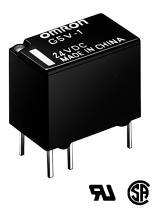
Low Signal Relay **G5V-1**

- High sensitivity: 150 mW nominal power consumption with 96 mW pickup power.
- Small size at 10 H x 7.5 W x 12.5 L mm (0.394 H x 0.295 W x 0.492 L in).
- Conforms to FCC part 68 voltage surge.
- Fully-sealed construction.
- Ideal for use in telecommunications, security, and computer/ peripheral equipment.
- RoHS Compliant.



Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., G5V-1-DC12).

Terminal	Туре	Contact form	Contact type	Construction	Model
PCB through-hole	Standard	SPDT	Single crossbar	Fully sealed	G5V-1
	Special pickup				G5V-1-2

Note: Reflow solder process version is also available in PCB through-hole configuration. Please consult your local Omron sales representative for more information.

Specifications

■ Contact Data

Load	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4, L/R = 7ms)		
Rated load	0.50 A at 125 VAC, 1A 24 VDC	0.50 A at 125 VAC, 1A 24 VDC		
Contact material	Ag (Au clad)	Ag (Au clad)		
Carry current	2 A	2 A		
Max. operating voltage	125 VAC, 60 VDC	125 VAC, 60 VDC		
Max. operating current	1 A	1 A		
Max. switching capacity	62.50 VA, 30W	62.50 VA, 30W		
Min. permissible load	1 mA, 5 VDC			

■ Coil Data (G5V-1, G5V-1-2)

Rated voltage	Rated current (mA)	resistance		uctance ilue) (H)	Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption
(VDC)		(Ω)	Armature OFF	Armature ON	% of rated voltage			(mW)
3	50	60	0.11	0.05	80%	at 55°C	Approx. 150	
5	30	166.70	0.29	0.15	70%			
6	25	240	0.41	0.20	(special pickup)		(131°F)	
9	16.70	540	0.93	0.45			160% at 70°C (158°F)	
12	12.50	960	1.63	0.85				
24	6.30	3,840	6.61	3.48				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ±10%.

2. The operating characteristics are measured at a coil temperature of 23°C (73°F).

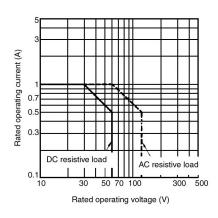
■ Characteristics

		+		
Contact resistance		100 m Ω max.		
Operate time		5 ms max. (mean value: approx. 2.50 ms)		
Release time		5 ms max. (mean value: approx. 0.90 ms)		
Bounce time		5 ms max. (mean value: approx. 0.17 ms)		
Operating frequency	Mechanical	36,000 operations/hour		
	Electrical	1,800 operations/hour		
Insulation resistance		1,000 MΩ min. (at 500 VDC)		
Dielectric strength		1,000 VAC, 50/60 Hz for 1 minute between coil and contacts		
		400 VAC, 50/60 Hz for 1 minute between contacts of same polarity		
Surge withstand voltage		1,500 V 10 X 160 µs (conforms to FCC Part 68)		
Vibration	Mechanical durability	10 to 55 Hz, 3.30 mm (0.13 in) double amplitude		
	Malfunction durability			
Shock	Mechanical durability	1,000 m/s ² (approx. 100G)		
	Malfunction durability	100 m/s ² (approx. 10 G)		
Ambient temperature		-30°C to 70°C (-22°F to 158°F)		
Humidity		35% to 85% RH		
Service life	Mechanical	5 million operations min. (at 36,000 operations/hour)		
	Electrical	See "Characteristic Data"		
Weight		2.20 g (0.08 oz)		

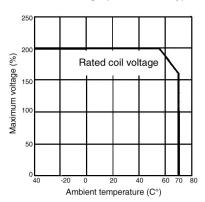
Note: Data shown are of initial value.

■ Characteristic Data

Maximum switching capacity



Ambient temperature vs. maximum voltage (reference only)



Electrical service life

