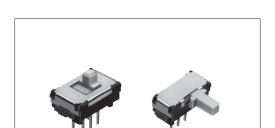
Mid-size general purpose type well established for user friendliness





■ Typical Specifications

Ite	ms	Specifications		
Rating (max.)/(mi	n.) (Resistive load)	0.1A 12V DC / 1mA 5V DC		
Contact resistand (Initial performand	-	$30m\Omega$ max. / $80m\Omega$ max.		
Operating force		2-position	3-position	
Operating force		$3\pm 1.5N$ a, $c \rightarrow b 2\pm 1N$ b \rightarrow a, c $3\pm 1.5N$		
Operating life	Without load	10,000 cycles		
Operating life	With load	10,000 cycles	(0.1A 12V DC)	

Product Line

Travel	Actuator	Actuator	Poles	Positions	Mounting	Changeover	Soldering	Minimum ord	er unit (pcs.)	Products No.	Drawing
(mm)	direction	length (mm)	1 0100	1 GOILIONG	method	timing	Coldering	Japan	Export		No.
				2	Standard	Non shorting				SSSS912000	1
			1		Snap-in (t1.6)					SSSS910400	2
		2		3	Standard	Not specified		1,000	5,000	SSSS919500	3
		_			Snap-in (t1.6)	140t apcomed				SSSS918500	4
			2	2		Non shorting				SSSS922000	5
				3	Standard	Not specified		800	4,000	SSSS921800	6
	Vertical			2		Non oborting]			SSSS912500	1
			١,		Snap-in (t1.6)	Non shorting				SSSS910800	2
			1	3	Standard	Not specified]	1,000	5,000	SSSS919800	3
		4		3	Snap-in (t1.6)	Not specified				SSSS918700	4
				2	Standard	Non shorting]			SSSS922500	5
			2	3	Stariuaru	Not specified	Manual, Dip	800	4,000	SSSS923200	6
2					Snap-in (t1.6)	Not specified				SSSS920600	7
2		2	1	2	Standard	Non shorting				SSSS916900	8
					Snap-in (t1.6)	I NOTESTIOLING		1,000	5,000	SSSS915001	9
				3		Not specified		1,000	3,000	SSSS91B900	10
				2	Ohamaland	Non shorting				SSSS926400	12
			2	3	Standard	Not specified		800	4,000	SSSS928500	14
				0		Niero elecutiono				SSSS916400	8
	Horizontal		,	2	Snap-in (t1.6)	Non shorting				SSSS914503	9
			1		Standard			1.000		SSSS91B600	10
				3	Snap-in (t1.6)	Not specified		1,000	5,000	SSSS91A601	11
		4		_	Standard		1			SSSS925800	12
				2	Snap-in (t1.6)	Non shorting				SSSS923802	13
			2	_	Standard					SSSS928200	14
				3	Snap-in (t1.6)	Not specified		800	4,000	SSSS925701	15

Packing Specifications

Products No.	Number of pa 1 case / Japan	ckages (pcs.) 1 case / export packing	Export package measurements (mm)
SSSS921800, SSSS923200, SSSS920600, SSSS928500, SSSS928200, SSSS925701	800	4,000	
SSSS912000, SSSS910800, SSSS926400, SSSS910400, SSSS919800, SSSS916400, SSSS919500, SSSS918700, SSSS914503, SSSS918500, SSSS922500, SSSS91B600, SSSS922000, SSSS916900, SSSS91A601, SSSS912500, SSSS915001, SSSS925800, SSSS91B900, SSSS923802	1,000	5,000	400×270×290

Dimensions

Vertical Actuator Type

Unit:mm

No.	Style Style	PC board mounting hole dimensions (Viewed from direction A)
1	1-pole, 2-position Standard type PC board mounting face PC board mounting face 1.5 1.5 1.5 1.5 1.7 1.7 1.7 1.7	3-ø0.7 hole 2 2
2	1-pole, 2-position Snap-in type PC board mounting face PC board mou	1.5 2 2 1.5 3-ø0.7 hole
3	1-pole, 3-position Standard type PC board mounting face PC board mounting face Terminal No. 1 2224 A A A A A A A A A A A A A A A A A	4-e0.7 hole 2 2 4

Dimensions

Vertical Actuator Type PC board mounting hole dimensions (Viewed from direction A) No. Style 1-pole, 3-position Snap-in type 1.5 4 4-ø0.7 hole Terminal No.1 2-pole, 2-position Standard type 6-ø0.7 hole 5 PC board mounting face Terminal No. 1 Α 2-pole, 3-position Standard type 8-ø0.7 hole 6 Terminal No.1 2-pole, 3-position Snap-in type PC board mounting face 7 Terminal No.1

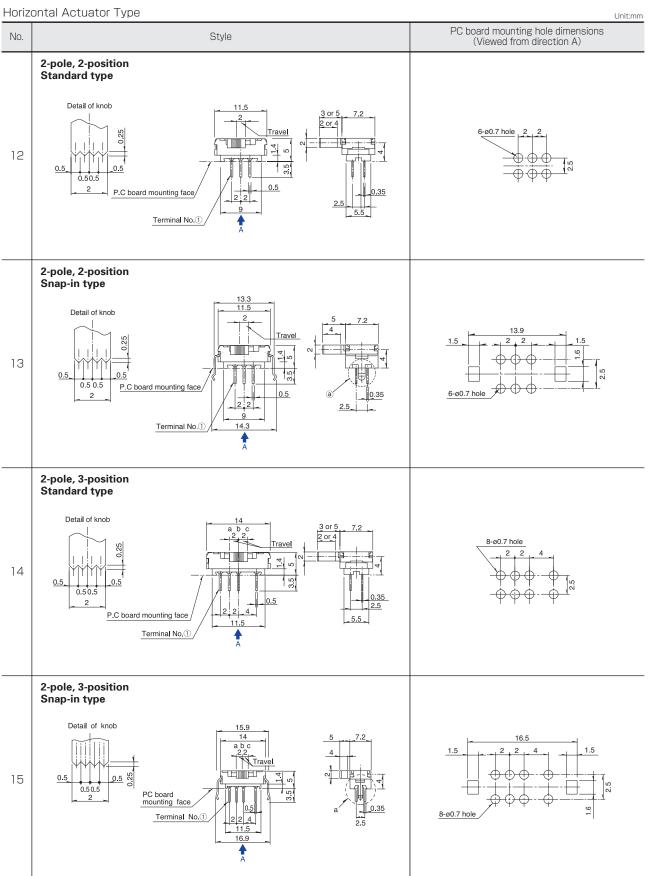


Dimensions

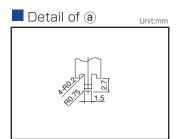
Horizontal Actuator Type Unit:mm PC board mounting hole dimensions (Viewed from direction A) Style No. 1-pole, 2-position Standard type Detail of knob 3 or 5 2 or 4 3-ø0.7 hole 8 0.5 PC board mounting face 3.7 Terminal No.1 11.5 1-pole, 2-position Snap-in type Detail of knob 13.9 9 3.5 3-ø0.7 hole 0.5 0.5 PC board mounting face 0.35 Terminal No.1 14.3 1-pole, 3-position Standard type Detail of knob Travel 4-ø0.7 hole 10 0.50.5 0.35 PC board mounting face 11.5 Terminal No.1 1-pole, 3-position Snap-in type Detail of knob 3 or 5 11 0.5 0.5 4-ø0.7 hole 0.35 P.C board mounting face Terminal No.1



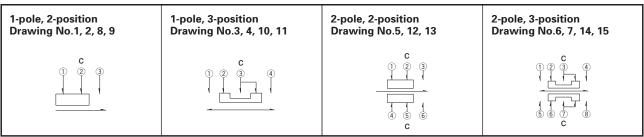
Dimensions







■ Circuit Diagram (Viewed from Direction A)



	Series		SSSS2*	SSSS9	SSAC	SSSF	SSSU	
Photo								
Actuat	Actuator direction		•	•	•	•	•	
direction			•	•	_	•	•	
		1-2	•	•	_	•	•	
		1-3	•	•	_	•	•	
		1-4	•	_	_	_	_	
Poles-pos	itions	2-2	•	•	•	•	•	
		2-3	•	•	•	•	•	
		2-4	•	_	_	_	_	
		4-2	_	_	_	•	•	
Т	ravel (mm)	2	2	1.5	2	3	
Operating	temperat	ure range	−40°C t	o +85°C	-10°C to +60°C	-40℃ t	o +85℃	
Aut	Automotive use		_	_	_	_	_	
	Life cycle		*3	*3	* 3	*3	*3	
Ra (Re	ating (max esistive loa	i.) ad)	0.3A 6V DC	0.1A 12V DC	1mA 5V DC	0.1A 30V DC		
	ating (min sistive loa		50μA 3V DC	1mA 5V DC	50μA 3V DC	10μA 1V DC		
	Operating life without load		10,000 cycles 100mΩ max.*	10,000 cycles 60mΩ max.	10,000 cycles	$10,\!000$ cycles $45\mathrm{m}\Omega$ max.		
Durability	Operating life with load Load: as rating		10,000 cycles 130mΩ max.*	10,000 cycles 80mΩ max.	200mΩ max.	10,000 cycles 65mΩ max.		
		contact stance	70mΩ max.	30mΩ max.	100mΩ max.	25mΩ) max.	
Electrical performance	Insulation	n resistance	100MΩ min. 500V DC		100MΩ min. 100V DC	100MΩ min. 500V DC		
	Volta	ge proof	500V AC for 1minute		100V AC for 1minute	500V AC for 1minute		
	Termina	al strength	3N for	lminute	5N for 1minute			
Mechanical performance	Actuator	Operating direction	20N	30N	ENI	00	201	
	strength	Pulling direction	10	ON	- 5N	30	ON	
	(Cold	-20℃ 500h	-40℃ 500h	-20°C 96h	-40°C 500h		
Environmental performance	Dry	y heat	85°C	500h	85°C 96h	85°C 500h		
	Dam	np heat	60°C, 90 to 9	95%RH 500h	40°C, 90 to 95%RH 96h	60°C, 90 to 95%RH 500h		
	Page		92	97	103	105	109	

Notes

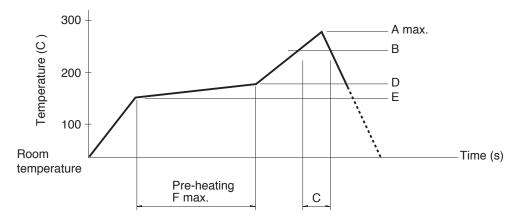
- 1. * Operating life for SSSS213202 is 100 cycles.
- 2. Indicates applicability to all products in the series.

Example of Reflow Soldering Condition

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 CA (K) or CC (T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.

Slide Switches Soldering Conditions

3. Temperature profile



Series (Reflow type)		A (℃) 3s max.	B (°C)	C (s)	D (°C)	E (℃)	F(s)	
	Vertical 1-pole, 3-position							
SSSS2	SSSS2 Horizontal	1-pole, 2-position 1-pole, 3-position 2-pole, 3-position	260	- 230	40	180	150	120
	Vertical	1-pole, 2-position	250					
SSSS7		250	:50					
SSAH, SSAG, SSAJ, SSAL, SSSS8		260						

Notes

- 1. The condition mentioned above is the temperature on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the PC board's material, size, thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.
- 2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

■ Reference for Hand Soldering

Series	Soldering temperature	Soldering time		
SSSF, SSSU	350±10°C	3+1/0s		
SSSS2	350±10℃	4s max.		
SSSS9	350±10℃	3s max.		
SSAH, SSAG, SSAJ, SSAL	350±5℃	3s max.		
SSSS8	330±5℃	3s max.		
SSSS7	320±5℃	3s max.		
SSAC	300±10°C	2s max.		

Reference for Dip Soldering (For PC board terminal types)

Series	Ite	ms	Dip soldering		
Oeiles	Preheating temperature	Preheating time	Soldering temperature	Duration of immersion	
SSSS2	100°C max.	100°C max. 60s max.		3±1s	
SSSS9	120°C max.	60s max.	260±5℃	5+0/-1s (2 times)	
SSSF, SSSU	100°C max.	60s max.	260±5℃	10±1s/5±1s	
SSAC	100℃ max.	60s max.	260±5℃	5±1s	



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ALPS:

SSSS920600	SSSS910800	SSSS918500	SSSS910400	SSSS918700	SSSS922500	SSSS922000	SSSS926400
SSSS912500	SSSS919800	SSSS921800	SSSS925800	SSSS916900	SSSS912000	SSSS928500	SSSS923200
SSSS91B900	SSSS916400	SSSS919500	SSSS91B600	SSSS928200	SSSS91A601	SSSS923802	SSSS925701
SSSS915001	SSSS914503						