



17.5×6.5×12.5

N G 6 D

Features

- Small size, light weight.
- Low coil power consumption 0.2W.
- PC board mounting.
- Suitable for household electrical appliance, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

Contact Data

Contact Arrangement	1A		
Contact Material	Silver Alloy		
Contact Rating (resistive)	5A/30VDC, 250VAC ;		
Max. Switching Power	150W 1250VA	min Load: 10mA/5VDC	
Max. Switching Voltage	30VDC 250VAC	Max. Switching Current: 5A	
Contact Resistance & Voltage drop	≤100mΩ	Item 3.12 of IEC255-7	
Operation life	Electrical	1 × 10 ⁵	Item 3.30 of IEC255-7
	Mechanical	2 × 10 ⁷	Item 3.31 of IEC255-7

CAUTION:

Relays previously tested or used above 10mA resistive at 6VDC maximum or peak AC open circuit are not recommended for subsequent use in low level applications.

Coil Parameter

Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(max) (75% of rated voltage)	release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
Rated	Max.						
5	6.5	125	3.75	0.5	0.2W	≤10	≤5
12	15.6	720	9.00	1.2			
24	31.2	2880	18.0	2.4			

- 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	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 750V	Item 6 of IEC255-5
Between contact and coil	50Hz 3000V Surge voltage: 6kV	Item 6 and 8 of IEC255-5
Shock resistance	Functional : 100m/s ² 11ms Endurance: 1000m/s ² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz Functional double amplitude 1.5mm Endurance: double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	230℃ ±2℃ 10 ±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-25~70℃	
Relative Humidity	35%~85%	IEC68-2-3 Test Ca
Mass	3g	

Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Ordering Information			
NG6D	A	DC12V	
			Coil rated DC Voltage 5V, 12V, 24V
			Contact Arrangement: A: 1A
			Part number: NG6D

Dimensions (Unit: mm)			
<p>Dimensions</p>	<p>Wiring diagram (Bottom views)</p>	mm	inch
		0.3	0.012
		0.6	0.020
		0.8	0.031
		1.1	0.043
		1.13	0.044
		2.54	0.100
		3.5	0.138
		5.08	0.200
		6.5	0.244
7.62	0.300		
12.5	0.492		
15.24	0.600		
17.5	0.689		

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