

● Features

- 16A switching capability
- Low height: 20.6 mm
- 5kV dielectric strength (between coil and contacts)
- Plastic sealed and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Dimensions: 29.0 x 12.6 x 20.6 mm



● Application

- Smart Home Solution / Home Appliance / Temperature Control / Industrial Control / Security System / Industrial Control / Anti-Theft System, etc.



● Contact Data

Contact Arrangement	1A, 1C	2A, 2C
Contact Material	Ag Alloy	
Contact Rating	16A 250VAC, 16A 30VDC, 10A 250VAC, 10A 30VDC (resistive) 1/4 HP 250VAC, TV-10 120VAC	5A 250VAC, 8A 250VAC 5A 30VDC, 8A 30VDC (resistive)
Max. Switching Power	4000VA	2000VA
Max. Switching Voltage	440VAC	
Max. Switching Current	16A	8A
Contact Resistance	$\leq 100\text{m}\Omega$	
Electrical Endurance	1×10^5	
Mechanical Endurance	1×10^7	

● Coil Parameter

Standard Type

Coil voltage (VDC)		Coil resistance ($\Omega \pm 10\%$)	Pickup voltage(max) (VDC)	Release voltage(min) (VDC)	Coil power consumption (W)
Rated	Max.				
3	3.9	12.5	2.25	0.3	0.72
5	6.5	36	3.75	0.5	
6	7.8	50	4.50	0.6	
9	11.7	115	6.75	0.9	
12	15.60	200	9.00	1.2	
18	23.4	460	13.5	1.8	
24	31.2	820	18.0	2.4	
48	62.4	3300	33.6	4.8	

Sensitive Type

Coil voltage (VDC)		Coil resistance ($\Omega \pm 10\%$)	Pickup voltage(max) (VDC)	Release voltage(min) (VDC)	Coil power consumption (W)
Rated	Max.				
3	3.9	17	2.25	0.3	0.54
5	6.5	47	3.75	0.5	
6	7.8	68	4.50	0.6	
9	11.7	155	6.75	0.9	
12	15.60	270	9.00	1.2	
18	23.4	620	13.5	1.8	
24	31.2	1100	18.0	2.4	
48	62.4	4400	36.0	4.8	

● Operation Condition

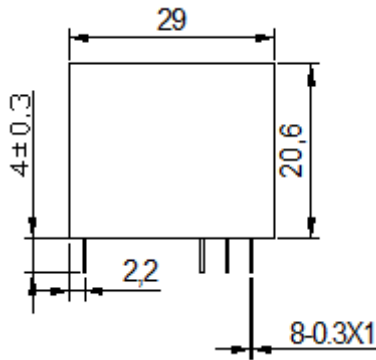
Insulation resistance		1000MΩ min (at 500VDC)
Dielectric strength	Between coil and contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
Shock resistance	Functional	98m/s ²
	Endurance	980m/s ²
Vibration resistance		10Hz to 50Hz double amplitude 1.5mm
Ambient temperature		-40 ~ +85℃
Operate time		≤ 15ms (0.72W) / ≤ 20ms (0.54W)
Release time		≤ 8ms
Relative Humidity		5%~85%
Weight		Approx. 13g

● Ordering Information

	GP	-S	-12VDC	-1A	54	-S	16	(XXX)
Model								
Version								
(See Wiring Diagram Below)	Nil: 5.0mm	S: 3.5mm						
Coil Voltage	3, 5, 6, 9, 12, 18, 24, 48VDC							
Contact Arrangement	1A: 1 Form A 1C: 1 Form C 2A: 2 Form A 2C: 2 Form C							
Coil Power	Nil: 720mW 54: 540mW							
Construction	Nil: Flux tight S: Sealed							
Contact Current	5: 5A (5A only for 2 pole 5mm) 10: 10A (only for 1 pole 3.5mm or 1 pole 5mm) 16: 16A (only for 1 pole 5mm, double pinning)							
Special Code	Nil: Standard XXX: Customer special requirement							

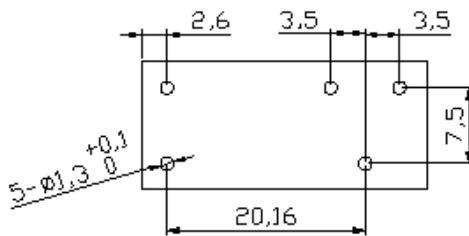
● Dimensions (UNIT: mm)

Outline Dimensions

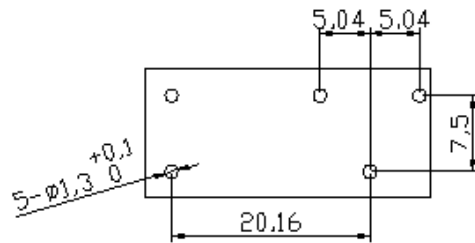


Mounting (Bottom views)

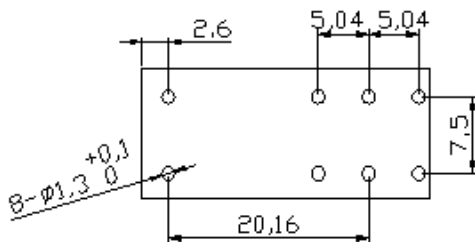
GPS 3.5mm 1Pole 10A



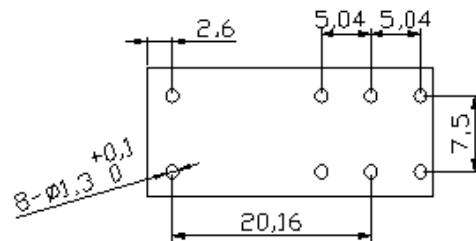
GP 5mm 1Pole 10A



GP 5mm 1Pole 16A



GP 5mm 2Pole 5A



● Dimensions (UNIT: mm)

Wiring Diagram (Bottom views)

GPS 3.5mm / GP 5mm, 1Pole 10A

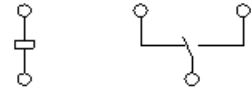
1 Form A



1 Form B

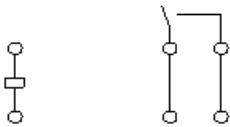


1 Form C

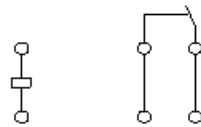


GP 5mm 1Pole 16A

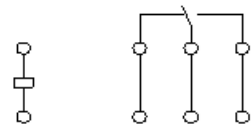
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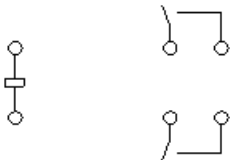


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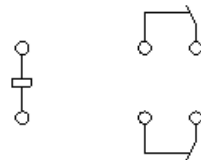


GP 5mm 2Pole 5A

2 Form A



2 Form B



2 Form C

