

 158859
Patent No.: 03141569.5 2003255537.5

Features

- DIL pitch terminals .Surface mount type with “L” shaped teminal;
- Conforms to FCC Part 68 2.5kV Surge and Dielectric 1500VAC;
- High contact capacity 2A/30VDC;
- Application for Telecommunication Equipment,Office Equipment, Security Alarm Systems, Measuring instruments, Medical Monitoring Equipment,Audio Visual Equipment, Flight Simulator,Sensor Control.

Ordering Information

NX 2 SA L H 12 W
1 2 3 4 5 6 7

- | | |
|-------------------------------------|---|
| 1 Part number: NX | 4 Operating function: Nil: Single Side Stable; |
| 2 Contact arrangement: 2:2C | L:1 Coil Latching |
| 3 Mount: NIL:DIL; SA: Standard SMT; | 5 Terminal: NIL: Standard DIL or SMT; H:Self-clinching terminal |
| SL: High connection reliability SMT | 6 Coil rated Voltage(V): DC:3,4,5,5,6,9,12,24 |
| | 7 Contact Material: NIL:AgPd W:AgNi |

Contact Data

Contact Arrangement		2C (DPDT(B-M))	
Contact Material		AgPd(Gold clad) AgNi(Gold clad)	
Contact Rating (resistive)		2A/30VDC 0.5A/125VAC	
Max. Switching Power		60W, 62.5VA	Min. Switching load: 0.01mA/10mV (Reference Value)
Max. Switching Voltage		220VDC, 250VAC	Max. Switching Current:2A
Contact Resistance or Voltage drop		≤70mΩ(80 mΩSMT)	Item 4.12 of IEC 61810-7
Operational life	Electrical	1A/30VDC: 5×10 ⁵ 2A/30VDC: 1×10 ⁵	Item 4.30 of IEC 61810-7
	Mechanical	10 ⁵	Item 431 of IEC 61810-7

CAUTION:

Relays previously tested or used above 10mAresistive at 6V maximum (DC or peak AC) open circuit are not recommended for subsequent use in low level applications.

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pick up voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power W	Operate Time ms	Release /Reset Time ms
	Rated	Max.						
NX2-003	3	4.5	64.3	2.25	0.3	0.14	≤4	≤4
NX2-004	4.5	6.7	145	3.38	0.45	0.14		
NX2-005	5	7.5	178	3.75	0.5	0.14		
NX2-006	6	9.0	257	4.50	0.6	0.14		
NX2-009	9	13.5	579	6.75	0.9	0.14		
NX2-012	12	18.0	1028	9.00	1.2	0.14		
NX2-024	24	36.0	2880	18.0	2.4	0.20		
1 Coil Latching					Reset(Max)			Reset
NX2L-003	3	4.5	90	2.25	-2.25	0.10	≤4	≤4
NX2L-004	4.5	6.7	202.5	3.38	-3.38	0.10		
NX2L-005	5	7.5	250	3.75	-3.75	0.10		
NX2L-006	6	9.0	360	4.50	-4.50	0.10		
NX2L-009	9	13.5	810	6.75	-6.75	0.10		
NX2L-012	12	18.0	1440	9.00	-9.00	0.10		
NX2L-024A	24	36.0	3840	18.0	-18.0	0.15		

Coil Parameter

Dash Numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pick up voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power W	Operate Time ms	Release /Reset Time ms
	Rated	Max.						
NX2SA-003	3	4.5	64.3	2.25	0.3	0.14	≤4	≤4
NX2SA-004	4.5	6.7	145	3.38	0.45	0.14		
NX2SA-005	5	7.5	178	3.75	0.5	0.14		
NX2SA-006	6	9.0	257	4.50	0.6	0.14		
NX2SA-009	9	13.5	579	6.75	0.9	0.14		
NX2SA-012	12	18.0	1028	9.00	1.2	0.14		
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NX2SAL-009	9	13.5	810	6.75	-6.75	0.10		
NX2SAL-012	12	18.0	1440	9.00	-9.00	0.10		
NX2SAL-024A	24	36.0	3840	18.0	-18.0	0.15		
1Coil Latching					Reset(Max)			Reset
NX2SLL-003	3	4.5	90	2.25	-2.25	0.10	≤4	≤4
NX2SLL-004	4.5	6.7	202.5	3.38	-3.38	0.10		
NX2SLL-005	5	7.5	250	3.75	-3.75	0.10		
NX2SLL-006	6	9.0	360	4.50	-4.50	0.10		
NX2SLL-009	9	13.5	810	6.75	-6.75	0.10		
NX2SLL-012	12	18.0	1440	9.00	-9.00	0.10		
NX2SLL-024A	24	36.0	3840	18.0	-18.0	0.15		

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(reset) voltage are for test purposes only and are not to be used as design criteria.
- 3.When latching relays are installed in equipment, the latch and reset coil should not be pulsed simultaneously. Coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to be in the magnetically neutral position .
- 4.Unless otherwise stated, the rated coil voltage specified in coil parameter and its suitable polarity(if applicable) shall be used for all tests and its application to the relay.
- 5.Soldering and mounion recommendations for NX as same as P series.

Characteristics

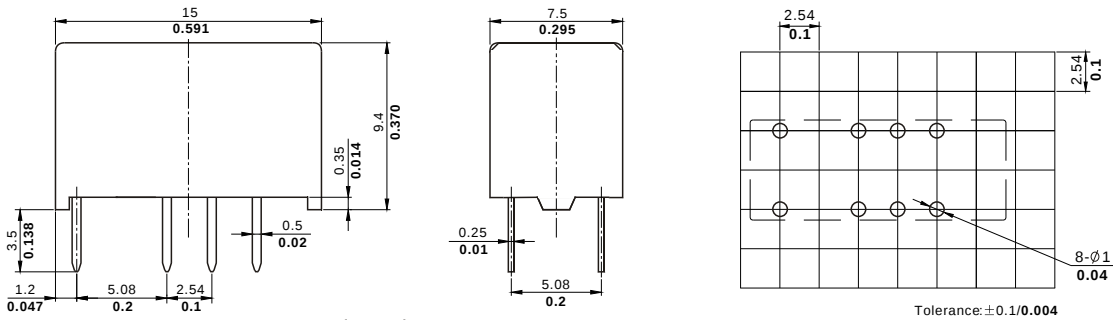
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength		
Between open Contacts	1000VAC 1min	Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Between coil & Contacts	1500VAC 1min	
Between Contact Poles	1000VAC 1min	
Surge Withstand Voltage		
Between open Contacts	1500V	FCC 68
Between coil & Contacts	2500V	FCC 68
Shock resistance	Functional:750m/s ² 11ms; Survival:1000 m/s ² 6ms	IEC 68-2-27 Test Ea
Vibration resistance	10~55Hz Double amplitude Functional:3.3mm Survival:5mm	IEC 68-2-6 Test Fc
Terminals strength	5N	IEC 68-2-21 Test Ua1
Solderability	235℃ ± 2℃ 3 ± 0.5s	IEC 68-2-20 Test Ta method 1
Temperature Range	-40~85℃ (-40~185 ° F)	
Relative Humidity	5% to 85%	IEC 68-2-3 Test Ca
Mass	2g	

Safety approvals

Safety approval	UL&CUR
Load	0.5A/125VAC 2A/30VDC

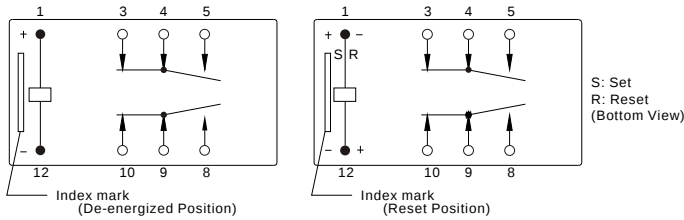
Dimensions

mm/inch



Dimensions

Mounting (Bottom view)

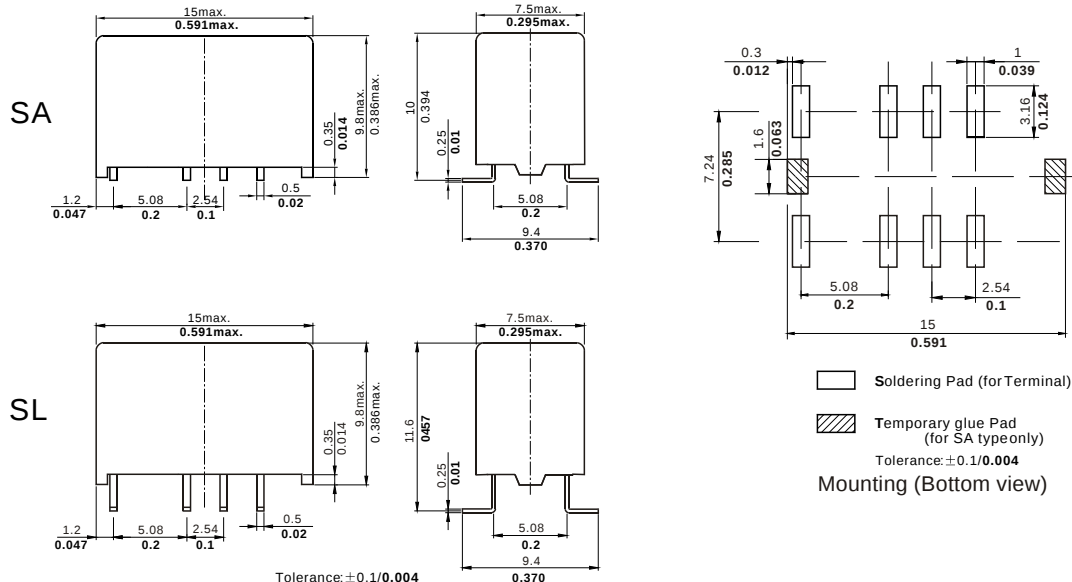


Wiring diagram(Bottom view)

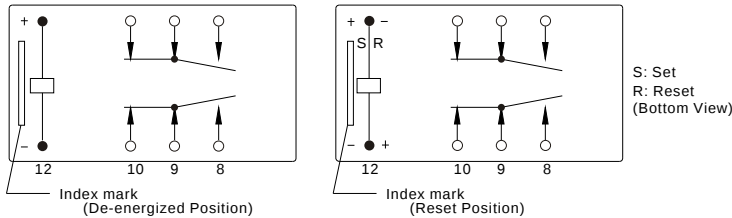
NOTES 1).Dimensions are in millimeters.
2).Inch equivalents are given for general information only.

Dimensions

mm/inch



Dimensions



Wiring diagram(Bottom view)

NOTES 1).Dimensions are in millimeters.
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