

Detector Switch

Compact Micro Switch Type

SSCU Series



Micro switch type for detecting very low currents.

Detector

Push

Slide

Rotary

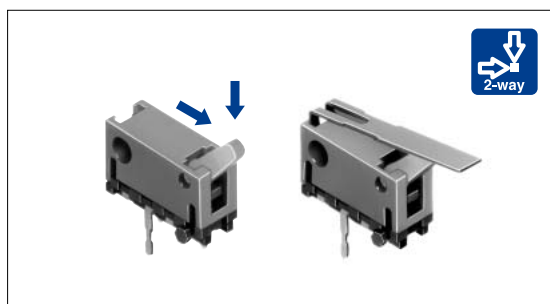
Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products



Typical Specifications

Items		Specifications
Rating (max.) (min.) (Resistive load)		0.1A 12V DC/50μA 3V DC
Contact resistance (Initial /After operating life)		70mΩ max./100mΩ max.
Operating force		0.5N max.
Operating life	Without load	10,000cycles
	With load	10,000cycles (0.1A 12V DC)

Product Line

Poles	Positions	Changeover timing	Operation mode	Terminal type	Minimum order unit (pcs)	Product No.	Drawing No.
1	2	Non shorting	Lever	For PC board	9,000	SSCUL10200	1
			Actuator			SSCUA10200	2

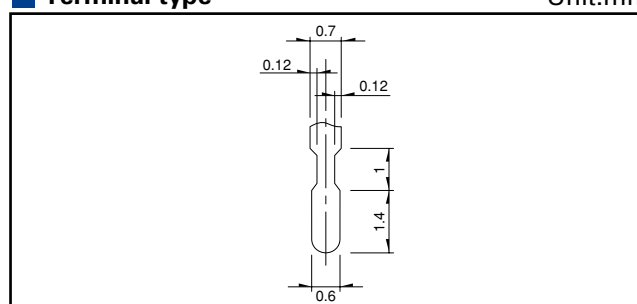
Dimensions

Unit:mm

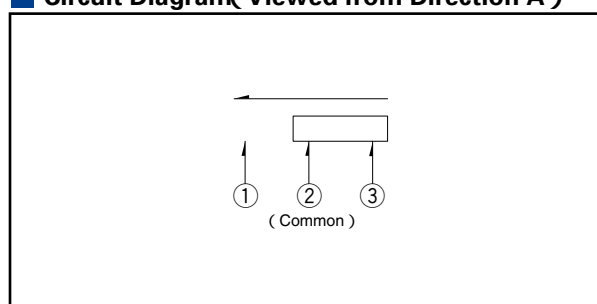
No.	Photo	Style	PC board mounting hole dimensions (Viewed from direction A)
1			
2			

Terminal type

Unit:mm



Circuit Diagram (Viewed from Direction A)



Note

Please place purchase orders per minimum order unit(integer).

List of Varieties (General-purpose Type)

Series		General-purpose Type								
		SPPB	SPVE	SPPW8	SPVM	SPVR	SPVF	SSCU	SSCT	
Photo										
Operation type										
Operating temperature range		-40 to +85	-10 to +60		-40 to +85		-10 to +60	-40 to +85		
Rating (max.) (Resistive load)		0.1A 30V DC			1mA 5V DC			0.1A 12V DC		
Rating (min.) (Resistive load)		50μA 3V DC		100μA 3V DC	50μA 3V DC	100μA 3V DC	50μA 3V DC			
Electrical performance	Initial contact resistance	1Ω max.	500mΩ max.	1Ω max.	2Ω max.	3Ω max.	500mΩ max.	70mΩ max.	20mΩ max.	
	Insulation resistance	100MΩ min. 100V DC						100MΩ min. 250V DC		
	Voltage proof	100V AC for 1 minute						250V AC for 1 minute		
Mechanical performance	Terminal strength	3N for 1 minute	0.5N for 1 minute	3N for 1 minute	1N for 1 minute	0.5N for 1 minute	3N for 30s	3N for 1 minute		
	Actuator strength	10N	5N	10N	5N	2N	1N	5N	10N	
Durability	Operating life without Load	50,000cycles 2Ω max.	50,000cycles 1Ω max.	100,000cycles 2Ω max.	50,000cycles 5Ω max.		100,000cycles 1Ω max.	10,000cycles 100mΩ max.	10,000cycles 40mΩ max.	
	Operating life with Load	(0.1A 30V DC) 50,000cycles 2Ω max.	(0.1A 30V DC) 50,000cycles 1Ω max.	(0.1A 30V DC) 100,000cycles 2Ω max.	(1mA 5V DC) 50,000cycles 5Ω max.		(1mA 5V DC) 100,000cycles 1Ω max.	(0.1A 12V DC) 10,000cycles 150mΩ max.	(0.1A 12V DC) 10,000cycles 60mΩ max.	
Environmental performance	Cold	-20 ± 2 for 96h					-40 ± 2 for 96h	-20 ± 2 for 96h		
	Dry heat	85 ± 2 for 96h								
	Damp heat	40 ± 2 , 90 to 95%RH for 96h								
Dimensions (mm)		W	6.3	3.4	5	2.8	3.6	9	11	12.5
		D	3		4	3.5	4.2	3.5	5.8	5
		H	4.9	2.3		1.5	1.2	4.5	7	11.5
Soldering	Manual soldering	300 ± 5 , 5s max.	350 ± 5 , 3s max.				300 ± 10 , 3 ⁺¹ ₋₀ s	350 ± 5 , 3s max.		
	Dip soldering	260 ± 5 , 5 ± 1s	—	255 ± 5 , 5 ± 1s	—		245 ± 5 , 5 ± 1s	—	260 ± 5 , 5 ± 1s	
	Reflow soldering	Please see P.79					—			
Number of poles		1					1.2	1		
Operation force		0.35N max.	0.3N max.		0.4N max.	0.35N max.	0.3N max.	0.5N max.	0.7 ± 0.3N	
Page		28	34	36	38	40	41	44	45	

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- Detector Switches Soldering Conditions79
- Detector Switches Cautions80