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c **Su**us E158859

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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.

Contact Data						
Contact Arrangement		2C (Bifurcated Crossbar)	2C (Bifurcated Crossbar)			
Contact Material		Ag·Pd (Stationary Contact: Gold clad)	Ag·Pd (Stationary Contact: Gold clad)			
Contact Rating (resistive)		1A/30VDC; 0.5A/125VAC	1A/30VDC; 0.5A/125VAC			
Max. Switching Power		30W 62.5VA Min. Switching load: 0.01mA/10mV(Reference Value)				
Max. Switching Voltage		220VDC 250VAC Max. Switching Current:1A				
Contact Resistance or Voltage drop		≤50mΩ IEC255-7	Item 3.12 of			
Operation life	Electrical	1A/30VDC : 2x10 ⁵ (Ag Alloy : 1x10 ⁵) 0.5A/125VAC:1x10 ⁵ IEC255-7	Item 3.30 of			
	Mechanical	10 ⁸ IEC255-7	Item 3.31 of			

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 volt VDC	age	Coil resistance Ω±10%				Coil power	Operate Time	Release Time
Rated	Max.		(75% of rated voltage)	(10% of rated voltage)	W	ms	ms	
3	7.5	64.3	2.25	0.3	0.14			
5	12.5	178	3.75	0.5	0.14			
6	15.0	257	4.50	0.6	0.14	≤ 2	≤ 1	
9	22.5	579	6.75	0.9	0.14	~ ∠	~1	
12	30.0	1028	9.00	1.2	0.14			
24	48.0	2880	18.0	2.4	0.20			
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1 Coil La	atching			Reset (Max)			Reset
3	8.7	90	2.25	-2.25	0.10	€2	€2
5	14.5	250	3.75	-3.75	0.10		
6	17.4	360	4.5	-4.5	0.10		
9	26.1	810	6.75	-6.75	0.10		
12	34.8	1440	9.00	-9.00	0.10		
24	57.6	3840	18.0	-18.0	0.15		
2 Coil La	atching			Reset (Max)			Reset
3	6.0	45/45	2.25	2.25	0.20		
5	10.0	125/125	3.75	3.75	0.20		
6	12.0	180/180	4.50	4.50	0.20	≤ 2	≤2
9	18.0	405/405	6.75	6.75	0.20	₹2	⊸.∠
12	24.0	720/720	9.00	9.00	0.20		
24	40.8	1290/1290	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 voltage are for test purposes only and are not to be used as design criteria.

Qualification inspection:

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

Characteristics		
Electrostatic capacitance		
Between open Contacts	Approx.0.4pF	Item 3.41 of IEC255-7
Between coil & Contacts	Approx.0.9pF	Item 3.41 of IEC255-7
Between Contact Poles	Approx.0.2pF	Item 3.41 of IEC255-7
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength Between open Contacts Between coil & Contacts Between Contact Poles	1000VAC 1min 1000VAC 1min 1000VAC 1min	Item 6 of IEC255-7 Item 6 of IEC255-7 Item 6 of IEC255-7
Surge Withstand Voltage Between open Contacts Between coil & Contacts Between Contact Poles	1500V 1500V 2500V	FCC68 FCC68 FCC68
Shock resistance	Functional:500m/s ² 11ms; Endurance:1000 m/s ² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz Double amplitude Functional:3mm Endurance:5mm	IEC68-2-6 Test Fc

^{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 threetimes the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to in be the magnetically neutral position.

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Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	230°C±2°C 10±0.5s	IEC68-2-20 Test Ta method 1
Temperature Range	-40~70°C(-40~158°F)	
Weight	1.5g	_

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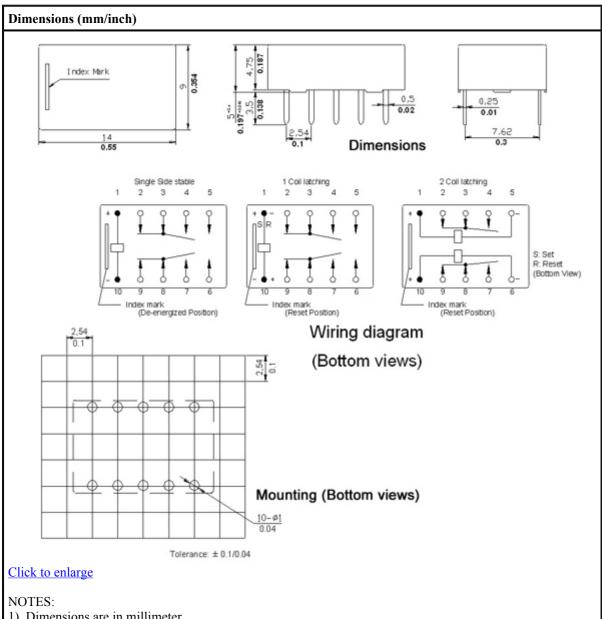
Ordering Information

P L 12

Nominal coil voltage: 3V, 5V, 6V, 9V, 12V, 24V

Operating Function: Nil:Single Side Stable; L:1 Coil Latching; K:2 Coil Latching

Type: P



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

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