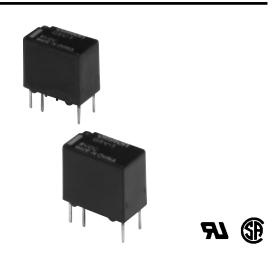
# 

## Low Signal Relay

- 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



## Ordering Information\_

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

Туре	Contact form	Contact type	Construction	Part number
Standard	SPDT	Single crossbar	Fully-sealed	G5V-1
Special pickup				G5V-1-2

## 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, 1 A 24 VDC	
Contact material	Ag (Au clad)	
Carry current	2 A	
Max. operating voltage	125 VAC, 60 VDC	
Max. operating current	1 A	
Max. switching capacity	62.50 VA, 30W	
Min. permissible load	1 mA, 5 VDC	

#### COIL DATA

Rated voltage	e current resistance		Coil inductance (Ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption
(VDC) (mA)	(Ω)	Armature OFF	Armature ON	% of rated voltage			(mW)	
3	50	60	0.11	0.05	80%	10% min.	200%	Approx. 150
5	30	166.70	0.29	0.15	(standard)	lard) at 55°C (131°F)		
6	25	240	0.41	0.20	]		(131°F)	
9	16.70	540	0.93	0.45	70%		160%	
12	12.50	960	1.63	0.85	(special)	at 70°C		
24	6.30	3,840	6.61	3.48			(158°F)	

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 mΩ 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/s² (approx. 100 G)		
	Malfunction durability	100 m/s² (approx. 10 G)		
Ambient temperature		-30°C to 70°C (-22° 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)		

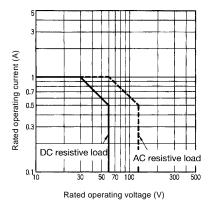
Note: Data shown are of initial value.

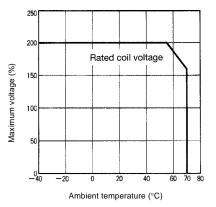
#### ■ CHARACTERISTIC DATA

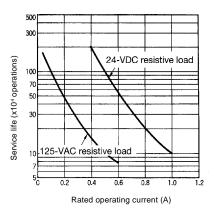
#### Maximum switching capacity

#### Ambient temperature vs. maximum voltage (reference only)

#### **Electrical service life**







### Dimensions

Unit: mm (inch)

RELAYS

Terminal arrangement/ Internal connections (bottom view) Mounting holes (bottom view)

Six 1 (0.04) dia. holes

Note: 1. A tolerance of ±0.10 (0.004) applies to the above dimensions.

#### APPROVALS

UL (File No. E41515)/CSA (File No. LR24825)

Туре	Contact form	Coil rating	Contact ratings
G5V-1	SPDT	3 to 24 VDC	0.5 A, 125 VAC
G5V-1-2			0.3 A, 60 VDC
			1.0 A, 30 VDC

Note: In the interest of product improvement, specifications are subject to change.

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Cat. No. GC RLY6

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