

● Features

- 10A switching capability
- 1 Form A and 1 Form C configurations
- Subminiature, standard PCB layout
- Plastic sealed and flux proofed types available
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Dimensions: 18.4 x 10.2 x 15.3 mm



● Application

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

● Contact Data

Contact Arrangement		1A, 1C
Contact Material		Ag Alloy
Contact Rating	High Capacity	10A 250VAC / 30VDC
	Standard	5A 250VAC / 30VDC TV-5 120VAC 1/10HP 125VAC 1/6HP 250VAC 1.5FLA / 10LRA 120VAC
Max. Switching Power		2500VA / 300W
Max. Switching Voltage		250VAC / 30VDC
Max. Switching Current		10A
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	20	2.25	0.15	0.45
5	6.5	56	3.75	0.25	
6	7.8	80	4.50	0.30	
9	11.7	180	6.75	0.45	
12	15.6	320	9.00	0.60	
18	23.4	720	13.5	0.90	
24	31.2	1280	18.0	1.20	
48	62.4	5120	36.0	2.40	

Sensitive Type (Only for 1 Form A)

Coil voltage (VDC)		Coil resistance ($\Omega \pm 10\%$)	Pickup voltage(max) (VDC)	Release voltage(min) (VDC)	Coil power consumption (W)
Rated	Max.				
3	4.5	45	2.25	0.15	0.20
5	7.5	125	3.75	0.25	
6	9.0	180	4.50	0.30	
9	13.5	405	6.75	0.45	
12	18.0	720	9.00	0.60	
18	27.0	1620	13.5	0.90	
24	36.0	2880	18.0	1.20	
48	72.0	11520	36.0	2.40	

● Operation Condition

Insulation resistance		1000MΩ min (at 500VDC)
Dielectric strength	Between contacts	1000V
	Between contact and coil	2500V(1C) / 4000V (1A)
Shock resistance	Functional	98m/s ²
	Endurance	980m/s ²
Vibration resistance		10~55Hz double amplitude 1.5mm
Ambient temperature		-40 ~ +85℃
Operate time		≤ 8ms
Release time		≤ 5ms
Relative Humidity		5%~85%
Weight		Approx. 6g

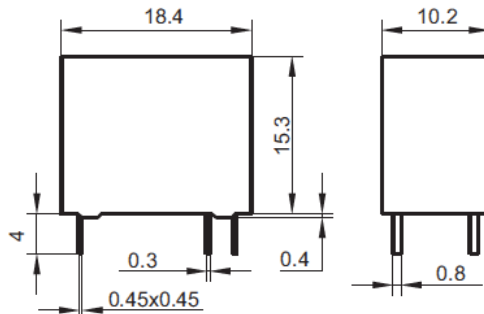
● Ordering Information

		GC	-12VDC	-A	45	- S	10	(XXX)
Model								
Coil Voltage	3, 5, 6, 9, 12, 18, 24, 48 VDC							
Contact Arrangement	A: 1 Form A C: 1 Form C							
Coil Power	45: 450mW 20: 200mW (only for 1 Form A)							
Construction	Nil: Flux tight S: Sealed							
Contact Current	Nil: 5A 10: 10A(only for 1 Form A)							
Special Code	Nil: Standard XXX: Customer special requirement							

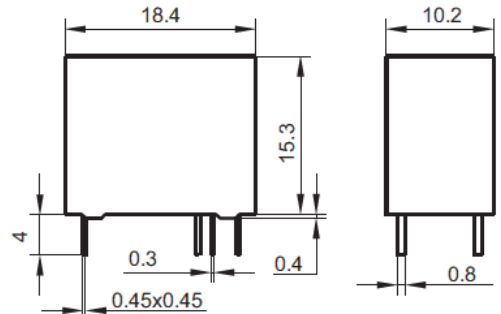
● Dimensions (UNIT: mm)

Outline Dimensions

1 Form A

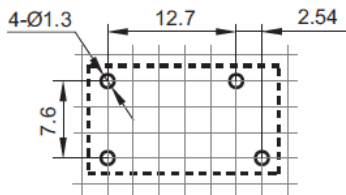


1 Form C

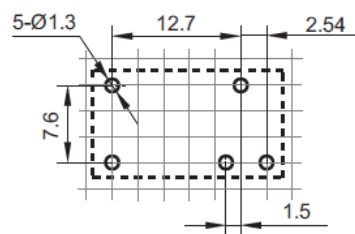


Mounting (Bottom views)

1 Form A



1 Form C



Wiring Diagram (Bottom views)

1 Form A



1 Form C

