

# GP



## Product Features

- ◆ Miniature, suitable for installation on high density PCB
- ◆ Water-proof type
- ◆ Suitable for fitness equipments, industrial control equipments, automatization control systems, etc.
- ◆ Outline dimensions: 29.0\*12.6\*20.6mm

## Ordering Information

<b>Model No.</b>	GP	-12VDC	-C	54
<b>Nominal Coil Voltage:</b>	5,6,9,12,24,48V(DC)			
<b>Contact Form:</b>	A: Normally Open C: Normally Open&Close			
<b>Nominal Coil Power:</b>	54:0.54W, 72:0.72W			

## Contact Rating

Contact Form		1A, 1C
Contact Material		Ag Alloy
Contact Rating(Resistive)		10A 250VAC/30VDC
Switching Power Max.		300W 2500VA
Switching Voltage Max.		30VDC 250VAC
Switching Current Max.		10A
Contact Resistance		≤100mΩ
Endurance	Electrical	10 <sup>5</sup>
	Mechanical	10 <sup>7</sup>

### Coil Rating

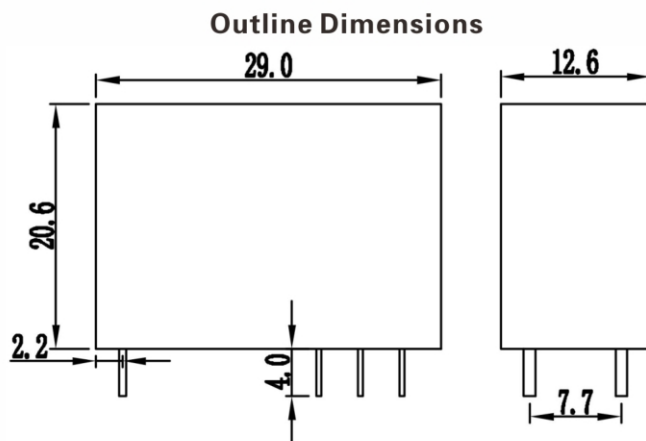
Nominal Coil Voltage(VDC)	Coil Voltage Max.(VDC)	Pick up Max. (VDC)	Drop out Min. (VDC)	Coil Resistance R(1 ± 10%) Ω	Coil Power (W)	Operate Time (ms)	Release Time (ms)
5	6.5	4.0	0.25	47 / 36	0.54 / 0.72	15	5
6	7.8	4.8	0.30	68 / 50			
9	11.7	7.2	0.45	155 / 115			
12	15.6	9.6	0.60	270 / 200			
24	31.2	19.2	1.20	1100 / 820			
48	62.4	38.4	2.40	4400 / 3300			

### Technical Rating

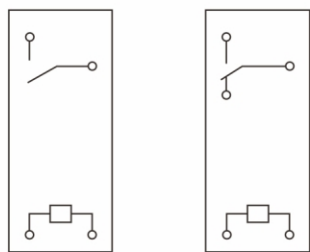
Insulation Resistance		100M Ω (500VDC)Min.	Item 7 of IEC 255-5
Dielectric Strength	Between Open Contacts	50Hz 1000V	Item 6 of IEC 255-5
	Between Contact Groups	50Hz 2500V	Item 6 of IEC 255-5
Shock Resistance		100m/s <sup>2</sup> 11ms	IEC 68-2-27 Test Ea
Vibration Resistance		10Hz ~ 50Hz double amplitude 1.5mm	
Leading-out Terminal Strength		10N	
Ambient Temperature		-30℃ ~ 70℃	
Relative Humidity		85%(at 40℃)	
Weight		12g	

## Outline Dimensions, Wiring Diagram And PCB Layout

Unit:mm



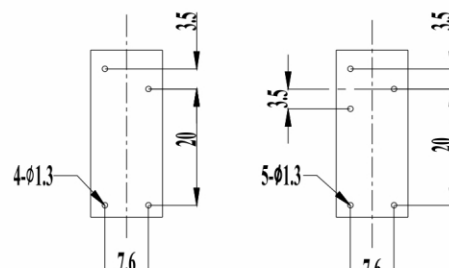
**Wiring Diagram(Bottom View)**



1A

1C

**PCB Layout (Bottom View)**

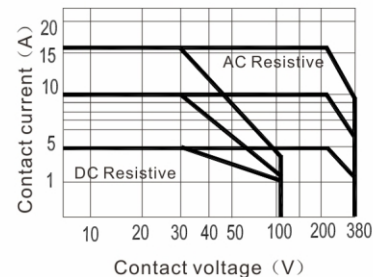
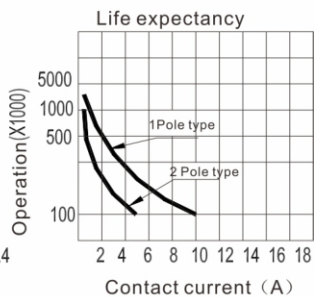
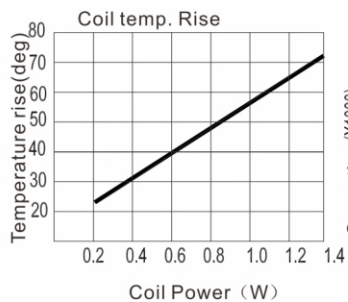
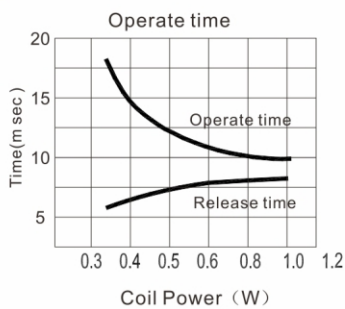


1A

1C

**Remarks:** ( 1 ) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $> 1\text{mm}$  and  $\leq 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $> 5\text{mm}$ , tolerance should be  $\pm 0.4\text{mm}$ .  
 ( 2 ) The tolerance without indicating for PCB layout is always  $\pm 0.1\text{mm}$ .

## Engineering Data



**Note:** Specification and dimensions in this catalogue are for reference only and subject to change without notice.