GSZ

Main Feature

1. Insulation distance of 6 mm minimum suitable for domestic appliances and industrial equipment with dielectric strength at 4,000VAC.
2. The employment of high performance Contact Material is suitable for high inrush current.
3. The employment of suitable plastic materials is applied under high temperature and various chemical solutions.
4. TV-8 at 120VAC of GSZ model is certified by UL.

Contact Rating

Load Type	**GSZ (DM)**
Rated Load (Resistive)	16A 120VAC
	16A 30VDC
Contact Capacity	TV-8 120VAC
Rated Carrying Current	16A
Max. Allowable Voltage	AC 240V
	DC 100V
Max. Allowable Current	16A
Max. Allowable Power Force	1920VA
	480W
Contact Material	Ag Alloy
Contact Form	SPST

Application

Cooling Applications, Air Conditioners, Controlling Equipment…etc.

Performance (at Initial Value)

- Contact Resistance ..... 100mΩMax.@1A,6VDC
- Operate Time..... 20 mSec. Max.
- Release Time ..... 10 mSec. Max.
- Dielectric Strength:
  Between Coil & Contact ..... 4,000VAC at 50/60 Hz for one minute.
  Between Contacts ..... 1,000VAC at 50/60 Hz for one minute.
- Surge Strength ..... 7,000V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance..... 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :
  Electrical..... 6 Cycles per Minute.
  Mechanical ..... 300 Cycles per Minute.
- Temperature Range..... -25～55°C
- Humidity Range .....45～85% RH.
- Coil Temperature Rise .....55°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 .....1,000 m/S^2 .
  Error Operation .....100 m/S^2 .
- Life Expectancy :
  Mechanical .....10^7 Operations at No Load condition.
  Electrical ……10^5 Operations at Rated Resistive Load.
  $2.5x10^4$ Operations at TV Rated Load.
- Weight.....About 13.6 g.

Safety Standard & Its File Number

- UL & C-UL.....E141060
- CQC……02001001371

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)
GSZ	3	176.5	17	Abt. 0.54	80% Maximum	5% Minimum	120%
	5	106.4	47				
	6	88	68				
	9	58	155				
	12	44.4	270				
	24	21.8	1,100				
	48	11	4,400				

Ordering Information

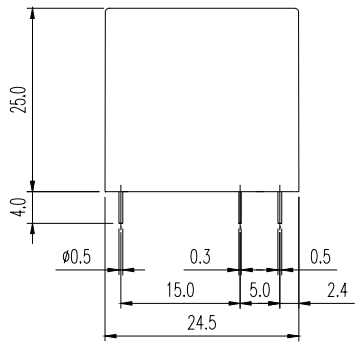
GSZ - SS - 1 12 D M

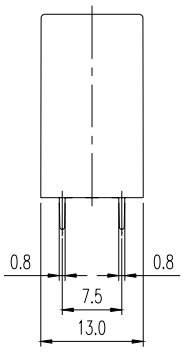
Contact Form:	**M**: One Form A
Coil Type:	**D**: Standard DC Coil
Coil Voltage:	**03**: 3V, **05**: 5V, **06**: 6V, **09**: 9V, **12**: 12V, **24**: 24V, **48**: 48V
Number of Pole:	**1**: One Pole
Type of Sealing:	**SS**：RT Ⅱ Flux Proofed Relays
	SH：RT Ⅲ Wash Tight Relays
Type:	**GSZ**

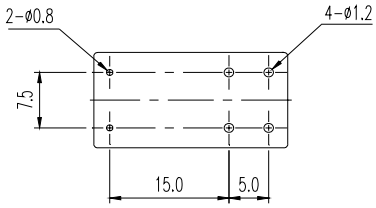
Classification

Model	**GSZ**
Contact Form	1A
Flux Proofed Relay	GSZ-SS-1□□DM
Wash Tight Relay	GSZ-SH-1□□DM

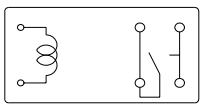
Dimension (≦ 5mm± 0.2mm, > 5mm ± 0.3mm, the tolerance of PCB thru hole: +0.1mm)







P.C.B. Layout



BOTTOM VIEW