

SPVQ4H Water-proof Type

Contributes high contact reliability at micro-current range



Typical Specifications



Items		Specifications
Rating (max.)/(min.) (Resistive load)		0.1A 12V DC / 1mA 5V DC
Contact resistance (Initial/After operating life)		500mΩ max. / 1Ω max.
Operating force		3N max.
Operating life	Without load	300,000cycles
	With load	300,000cycles (0.1A 12V DC)

Product Line

Poles	Positions	Change over timing	Operating part shape	Terminal type	Minimum order unit (pcs)		Product No.	Drawing No.
					Japan	Export		
1	2	Non shorting	Actuator	With wire (downwards)	180	720	SPVQ4H1200	1
	With wire (downwards) N/O Circuit			SPVQ4H1300			2	
	With wire (downwards) N/C Circuit			SPVQ4H1400			3	

Notes 1. Unless specified, the length of the lead wire is 250mm. Color is either red, black or yellow. Please consult us for length modification.
2. This unit cannot be used in water (IP67 rating).

Packing Specifications

Bulk

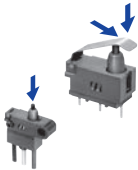
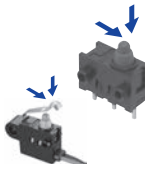
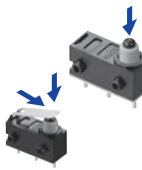
Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
180	720	555×375×223

Dimensions

No.		Style	No.		Style
1		 Total travel position Operating force measurement position Terminal No.①-③ ON Starting point Terminal No.①-② OFF Starting point Free position	3		 Total travel position Operating force measurement position Terminal No.①-② ON Starting point Free position
2		 Total travel position Operating force measurement position Terminal No.①-③ ON Starting point Free position			 No.1 No.2 No.3

Detector Switches

List of Varieties

Series		Water-proof Type				
		SPVQ1	SPVQ3	SPVQ4H	SPVQ6	SPVQ7
Photo						
Operation type		One-way Two-way	Two-way		One-way Two-way	Two-way
Dimensions (mm)	W	13.3	13	19	13.3	14.7
	D	5.8		6	5.3	5.4
	H	8	8.35	11.9	7	6.7
Operating temperature range		-40℃ to +85℃				
Automotive use						
Life cycle (availability)						
Poles / Positions		1/2	1/1 1/2		1/2	1/1 1/2
Rating (max.) (Resistive load)		0.1A 12V DC	0.1A 12V DC or 0.3A 16V DC	0.1A 12V DC		
Rating (min.) (Resistive load)		50μA 3V DC	50μA 5V DC or 1mA 5V DC	1mA 5V DC	50μA 5V DC	
Durability	Operating life without load	300,000cycles 1Ω max.	300,000cycles or 1,200,000cycles 1Ω max.	300,000cycles 1Ω max.		
	Operating life with load Rating (max.) (Resistive load)	300,000cycles 1Ω max.	300,000cycles or 1,200,000cycles 1Ω max.	300,000cycles 1Ω max.		
Electrical performance	Initial contact resistance	500mΩ max.				
	Insulation resistance	100MΩ min. 500V DC				
	Voltage proof	500V AC for 1minute				
Mechanical performance	Terminal strength	3N for 1minute (with terminal) Wire strength 30N for 1minute (with wire)		Wire strenght 30N for1 minute	3N for 1minute	
	Actuator strength	20N				
Environmental performance	Cold	-40℃ 500h				
	Dry heat	85℃ 500h				
	Damp heat	60℃, 90 to 95% RH 500h				
Operation force		2N max. 5.9N max.	1±0.5N 3N max.	3N max.	1±0.5N 3N max.	1±0.5N
Page		46	50	55	56	59

Detector Switches Soldering Conditions	73
Detector Switches Cautions	74

Note

● Indicates applicability to all products in the series.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ALPS:

[SPVQ4H1400](#) [SPVQ4H1200](#) [SPVQ4H1300](#)