



20.5×7.2×15.3

# NG5N

UL E158859

Features
<ul style="list-style-type: none"> <li>Small size, light weight.</li> <li>Switching capacity up to 5A.</li> <li>Low coil power consumption 0.2W.</li> <li>Suitable for household electrical appliances, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.</li> </ul>

Ordering Information	
<b>NG5N</b> <b>A</b> <b>DC12V</b> 1      2      3	
1 Part number: NG5N	3 Coil rated voltage (V): DC:3,5,6,9,12,18,24
2 Contact arrangement: A:1A	

Contact Data			
Contact Arrangement	1A (SPSTNO)		
Contact Material	Silver Alloy		
Contact Rating (resistive)	5A/30VDC, 250VAC		
Max. Switching Power	150W	1250VA	min Switching load: 10mA/5V
Max. Switching Voltage	30VDC	250VAC	Max. Switching Current: 5A
Contact Resistance or Voltage drop	<100mΩ	Item 3.12 of IEC255-7	
Operational life	Electrical	10 <sup>5</sup>	Item 3.30 of IEC255-7
	Mechanical	10 <sup>7</sup>	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.

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC (max) (75% of rated voltage)	Release voltage VDC (min) (5% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
003-200	3	3.9	45	2.25	0.3	0.2	<10	<5
005-200	5	6.5	125	3.75	0.5			
006-200	6	7.8	180	4.50	0.6			
009-200	9	11.7	405	6.75	0.9			
012-200	12	15.6	720	9.00	1.2			
018-200	18	23.4	1620	13.5	1.8			
024-200	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	50Hz 750V	Item 6 of IEC255-5
Between contact and coil	50Hz 4000V surge voltage: 7kV	Item 6 and 8 of IEC255-5
Shock resistance	Functional: 100m/s <sup>2</sup> 11ms Survival: 1000m/s <sup>2</sup> 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~50Hz Functional & Survival double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235°C ± 2°C 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-30~70°C	
Relative Humidity	20%~85% (at 40°C)	IEC68-2-3 Test Ca
Mass	4g	

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

Safety approvals	
Safety approval	UL & CUR
Load	5A/250VAC, 30VDC

Dimensions	mm /inch
<p>Dimensions</p>	
<p>Wiring diagram (Bottom view)</p>	
<p>Mounting (Bottom view)</p>	
<p>NOTES 1). Dimensions are in millimeters.                      2). Inch equivalents are given for general information onl</p>	