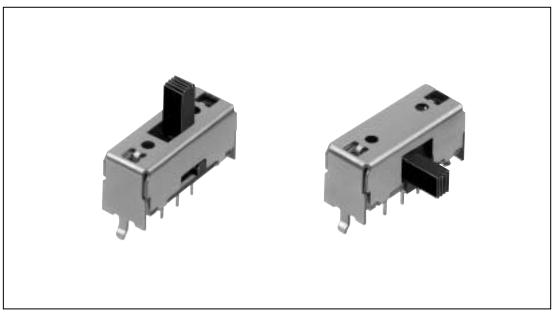
Slide Switch

8.5(H)mm, 3mm-travel Type

SSSU Series

RoHS compliant

Large-size general purpose type with various knobs.



Typical Specifications

Items		Specifications
Rating (max.) / (min.) (Resistive load)		0.1A 30V DC/50μA 3V DC
Contact resistance (Initial performance/After lifetime)		25mΩ max./65mΩ max.
Operating force		Refer to the dimensions.
Operating life	Without load	10,000cycles
	With load	10,000cycles (0.1A 30V DC)

Product Line

Travel (mm)	Actuator direction	Actuator length (mm)	Poles	Positions	Mounting method	Changeover timing	Soldering	Minimum order unit (pcs.)	Products No.	Drawing No.
3	Vertical	6	1	2	Snap-in (t1.6)	Non shorting	Manual, Dip	2,000	SSSU011700	1
		9							SSSU012200	
		6		3				2,500	SSSU014800	2
		9							SSSU015100	
		6	2	2				2,000	SSSU022400	3
		9							SSSU022800	
		6		3				2,500	SSSU025800	4
		9							SSSU026300	
		6	4	2					SSSU041700	5
		9							SSSU042100	
	Horizontal	6	1					3,500	SSSU111400	6
				3				2,500	SSSU113200	7
		9	2	2				3,500	SSSU121700	8
									SSSU122200	
				3				2,000	SSSU124900	9

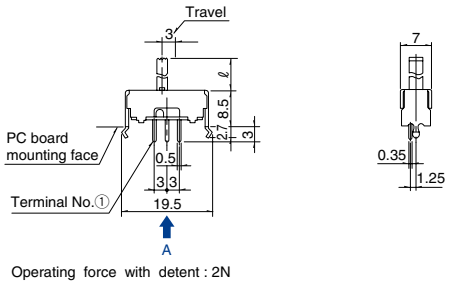
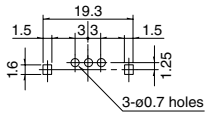
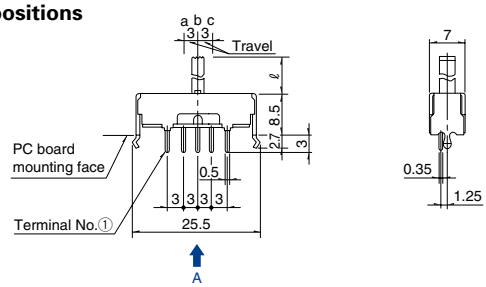
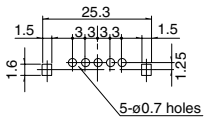
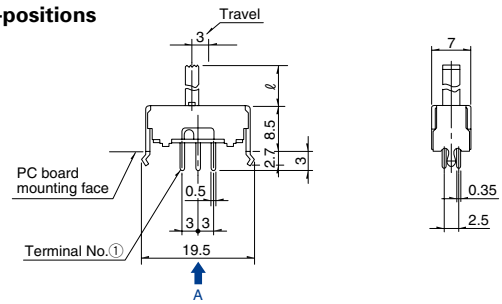
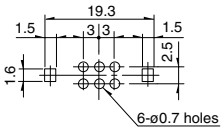
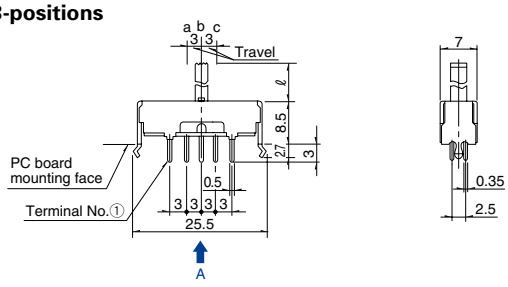
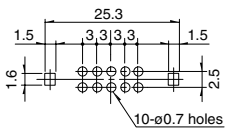
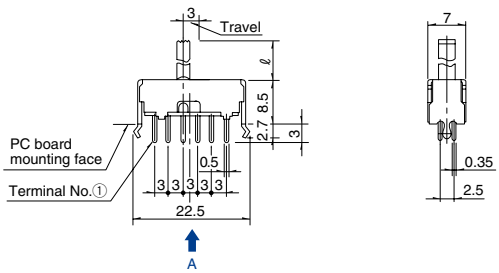
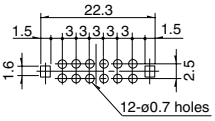
Notes

1. Products other than those listed in the above chart are also available. Please contact us for details.
2. Please contact us for automotive use.
3. Please place purchase orders per minimum order unit(integer).

Dimensions

Vertical Actuator Type

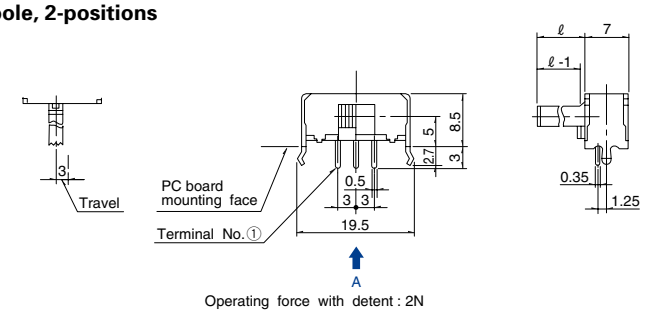
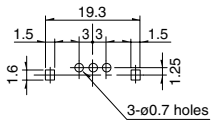
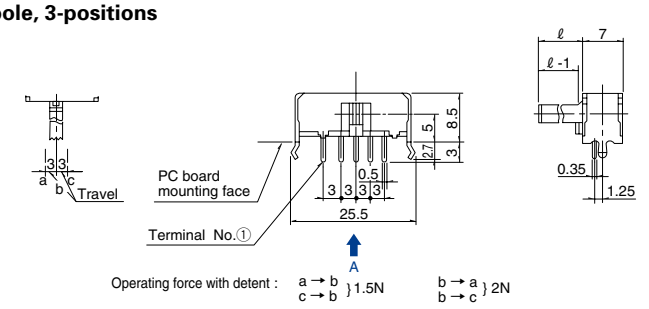
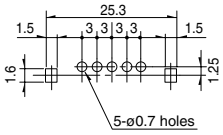
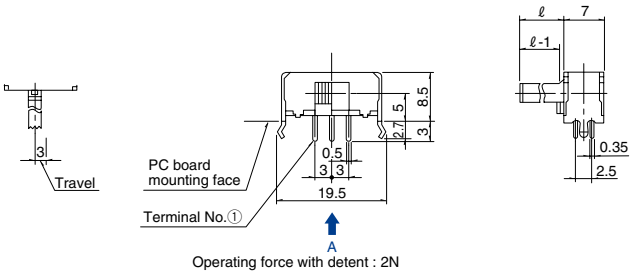
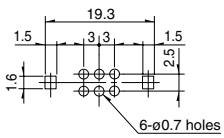
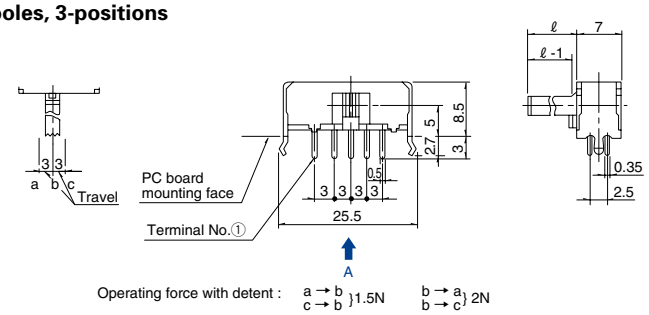
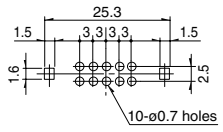
Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
1	**1-pole, 2-positions**  Operating force with detent : 2N	
2	**1-pole, 3-positions**  Operating force with detent : a → b, c → b }1.5N b → a, b → c }2N	
3	**2-poles, 2-positions**  Operating force with detent : 2N	
4	**2-poles, 3-positions**  Operating force with detent : a → b, c → b }1.5N b → a, b → c } 2N	
5	**4-poles, 2-positions**  Operating force with detent : 2N	

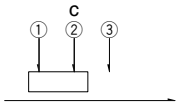
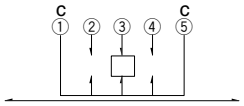
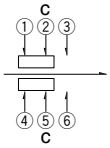
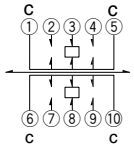
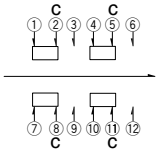
Dimensions

Horizontal Actuator Type

Unit:mm

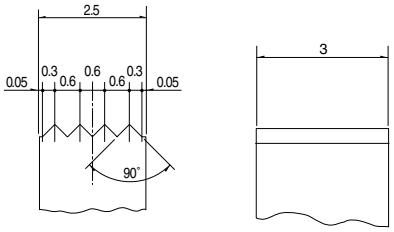
No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
6	**1-pole, 2-positions** 	
7	**1-pole, 3-positions** 	
8	**2-poles, 2-positions** 	
9	**2-poles, 3-positions** 	

Circuit Diagram (Viewed from Direction A)

1-pole, 2-positions	1-pole, 3-positions	2-poles, 2-positions	2-poles, 3-positions	4-poles, 2-positions
				

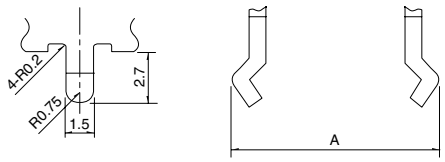
Actuator Configuration

Unit:mm



Shape of Frame Leg

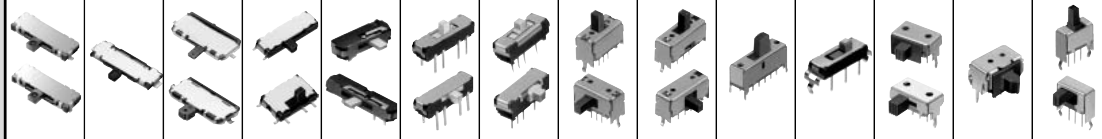
Unit:mm



Pole - position	A	
	Vertical	Horizontal
1 - 2	19.5	19.5
1 - 3	25.5	25.5
2 - 2	19.5	19.5
2 - 3	25.5	25.5
4 - 2	22.5	22.5

Thickness of PC board t=1.6

List of Varieties

Series			SSAG	SSAH	SSAD	SSSS8	SSSS7 ※	SSSS2	SSSS9 ※	SSSF ※	SSSU ※	SSSB	SSST	SSAA ※	SSAC	SSAB
Photo																
Outline specifications	Travel (mm)		1.5			1.5 2		2			3	4		2	1.5	1.9 2
	Actuator direction		Horizontal			Vertical Horizontal	Horizontal	Vertical Horizontal				Vertical		Horizontal		Vertical Horizontal
	Number of poles		1			1 2				1 2 4		2 4	1	1 2	2	1
Dimensions (mm)	W		9.05	9.5	6.7	11.2	8.8	13	14	16.5	24.5	29	13	12.4	9.5	9
	D		3		3.2	2.6	3	3.5	4.7	7		9	4.3	6	5.5	4.2
	H		1.15	0.9	0.7	1.4	2		5	8.5		12	3.5	5	5.2	8.5
Operating temperature range			−10℃ to +60℃			−40℃ to +85℃	−10℃ to +60℃									
Rating (max.)/(min.) (Resistive load)			10mA 5V DC	1mA 5V DC		0.3A 4V DC		0.3A 6V DC	0.1A 12V DC	0.1A 30V DC		0.3A 30V DC	0.1A 12V DC	0.1A 30V DC	1mA 5V DC	0.1A 12V DC
			50μA 3V DC													
Electrical performance	Initial contact resistance		200mΩ max.		100mΩ max.	70mΩ max.			30mΩ max.	25mΩ max.		20mΩ max.	70mΩ max.	25mΩ max.	100mΩ max.	30mΩ max.
	Insulation resistance		100MΩ min. 100V DC			100MΩ min. 500V DC									100MΩ min. 100V DC	100MΩ min. 500V DC
	Voltage proof		100V AC for 1minute			500V AC for 1minute									100V AC for 1minute	500V AC for 1minute
Mechanical performance	Robustness of terminal		3N for 1minute							5N for 1minute			3N for 1minute	5N for 1minute		
	Robustness of actuator	Operating direction	10N		5N	10N		20N	30N			50N	20N	10N	5N	30N
		Pulling direction				10N Static force			10N	30N Static force			10N			40N
Durability	Operating life without load		10,000cycles 500mΩ max.	10,000cycles 300mΩ max.	10,000cycles 100mΩ max.※2				10,000cycles 60mΩ max.	10,000cycles 45mΩ max.		10,000cycles 40mΩ max.	10,000cycles 100mΩ max.	10,000cycles 45mΩ max.	10,000cycles 200mΩ max.	1,000cycles 60mΩ max.
	Operating life without load Load:as rating				10,000cycles 200mΩ max.	10,000cycles 130mΩ max.※2			10,000cycles 80mΩ max.	10,000cycles 65mΩ max.		5,000cycles 60mΩ max.	10,000cycles 130mΩ max.	10,000cycles 65mΩ max.		10,000cycles 80mΩ max.
Environmental performance	Cold		−40±2℃ for 96h	−20±2℃ for 96h												
	Dry heat		85±2℃ for 96h													
	Damp heat		40±2℃, 90 to 95%RH for 96h													
Soldering	Manual soldering		350±5℃ 3s max.		300±5℃ 5s max.		260±5℃ 3s max.	350±10℃ 4s max.	300±10℃ 5s max.	350±10℃ 5s max.	350±10℃ 3^{+1}_{0}s		350±10℃ 3s max.	300±10℃ 3^{+1}_{0}s	300±10℃ 2s	350±10℃ 3^{+1}_{0}s
	Dip soldering		———					260±5℃ 3±1s	260±5℃ 5^{0}_{-1}s		260±5℃ 10±1s		260±5℃ 5^{0}_{-1}s	260±10℃ 10±1s	260±10℃ 5±1s	260±5℃ 10±1s
	Reflow soldering		Please see P.154						———							
Poles-positions	1-2		—	—	●	●	●	●	●	●	●	—	●	●	—	●
	1-3		●	●	—	●	●	●	●	●	●	—		●	—	
	1-4		———			●	—	●	———							
	2-2		———			●	—	●	●	●	●	●	—	●	●	—
	2-3		———			●	—	●	●	●	●	●	—	●	●	—
	2-4		———					●	———							
	4-2		———							●	●	●	———			
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Note

※The operating temperature range for automotive applications can be raised upon request. Please contact us for requirements of this kind.