

RV Type micro switch

◆ Ratings

Model	Rated voltage	Non-inductive load				Inductive load			
		Resistive load		Lamp load		Inductive load		Motor load	
		NC	NO	NC	NO	NC	NO	NC	NO
RV-21	250 VAC	21A		3A		12A		4A	
	8 VDC	21A		5A		12A		7A	
	30 VDC	14A		5A		12A		5A	
	125 VDC	0.6A		0.1A		0.6A		0.1A	
RV-16	250 VDC	0.3A		0.05A		0.3A		0.05A	
	250 VAC	16A		2A		10A		3A	
	8 VDC	16A		4A		10A		6A	
	30 VDC	10A		4A		10A		4A	
RV-11	125 VDC	0.6A		0.1A		0.6A		0.1A	
	250 VDC	0.3A		0.05A		0.3A		0.05A	
	250 VAC	11A		1.5A		6A		2A	
	8 VDC	11A		3A		6A		3A	
RV-6	30 VDC	6A		3A		6A		3A	
	125 VDC	0.6A		0.1A		0.6A		0.1A	
	250 VDC	0.3A		0.05A		0.3A		0.05A	
	250 VAC	6A		3A		4A		--	
RV-6	8 VDC	6A		3A		4A		--	
	30 VDC	6A		3A		4A		--	
	125 VDC	0.4A		0.1A		0.4A		--	
	250 VDC	0.3A		0.05A		0.2A		--	

Note: 1. The above current values are the normal current values of models with a contact gap of 1mm (gap F), which vary with the normal current values of models with a contact gap of 0.5mm (gap G).

2. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7ms max.(DC).

3. Lamp load has an inrush current of 10 times the steady-state current.

4. Motor load has an current of 6 times the steady-state current.

5. The ratings values apply under the following test conditions:

Ambient temperature: 20 ± 2°C

Ambient humidity: 65 ± 5% RH

Operation frequency: 30 operations/min

◆ Characteristics

Operating speed	0.1mm to 1 m/s (pin plunger type)
Operating frequency	Mechanical: 600 operations/min max. Electrical: 30 operations/min max.
Insulation resistance	100MΩ min. (at 500VDC)
Contact resistance (initial values)	RV-21: 50mΩ max. RV-16, RV-11, RV-6: 30mΩ max.
Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between terminals of same polarity
	2,000 VAC, 50/60 Hz for 1 min between current-carrying metal parts and ground, and between each terminal and non-current-carrying metal parts
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5mm double amplitude
Shock resistance	Destruction: 400 m/s ² (approx. 40G) max. Malfunction: 100 m/s ² (approx. 10G) max.
Durability	Mechanical: 20,000,000 operations min. Electrical: RV-21: 50,000 operations min. RV-16: 100,000 operations min. RV-11: 200,000 operations min. RV-6: 300,000 operations min.
Degree of protection	IEC IP40
Degree of protection against electric shock	Class I
Proof tracking index (PTI)	250
Ambient operating temperature	RV-21: -25°C~+85°C(with no icing or condensation) RV-16, RV-11, RV-6: -25°C~+105°C(with no icing or condensation)
Ambient operating humidity	85% RH max. (for 5°C to 35°C)
Weight	Approx. 6.2g (pin plunger type)