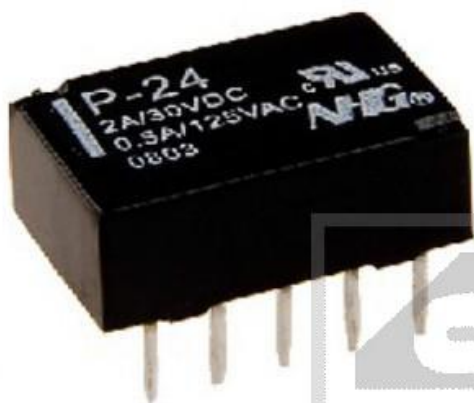




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Przełącznik P-24 NHG odp.TQ2-24V 1A 24VDC, 2 styki przełączne



Dane techniczne:

Nazwa: P-24

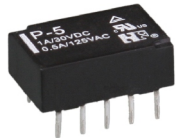
Konfiguracja styków: 2 styki przełączne

Napięcie cewki: 24VDC

Obciążalność styków: 1A

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14.0×9.0×5.0

P

UL E158859 R5604271
Patent No: 02217796.5

Features

- DIL Pitch Terminals .High Sensitivity :0.14W or 0.10W Nominal Power.
- Conforms to FCC Part 68 1.5kV Surge and Dielectric 1000VAC.
- Monostable or bistable relays Single and double Coil magnet latching Type available.
- Application for Telecommunication Equipment,Office Equipment,Security Alarm Systems, Measuring instruments, Medical Monitoring Equipment,Audio Visual Equipment, Flight Simulator,Sensor Control.

Ordering Information

$\frac{P}{1} \frac{L}{2} \frac{12}{3} \frac{W}{4}$

1 Part number: P
2 Operating function: NIL: Single Side Stable;
L:1 Coil Latching; K:2 Coil Latching
3 Coil rated voltage(V): DC:3,4,5,5,6,9,12,24
4 Contact material: NIL: AgPd; W: AgNi

Contact Data

Contact Arrangement	2C (DPDT(B-M)) (Bifurcated Crossbar)		
Contact Material	AgPd(Stationary Contact: Gold clad) AgNi(Gold clad)		
Contact Rating (resistive)	1A,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	≤50mΩ		Item 4.12 of IEC 61810-7
Operation life	Electrical	1A/30VDC: 2×10 ⁵ (Ag Ni: 1×10 ⁵) 0.5A/125VAC: 1×10 ⁵	Item 4.30 of IEC 61810-7
	Mechanical	10 ⁵	Item 4.31 of IEC 61810-7

CAUTION:

Relays previously tested or used above 10mA resistive 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.							
P-003	3	7.5	64.3		2.25	0.3	0.14	Approx.2	Approx.1
P-004	4.5	11.25	144.6		3.38	0.45	0.14		
P-005	5	12.5	178		3.75	0.5	0.14		
P-006	6	15.0	257		4.50	0.6	0.14		
P-009	9	22.5	579		6.75	0.9	0.14		
P-012	12	30.0	1028		9.00	1.2	0.14		
P-024	24	48.0	2880		18.0	2.4	0.20		
1 Coil Latching						Reset(Max)			Reset
PL-003	3	8.7	90		2.25	-2.25	0.10	Approx.2	Approx.1
PL-004	4.5	13.0	202.5		3.38	-3.38	0.10		
PL-005	5	14.5	250		3.75	-3.75	0.10		
PL-006	6	17.4	360		4.50	-4.50	0.10		
PL-009	9	26.1	810		6.75	-6.75	0.10		
PL-012	12	34.8	1440		9.00	-9.00	0.10		
PL-024	24	57.6	3840		18.0	-18.0	0.15		
2 Coil Latching			Set Coil	Reset Coil		Reset(Max)			Reset
PK-003	3	6	45	45	2.25	2.25	0.20	Approx.2	Approx.1
PK-004	4.5	9	101	101	3.38	3.38	0.20		
PK-005	5	10	125	125	3.75	3.75	0.20		
PK-006	6	12	180	180	4.50	4.50	0.20		
PK-009	9	18	405	405	6.75	6.75	0.20		
PK-012	12	24	720	720	9.00	9.00	0.20		
PK-024	24	36	1920	1920	18.0	18.0	0.30		

- 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 .

Characteristics

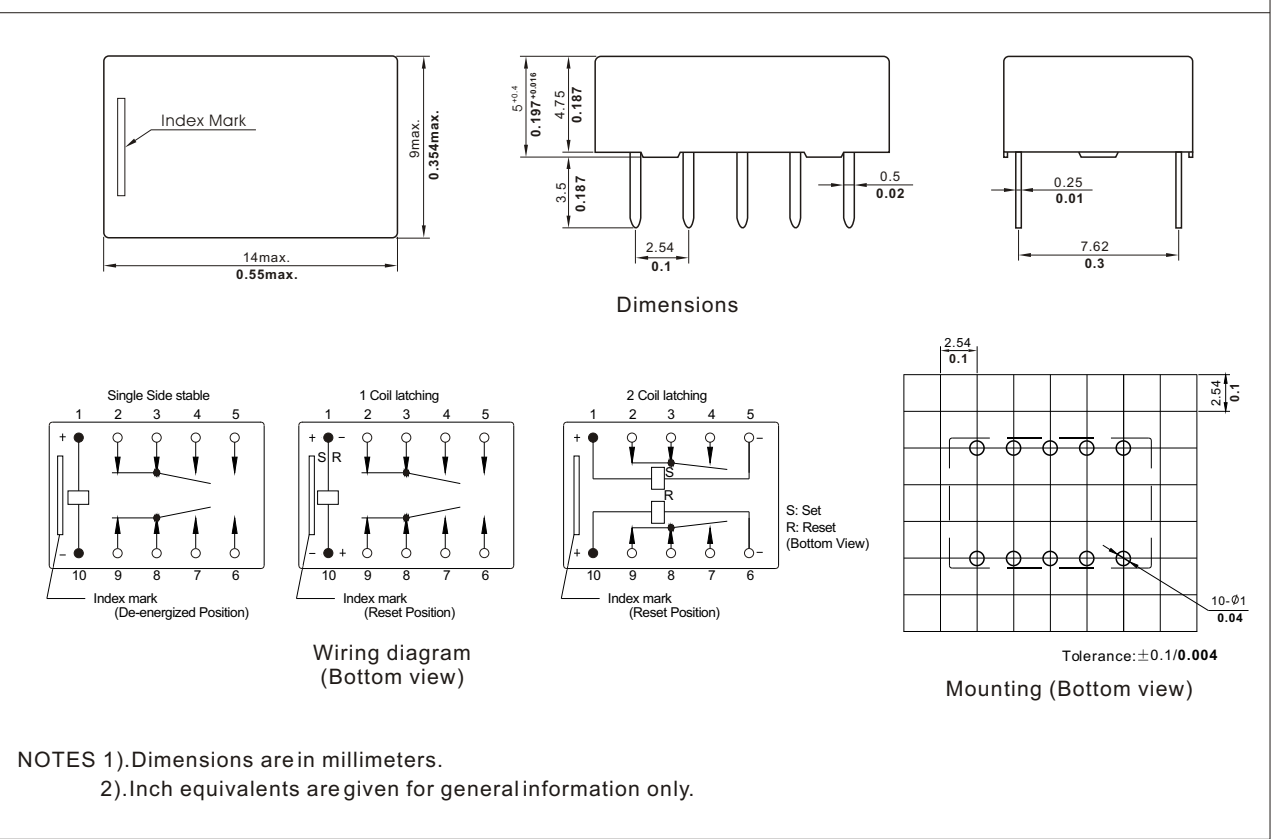
Electrostatic capacitance		
Between open Contacts	Approx.0.4pF	Item 4.41 of IEC 61810-7
Between coil & Contacts	Approx.0.9pF	Item 4.41 of IEC 61810-7
Between Contact Poles	Approx.0.2pF	Item 4.41 of IEC 61810-7
Insulation Resistance	1000MΩ min(at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength		
Between open Contacts	1000VAC 1min	Item 6 of IEC 61810-5
Between coil & Contacts	1000VAC 1min	Item 6 of IEC 61810-5
Between Contact Poles	1000VAC 1min	Item 6 of IEC 61810-5
Surge Withstand Voltage		
Between open Contacts	1500V	FCC68
Between coil & Contacts	1500V	FCC68
Between Contact Poles	2500V	FCC68
Shock resistance	Functional:500m/s ² 11ms; Survival:1000 m/s ² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz Double amplitude Functional: 3mm Survival:5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Temperature Range	-40~70℃ (-40~158° F)	
Mass	1.5g	

Safety approvals

Safety approval	UL&CUR	TUV
Load	1A,2A/30VDC, 0.5A/125VAC	1A/30VDC, 0.5A/125VAC

Dimensions

mm/inch

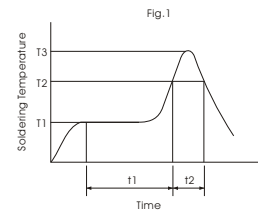


- NOTES
- 1).Dimensions are in millimeters.
 - 2).Inch equivalents are given for general information only.

SOLDERING and MOUNTING RECOMMENDATIONS

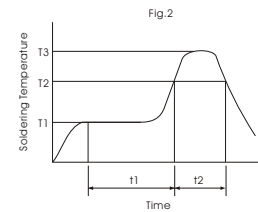
1. Conditions for Terminal Soldering by reflow soldering method

a. In case of Infrared Soldering



T1: +120to+150°C(+248to+302°F)
 T1: +180to+200°C(+356to+392°F)
 T1: +245°C(+473°F)Max.
 T2: +30Sec.Max.

b. In case of Vapor Phase Soldering



T1: +120to+150°C(+248to+302°F)
 T1: +180to+200°C(+356to+392°F)
 T1: +215°C(+419°F)Max.
 T1: +40to 60Sec
 T2: +60Sec.Max.

2. Usage of Stand-Off A & B in Base Area

The Stand-Offs shown in the Fig. 3 are designed to Anchor Relays temporarily to PC Board with glue before Terminal Soldering.

