OF RF	Max. Min.	0.39 N {40 gf} 0.03 N {3 gf}	0.39 N {40 gf} 0.03 N {3 gf}	0.12 N {12 gf} 0.02 N {2 gf} (reference value)	0.06 N {6 gf} 0.003 N {0.3 gf} (reference value)	
Overtravel Movement Differential	OT MD	Min. Max.	1.2 mm 1.2 mm	1.2 mm 1.2 mm	1.2 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	l	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 (\P).

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



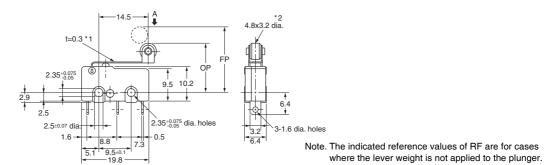


Note. The indicated reference values of RF are for cases where the lever weight is not applied to the plunger.

Model Operating Characteristics			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	OT	Min.	1.0 mm	1.2 mm	1.2 mm	1.2 mm	
Movement Differential	MD	Max.	1.0 mm	0.8 mm	0.8 mm	0.8 mm	
Free Position	FP	Max.	15.5 mm				
Operating Position	OP		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

* Stainless-steel lever

Model Operating Characteristics			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	OT	Min.	1.0 mm	1.2 mm	1.2 mm	1.2 mm	
Movement Differential	MD	Max.	1.0 mm	0.8 mm	0.8 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 (♣).

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

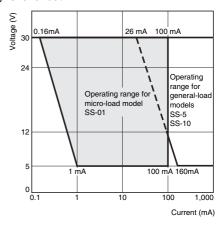
- Use M2.3 mounting screw with plane washers or spring washers to securely mount the Switch. Tighten the screws to a torque of 0.23 to 0.26 N·m {2.3 to 2.7 kgf·cm}.
- Mount the Switch onto a flat surface. Mounting on an uneven surface may cause deformation of the Switch, resulting in faulty operation 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% $(\lambda \mbox{60}).$

(JIS C5003)

The equation, λ_{60} =0.5×10-6/operation indicates that the estimated malfunction rate is less than $\frac{1}{2,000,000}$ operations with a reliability level of 60%.



Note: Do not use this document to operate the Unit.

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Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
 Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad

[•] Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.