

N4100 (4100F) & N4100F-2 (N4100F)



15.5×11×11.5

**us** E158859

Patent No. : 95 2 11073.3

**Features**

- Low coil power consumption.
- High sensitivity.
- Small size, light weight.
- PC board mounting.
- Suitable for automation facilities, telecommunication equipment, household electrical appliance, wireless radio remote control, sound control toys application etc.

**Ordering Information**

**N4100** C H S 3 DC12V  
 1 2 3 4 5 6

1 Part number : N4100(N4100F) N4100F-2

2 Contact arrangement : A:1A ; B:1B ; C:1C

3 Coil power consumption : NIL:0.36W ( Standard ) ;  
 B:0.45W ( Heavy load ) ; H:0.2W ( High sensitivity )

4 Enclosure : S: Sealed type ; NIL: Dust cover

5 Contact current : NIL:1A ; 3:3A ; 5:5A

6 Coil rated Voltage(V) : DC:3,5,6,9,12,24

**Contact Data**

Contact Arrangement 1A ( SPSTNO ) 1B ( SPSTNC ) 1C ( SPDT(B-M) )  
 Contact Material Ag AgNi Ag-CdO  
 Contact Rating ( resistive ) 1A,3A,5A/125VAC; 1A,2A,3A/30VDC ;5A/14VDC,30VDC  
 Max. Switching Power 90W 625VA  
 Max. Switching Voltage 60VDC 220VAC Max. Switching Current: 5A  
 Contact Resistance or Voltage drop ≤50m Item 3.12 of IEC255-7  
 Operation Electrical 10<sup>5</sup> Item 3.30 of IEC255-7  
 life Mechanical 10<sup>7</sup> Item 3.31 of IEC255-7

**Coil Parameter**

Dash Numbers	Coil voltage VDC		Coil resistance ±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.						
003-200	3	3.3	45	2.25	0.3	0.2	5	5
005-200	5	5.5	125	3.75	0.5			
006-200	6	6.6	180	4.50	0.6			
009-200	9	9.9	405	6.75	0.9			
012-200	12	13.2	720	9.00	1.2			
024-200	24	26.5	2880	18.0	2.4			
003-360	3	3.3	25	2.25	0.3	0.36	5	5
005-360	5	5.5	75	3.75	0.5			
006-360	6	6.6	100	4.50	0.6			
009-360	9	9.9	225	6.75	0.9			
012-360	12	13.2	400	9.00	1.2			
024-360	24	26.5	1600	18.0	2.4			
003-450	3	3.3	20	2.25	0.3	0.45	5	5
005-450	5	5.5	56	3.75	0.5			
006-450	6	6.6	80	4.50	0.6			
009-450	9	9.9	180	6.75	0.9			
012-450	12	13.2	320	9.00	1.2			
024-450	24	26.5	1280	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	100M min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 500V	Item 6 of IEC255-5
Shock resistance	100m/s <sup>2</sup> 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Stability	235 ± 2 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-25~70	
Relative Humidity	85% (at 40 °C)	IEC68-2-3 Test Ca
Mass	3.5g	

**Qualification inspection:**

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

**Safety approvals**

Safety approval	UL&CUR
Load	3A 5A/125VAC 3A/30VDC 5A/14VDC

**Dimensions (Unit: mm)**

	mm	inch
0.3	0.3	0.012
0.6	0.6	0.024
1.0	1.0	0.039
1.4	1.4	0.055
2.54	2.54	0.100
3.0	3.0	0.118
3.6	3.6	0.142
7.62	7.62	0.300
10.16	10.16	0.400
11	11	0.433
11.5	11.5	0.453
15.5	15.5	0.610

Mounting (Bottom views)

Wiring diagram (Bottom views)

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

**Reference Data**

