Low Signal Relay **G5V-2**

- Suitable for handling low signals in computer peripherals, telecommunications and security equipment.
- · Capable of switching loads up to 2 A.
- Conforms to FCC part 68 1500 V surge withstand.
- Reliable bifurcated crossbar contacts.
- Fully-sealed construction.
- · RoHS Compliant.

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw





Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., G5V-2-DC12).

Туре	Contact form	Construction	Model
Standard	DPDT	Fully-sealed	G5V-2
High-sensitivity	WW.100 COM	. T. W. TO.	G5V-2-H
Ultra-sensitive	N 1 1007.	V.T.	G5V-2-H1

Specifications

■ Contact Data

Load Rated load	Resistive load (p.f. = 1) 0.50 A at 125 VAC	WW. 1001.				
Rated load	0.50 A at 125 VAC					
	0.00 /	0.5 A at 125 VAC				
	2 A at 30 VDC	1 A at 24 VDC				
Contact material	Ag (Au clad)					
Carry current	2 A TONG COMMENT					
Max. operating voltage	125 VAC					
	125 VDC					
Max. operating current	2 A	1 A				
Max. switching capacity	62.5 VA	62.5 VA				
	60W	24W				
Min. permissible load	10 μA, 10 mVDC	TIWW. TO COMP.				

OMRON

■ Coil Data

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Standard Type

Rated voltage (VDC) Rated current (mA)	Coil resistance (Ω)	Coil inductance (Ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption	
		Armature OFF Armature ON % of rated voltage		age	(mW)			
3	166.70	18	0.04	0.05	75% max. 5%	5% min.	120% max.	Approx. 500
5	100	50	0.09	0.11		WY	at 65°C (149°F)	
6	83.30	72	0.16	0.19	OM	šΤ		
9	55.60	162	0.31	0.49	T.Mo.			
12	41.70	288	0.47	0.74	COM.TV	VV V		
24	20.80	1,152	1.98	2.68		≤ 1		
48	12	4,000		WWW.100	DY.COM.	CLA LA	110% max. at 60°C (140°F)	Approx. 580

High-sensitivity Type

Rated voltage (VDC) Rated current (mA)	Coil resistance (Ω)	Coil inductance (Ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (mW)	
MMA		1.100 Y.C	Armature OFF	Armature ON	% of rated voltage		age	W.1007.
3	120	25	0.04	0.07	75% max.	5% min.	120% max.	Approx. 360
5	72	70	0.12	0.19	MM. 2007	L.COM	at 70°C	100X
6	60	100	0.18	0.29	WW.Ino	(158°F)	(158°F)	WW.IO
9	40	225	0.40	0.62	100	T.Mo.		1 1 100 Y
12	30	400	0.75	1.18	WWW.	V.CO	TW	WWW
24	15	1,600	3.16	4.81		-1 COM.		TWW.IO
48	7.5	6,400	OOY.COM	IM EM	WWW.	100X'COM	110% max. at 70°C (158°F)	WWW.10

Ultra-sensitive Type

Rated voltage (VDC) Rated current (mA)		Coil inductance (Ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (mW)	
		MA	Armature OFF	Armature ON	% of rated voltage			
3	50	60	0.18	0.26	75% max. 5% min.	5% min.	150% max. at 70°C (158°F)	Approx. 150
5	30	166.7	0.46	0.47		1700		
6	25	240	0.70	0.97		WWW.IO		
9	16.70	540	1.67	2.33				
12	12.50	960	2.90	3.99	W	MM,	CON.CO	TW
24	8.30	2,880	6.72	9.27	XX	WW.	N.100Y.COM	Approx. 120
48	6.25	7,680	20.10	26.70	1.7.	W.		Approx. 300

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ±10%. WWW.1007

^{2.} The operating characteristics are measured at a coil temperature of 23°C (73°F). WWW.100Y.COM.TW

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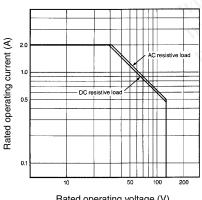
■ Characteristics

Contact resistance		50 m Ω max. G5V-2, G5V-2-H, 100 m Ω max. G5V-2-H1				
		7 ms max. (mean value: approx. 3.5 ms) 3 ms max. (mean value: approx. 0.8 ms)				
WWW.IO	Release	Mean value: approx. 3.5 ms				
Operating frequency	Mechanical	36,000 operations/hour				
MM.	Electrical	1,800 operations/hour (under rated load)				
Insulation resistance	ON COM	1,000 MΩ min (at 500 VDC)				
Dielectric strength		1,000 VAC, 50/60 Hz for 1 minute between coil and contacts 1,000 VAC, 50/60 Hz for 1 minute between contacts of different poles 750 VAC, 50/60 Hz for 1 minute between contacts of same poles (500 VAC, 50/60 Hz for 1 minute between contacts of same poles for ultra-sensitive type)				
Surge withstand voltage	1007.00	1,500 V 10 X 160 µs (conforms to part 68 of FCC rules)				
Vibration Mechanical durability Malfunction durability		10 to 55 Hz, 1.50 mm (0.59 in) double amplitude				
Shock	Mechanical durability	1,000 m/s ² (approx. 100 G)				
	Malfunction durability	200 m/s² (approx. 20 G), 100 m/s² (approx. 10 G) for ultra-sensitive type				
Ambient temperature Operating/storage		-25° to 70°C (-13° to 158°F)				
Humidity		35% to 85% RH				
Service life	Mechanical	15 million operations min. (at operating frequency of 36,000 operations/hour)				
	Electrical	See "Characteristic Data"				
Weight	MM. 1001;	6 g (0.21 oz)				

Note: Data shown are of initial value.

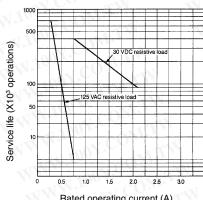
■ Characteristic Data

Maximum Switching Capacity



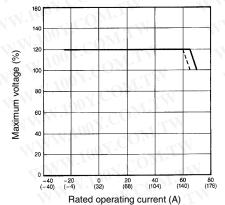
Rated operating voltage (V)

Electrical Service Life



Rated operating current (A)

WWW.100Y.COM Ambient Temperature vs. Maximum Voltage



--- 48 VDC coil voltage (standard type)

WWW.100Y.COM.TW

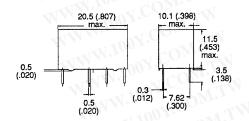
— All other types and voltages

Dimensions

Unit: mm (inch)

■ Relays

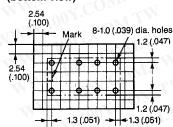
Fully-sealed



Terminal arrangement/Internal (bottom view)



Mounting holes (bottom view)



Note: 1. and [] indicate mounting orientation marks.

2. A tolerance of ± 0.10 (0.004) applies to the above dimensions.

■ Approvals

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

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Туре	Contact form	Coil rating	Contact ratings
G5V-2	DPDT	3 to 48 VDC	0.6 A, 125 VAC
G5V-2-H	100 E	3 to 24 VDC	0.6 A, 110 VDC
	WW 100	TIV	2.0 A, 30 VDC
G5V-2-H1		3 to 48 VDC	0.5 A, 125 VAC
	W 1 100) I. O.M.I.	0.6 A, 125 VAC
	MAN	WY.CO. TW	0.2 A, 110 VDC
	W.W.1	COMP	0.6 A, 110 VDC
	MW.	100X.	1.0 A, 24 VDC

Note: 1. The rated values approved by each of the safety standards may be different from the performance characteristics individually defined in this catalog.

- 2. In the interest of product improvement, specifications are subject to change.
- 3. UL1950 recognition.