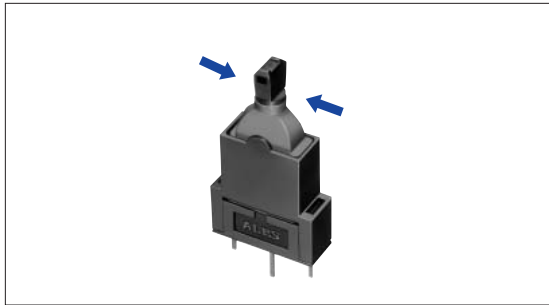


Detector Switch Water-proof Lever type

SSCN Series



Detectable in both the right/left directions operating angle of 40 degrees in one side, Water-proof lever type switch.



Features

- Detectable right and left directions.
- Long ON travel (single side : 30°) offers broader design flexibility around the set mechanism.
- Double surface sliding contacts for higher contact reliabilities.
- The Water resistance conforms to IP67.

Applications

- Detection of mechanism operation in automobiles and surrounding wet areas

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

Multi Control
Devices

TACT Switch™

Custom-
Products

Typical Specifications

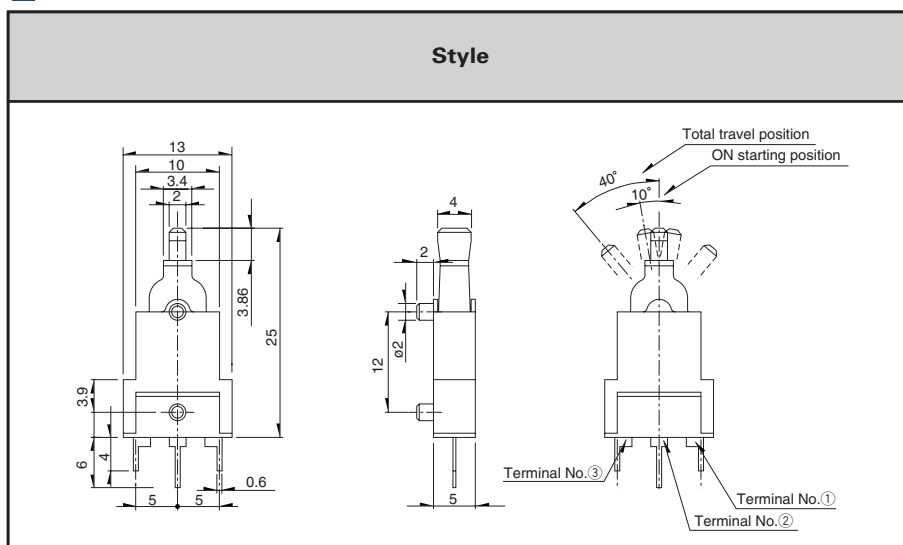
Items		Specifications
Rating (max.) / (min.) (Resistive load)		0.1A 12V DC / 100μA 3V DC
Contact resistance (Initial performance / After lifetime)		500mΩ max. / 1Ω max.
Operating force		2N max.
Lever deviated angle		40°
Operating life	Without load	100,000 cycles
	With load	1,000,000 cycles (0.1A 12V DC)

Products Line

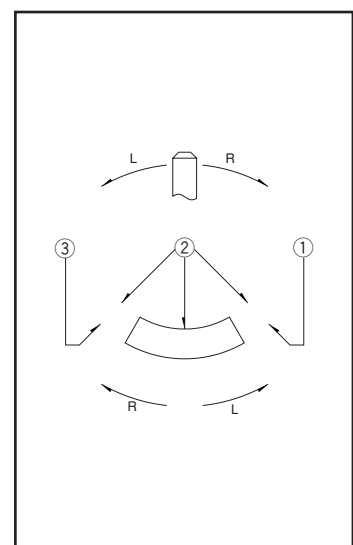
Poles	Positions	Changeover timing	Terminal style	Products No.
1	2	Non shorting	For PC board	SSCN110101

Dimensions

Unit:mm



Circuit Diagram



Note

This unit cannot be used in the water.

For other specifications, see P.70

Products Specifications

Items		Series											
		SPVP	SPVC1	SPVN	SPVS	SPVG	SSCW	SPVL	SPVQ1	SPVQ3	SPVQ4	SSCN	
Detector	Operating temperature range	-10°C to +60°C					-40°C to +85°C	-10°C to +60°C	-40°C to +85°C				
	Rating (max.) (Resistive load)	1mA 5V DC	10mA 16V DC	1mA 5V DC		50mA 20V DC	0.1A 12V DC	1mA 5V DC	0.1A 12V DC				
Push	Electrical performance	Initial contact resistance		5 Ω max.	1 Ω max.	2 Ω max.		500mΩ max.		2 Ω max.		500mΩ max.	
Slide		Insulation resistance		100MΩ min. 100V DC				100MΩ min. 250V DC	100MΩ min. 100V DC	100MΩ min. 500V DC			
Rotary		Voltage proof		100V AC for 1 min.				250V AC for 1 min.	100V AC for 1 min.	500V AC for 1 min.			
Encoders	Mechanical performance	Robustness of terminal		0.5N for 1 min.	3N for 1 min.	0.5N for 1 min.		—	1N for 1 min.	3N for 1 min.			
Power		Robustness of actuator		5N	10N	5N	10N	20N	5N	20N		10N	
Dual-in-line Package Type		Vibration		10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively									
Multi Control Devices	Resistance to soldering heat	Manual soldering		350±5°C, 3s max.	350±10°C, 3 ⁺¹ s	350±5°C, 3s max.		—	350±5°C, 3s max.	300±10°C, 3 ⁺¹ s			
TACT Switch™		Dip soldering		—	260±5°C, 3s max.	—		—	—	260±5°C, 5±1s		—	
Custom-Products		Reflow soldering		Please see P.72	—	Please see P.72		—	Please see P.72	—			
Durability	Operating life without load		50,000 cycles 10Ω max.	25,000 cycles 2Ω max.	50,000 cycles 5Ω max.		100,000 cycles 1Ω max.		50,000 cycles 5Ω max.	300,000 cycles 1Ω max.	300,000 cycles or 1,000,000 cycles 1Ω max.	300,000 cycles 1Ω max.	100,000 cycles 1Ω max.
	Operating life with load		(1mA 5V DC) 50,000 cycles 10Ω max.	(10mA 16V DC) 25,000 cycles 2Ω max.	(1mA 5V DC) 50,000 cycles 5Ω max.		(50mA 20V DC) 100,000 cycles 1Ω max.	(0.1A 12V DC) 100,000 cycles 1Ω max.	(1mA 5V DC) 50,000 cycles 5Ω max.	(0.1A 12V DC) 300,000 cycles 1Ω max.	(0.1A 12V DC) 300,000 cycles or 1,000,000 cycles 1Ω max.	(0.1A 12V DC) 300,000 cycles 1Ω max.	(0.1A 12V DC) 100,000 cycles 1Ω max.
Environmental performance	Cold		-20±2°C for 96h				-40±2°C for 96h	-40±2°C for 500h	-20±2°C for 96h	-40±2°C for 500h			
	Dry heat		85±2°C for 96h				85±2°C for 500h	85±2°C for 96h	85±2°C for 500h				
	Damp heat		40±2°C, 90 to 95%RH for 96h				60±2°C, 90 to 95%RH for 500h	40±2°C, 90 to 95%RH for 96h	60±2°C, 90 to 95%RH for 500h				