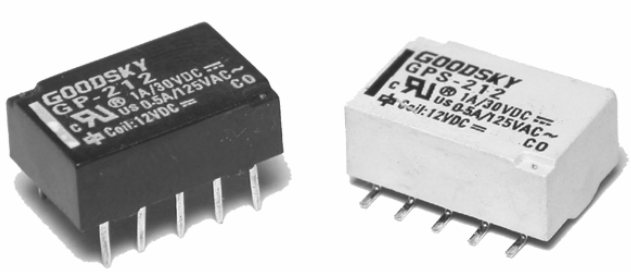


Main Feature

1. DIL Pitch Terminals High Sensitivity :0.14W or 0.10W Nominal Power.
2. Conforms to FCC Part 68 1.5kV Surge and Dielectric 1,000VAC.
3. Monostable or bistable relays of Single Coil magnet latching Type available.

Application

Application for Telecommunication Equipment, Office Equipment, Security Alarm Systems, Measuring instruments, Medical Monitoring Equipment, Audio Visual Equipment, Flight Simulator, Sensor Control.

Contact Rating

- Nominal Load(Resistive Load Cos φ =1)
  Contact Capacity ..... 1A at 30VDC.
  0.5A at 125VAC.
  Rated Carrying Current ..... 1A.
  Max. Allowable Current ..... 1A.
  Max. Allowable Voltage ..... DC 30V, AC 125V.
  Max. Allowable Power Force 30W, 62.5VA.
  Min. Switching Load ..... DC 10mV, 0.01mA.
- Contact Material ..... Ag Alloy.
- Contact Form..... DPDT.

Performance (at Initial Value)

- Contact Resistance ..... 50 mΩ Max.
- Operate Time..... 3 mSec. Max.
- Release Time..... 3 mSec. Max.
- Dielectric Strength :
  Between Coil & Contact ..... 1,000VAC at 50/60 Hz for one minute.
  Between Contacts ..... 1,000VAC at 50/60 Hz for one minute.
  Between Contact Poles ..... 1,000VAC at 50/60 Hz for one minute.
- Surge Resistance ..... 1,500V (between coil & contact 1x40 μSec.)
- Insulation Resistance ..... 1,000Mega Ωmin. at 500VDC.
- Max. On/Off Switching :
  Electrical.....20 Ops per Minute.
  Mechanical.....180 Ops per Minute.
- Temperature Range .....-40～70°C
- Humidity Range .....45～85% RH.
- Coil Temperature Rise .....50°C Max.
- Vibration :
  Endurance.....10 to 55 Hz dual amplitude width 1.5mm.
  Error Operation .....10 to 55 Hz dual amplitude width 1.5mm.
- Shock :
  Endurance.....100 G Min.
  Error Operation .....10 G Min.
- Life Expectancy :
  Mechanical.....10^8Operations at No Load condition.
  Electrical.....1A/30VDC: $2x10^5$
  0.5A/125VAC: $1x10^5$
  Operations at Rated Resistive Load.
- Weight.....About 1.5 g.

Safety Standard & Its File Number

- C-UL.....E141060.

Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
GP/GPS (Single Side Stable)	3	46.7	64.3	0.14	75% Maximum	10% Minimum	150%
	4.5	31.1	145				
	5	28.0	178				
	6	23.3	257				
	9	15.5	579				
	12	11.7	1,028				
	24	8.3	2,880	0.2			
Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Set Voltage (VDC)	Reset Voltage (VDC)	
GP/GPS (1Coil Latching)	3	33.3	90	0.1	75% Maximum	-75% Maximum	
	4.5	22.2	203				
	5	20.0	250				
	6	16.7	360				
	9	11.1	810				
	12	8.3	1,440				
	24	6.3	3,840	0.15			

Ordering Information

GP - L - 2 12 W

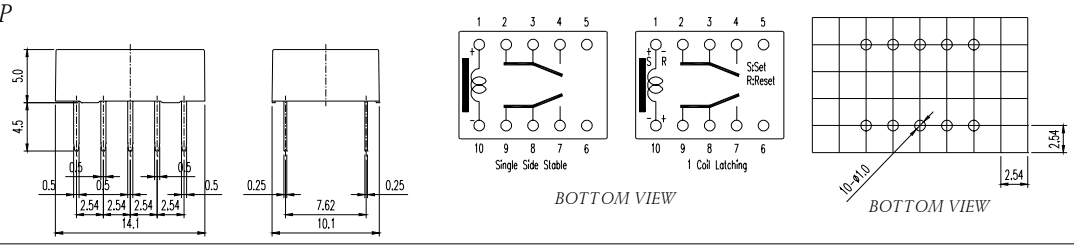
Contact Material:	**Nil**: AgPd (Gold clad) **W**: AgNi (Gold clad)
Coil Voltage:	**03**: 3V, **4.5**: 4.5V, **05**: 5V, **06**: 6V, **09**: 9V, **12**: 12V, **24**: 24V
Number of Pole:	**2**: Two Poles
Coil Type:	**Nil**: Single Side Stable **L**: 1 Coil Latching
Type:	**GP**: (PCB Terminal) **GPS**: (SMD Terminal)

Classification

Model	GP / GPS			
Contact Material	AgPd (Gold clad)		AgNi (Gold clad)	
Coil Type	Single Side Stable	1 Coil Latching	Single Side Stable	1 Coil Latching
Ordering Type	GP/GPS-2□□	GP/GPS-L-2□□	GP/GPS-2□□W	GP/GPS-L-2□□W

Dimension

GP



GPS