

14.3×7.5 (15.7) ×13.8

# NG8N&NG8NW

### Features

- Small size, light weight.
- Low coil consumption.
- Switching capacity up to 25A motor lock load.
- High performance PCB relay.
- Suitable for household electrical appliance, automation system.

### Ordering Information

**NG8N 1S C DC12V 0.80**  
 1 2 3 4 5

1 Part number: NG8N NG8NW  
 2 Sensitivity: 1:Standard; 1S:High sensitivity; 1L:High temperature; 1H:High temperature/High sensitivity  
 3 Contact arrangement: C:1C; 2C:2C  
 4 Coil rated voltage(V): DC:12  
 5 Coil power consumption: 0.64:0.64W; 0.80:0.80W

### Contact Data

Contact Arrangement	1C (SPDT(B-M)) 2C (DPDT(B-M))	
Contact Material	AgSnO <sub>2</sub>	
Contact Current	25A motor lock (14VDC)	
Max. Switching Power	480W	
Max. Switching Voltage	16VDC	Max. Switching Current:30A
Contact Resistance or Voltage drop	< 250mV (at 10A)	Item 4.12 of IEC 61810-7
Operation life	Electrical	10 <sup>6</sup> Item 4.30 of IEC 61810-7
	Mechanical	10 <sup>6</sup> Item 4.31 of IEC 61810-7

### Coil Parameter

Model	Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC(max)	Release voltage VDC(min) (8.3% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
1	12	16	225	7.2	1.0	0.64		
1S	12	16	180	6.5	1.0	0.80	<10	<5
1L	12	16	225	7.2	1.0	0.64		
IH	12	16	180	6.5	1.0	0.80		

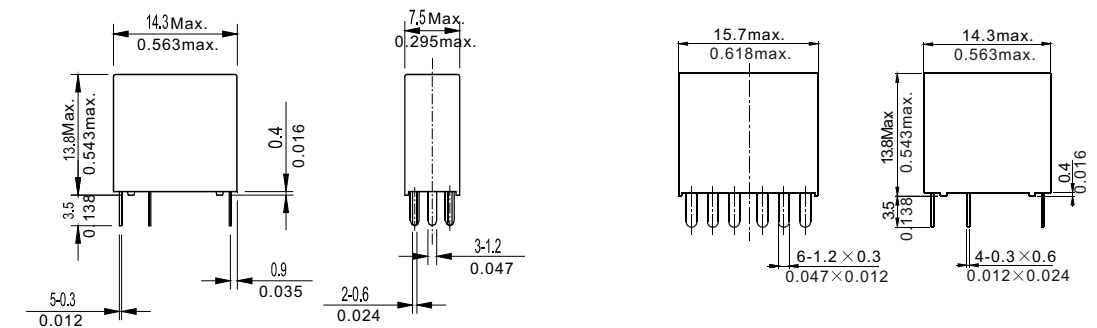
**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

### Operation condition

Insulation Resistance	100MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength	Between contacts	50Hz 500V
	Between contact and coil	50Hz 1000V
Item 6 of IEC 60255-5		Item 6 of IEC 60255-5
Item 6 of IEC 60255-5		Item 6 of IEC 60255-5
Shock resistance	98m/s <sup>2</sup> 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~500Hz Acceleration: 43.1m/s <sup>2</sup>	IEC 68-2-6 Test Fc
Terminals strength	5N	IEC 68-2-21 Test Ua1
Solderability	235°C ± 2°C 3s ± 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40°C~105°C	
Relative Humidity	85% (at 40°C)	IEC 68-2-3 Test Ca
Mass	4.1g 8g(NG8NW)	

### Dimensions

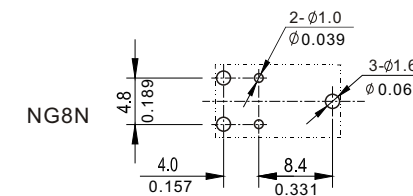
mm /inch



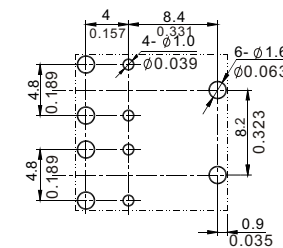
NG8N

NG8NW

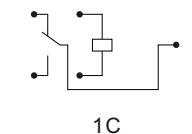
Dimensions



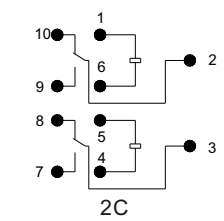
NG8NW



Mounting (Bottom view)



1C



2C

Wiring diagram (Bottom view)

NOTES 1).Dimensions are in millimeters.  
 2).Inch equivalents are given for general information only.