

Detector Switch One-way Operation Type

SPVC1 Series



Push type detector switch applicable to two types of circuit variations; Normal ON and Normal Close.

Detector

Push

Slide

Rotary

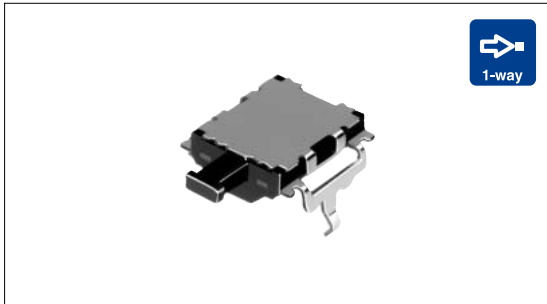
Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products



Typical Specifications

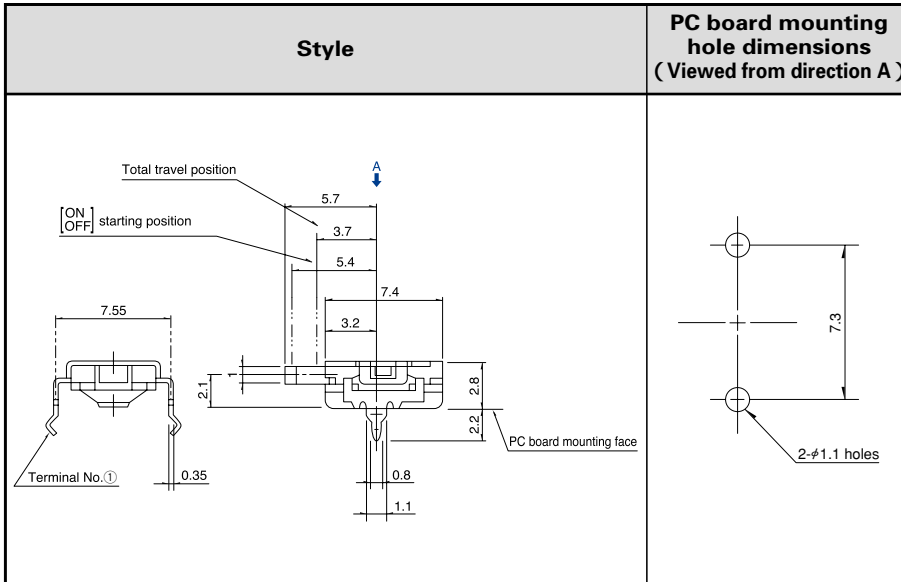
Items		Specifications
Rating (max.)/(min.) (Resistive load)		10mA 16V DC/50μA 3V DC
Contact resistance (Initial /After operating life)		1 max./2 max.
Operating force		0.85N max.
Operating life	Without load	25,000cycles
	With load	25,000cycles(10mA 16V DC)

Product Line

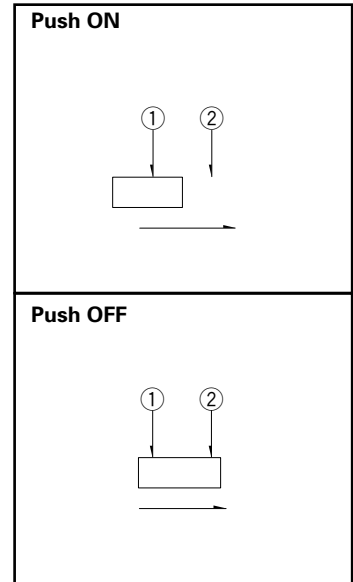
Poles	Positions	Terminal type	Circuit arrangement	Minimum order unit(pcs)	Product No.
1	1	Snap-in	Push ON	12,500	SPVC110300
			Push OFF		SPVC110100

Dimensions

Unit:mm




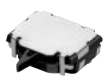




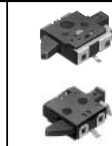
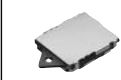








Circuit Diagram



Note

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

List of Varieties (General-purpose Type)

Series	General-purpose Type								
	SSCF	SSCM	SPVP	SPVC1	SPVN	SPVS	SPVG	SPVL	
Detector Photo									
Operation type	 2-way	 2-way	 1-way	 1-way	 2-way	 2-way	 2-way	 3-way	
Operating temperature range	-40 to +85	-10 to +60	-40 to +85						
Rating (max.) (Resistive load)	0.1A 12V DC	1mA 5V DC		10mA 16V DC	1mA 5V DC		50mA 20V DC	1mA 5V 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	100m max.	2 max.	5 max.	1 max.	2 max.		500m max.	2 max.
	Insulation resistance	100M min. 100V DC							
	Voltage proof	100V AC for 1 minute							
Mechanical performance	Terminal strength	5N for 1 minute	0.5N for 1 minute		3N for 1 minute	0.5N for 1 minute		1N for 1 minute	
	Actuator strength	10N	0.5N	5N	10N	5N	10N	5N	
Durability	Operating life without Load	50,000cycles 200m max.	50,000cycles 5 max.	50,000cycles 10 max.	25,000cycles 2 max.	50,000cycles 5 max.		100,000cycles 1 max.	50,000cycles 5 max.
	Operating life with Load	(0.1A 12V DC) 50,000cycles 300m max.	(1mA 5V DC) 50,000cycles 5 max.	(1mA 5V DC) 50,000cycles 10 max.	(10mA 16V DC) 25,000cycles 2 max.	(1mA 5V DC) 50,000cycles 5 max.		(50mA 20V DC) 100,000cycles 1 max.	(1mA 5V DC) 50,000cycles 5 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	11	5	3.5	6.3	3.8	3.5	5.5	5.55
	D	5.8	4	5.65	7.4	3.6	3.3	6.5	6.6
	H	12.4	1.5	1.2	2.8	1		2	1
Soldering	Manual soldering	350 ± 10 , 3 ⁺¹ / ₀ s	350 ± 5 , 3s max.		350 ± 10 , 3 ⁺¹ / ₀ s	350 ± 5 , 3s max.			
	Dip soldering	260 ± 5 , 5 ± 1s			260 ± 5 , 3s max.				
	Reflow soldering	Please see P.79		Please see P.79					
Number of poles	1								
Operation force	0.7N max.	0.35N max.	0.55N max.	0.85N max.	0.35N max.		0.4N max.	0.35N max.	
Page	46	48	49	50	51	53	55	60	

Detector Switches Soldering Conditions	79
Detector Switches Cautions	80