

## Main Feature

1. Gold Silver alloy contact good for low switching application.
2. 2.54mm terminal pitch employment equivalent to I.C. Terminal.
3. Different types of coil sensitivity available to meet user's selection.
4. Plastic epoxy resin sealed type for washing procedure.
5. Comply with RoHS and REACH regulations

## Contact Rating

Load Type	GS (D)	GS (L)	GS (T)
Rated Load (Resistive)	1A 120VAC	1A 120VAC	1A 120VAC
	2A 24VDC	2A 24VDC	2A 24VDC
Rated Carrying Current	2A	2A	2A
Max. Allowable Voltage	AC 120V	AC 120V	AC 120V
	DC 24V	DC 24V	DC 24V
Max. Allowable Current	2A	2A	2A
Max. Allowable Power Force	120VA	120VA	120VA
	48W	48W	48W
Min. Switching Load	DC 1V, 1mA	DC 1V, 1mA	DC 1V, 1mA
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	DPDT	DPDT	DPDT

## Application

Telecommunication, Domestic Appliances, Office Machine, Audio Equipment, Remote Control, etc

## Performance (at Initial Value)

- Contact Resistance ..... 100mΩ Max. @100mA, 6VDC
- Operate Time..... GS-D 6 mSec. Max.  
GS-T/L 8 mSec. Max.
- Release Time ..... 4 mSec. Max.
- Dielectric Strength:  
Between Coil & Contact..... 1,000VAC at 50/60 Hz  
for one minute  
Between Contacts..... 500VAC at 50/60 Hz  
for one minute
- Surge Strength..... 1,500V (between coil  
& contact 1.2x50μSec.)
- Insulation Resistance ..... 100 MegaΩ Min. at  
500VDC
- Max. On/Off Switching:  
Electrical ..... 30 Cycles per Minute  
Mechanical ..... 300 Cycles per Minute

- Temperature Range.....-30~+80°C
- Humidity Range ..... 45~85% RH.
- Coil Temperature Rise ..... 25°C Max. (D Type)  
20°C Max. (T/L Type)
- Vibration:  
Endurance ..... 10 to 55 Hz dual  
amplitude width 1.5mm  
Error Operation ..... 10 to 55 Hz dual  
amplitude width 1.5mm
- Shock:  
Endurance ..... 1,000 m/S<sup>2</sup>  
Error Operation ..... 100 m/S<sup>2</sup>
- Life Expectancy:  
Mechanical ..... 10<sup>7</sup> Operations at No  
Load condition  
Electrical ..... 10<sup>5</sup> Operations at  
Rated Resistive Load
- Weight.....About 4.8 g

## Safety Standard & File Number

- UL & C-UL.....E141060  
(Only for GS-D & GS-T type)

## Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
GS - D	3	120	25	Abt. 0.36	75% Maximum	10% Minimum	150%
	5	71.4	70				
	6	60.0	100				
	9	40.0	225				
	12	30.0	400				
	24	15.0	1,600				
GS - T	3	66.7	45	Abt. 0.20	75% Maximum	10% Minimum	150%
	5	40.0	125				
	6	33.3	180				
	9	22.2	405				
	12	16.7	720				
	24	8.3	2,880				
GS - L	3	50.0	60	Abt. 0.15	80% Maximum	10% Minimum	150%
	5	30.0	167				
	6	25.0	240				
	9	16.7	540				
	12	12.5	960				
	24	6.25	3840				

## Ordering Information

GS - SH - 2 12 D

Coil Sensitivity:

D: Standard DC

T: Medium DC

L: High DC

Coil Voltage: 03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V

Number of Pole: 2: Two Poles

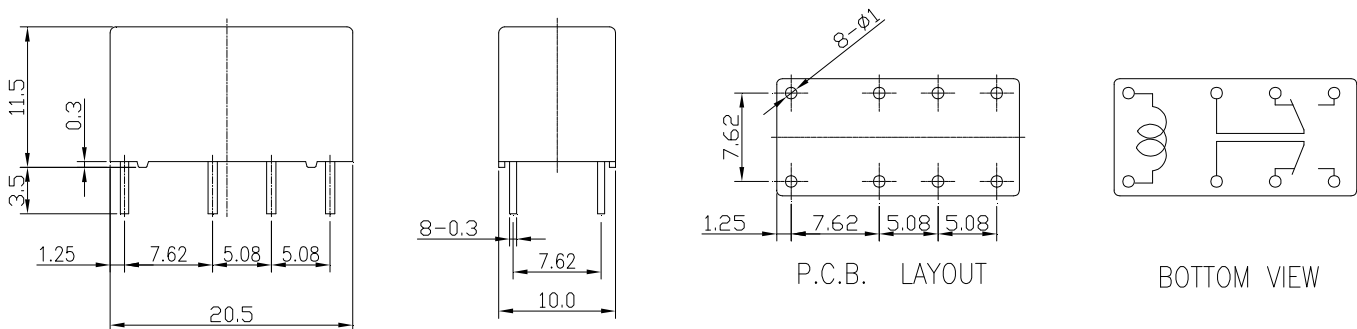
Type of Sealing: SH: RT III Wash Tight

Type: GS

## Classification

Model	GS		
Coil Sensitivity	Standard DC	Medium DC	High DC
Wash Tight	GS-SH-2□□D	GS-SH-2□□T	GS-SH-2□□L

Dimension ( $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.1\text{mm}$ )



## Reference Data

