14.2×9.3×5.3

PS

c UL us E169380 R50044271

Features

- Surface mount Type with "L " SMT shaped Terminals.
- 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

PS L 12 W
1 2 3 4

1 Part number: PS
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
Operational life	Electrical	2×10^5 (DC AgPd);1×10^5(DC AgNi) 1×10^5 (AC)	Item 4.30 of IEC61810-7
	Mechanical	10^8	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 Rated	Coil voltage VDC Max.	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
PS-003	3	7.5	64.3	2.25	0.3	0.14	Approx.2	Approx.1
PS-004	4.5	11.25	144.6	3.38	0.45	0.14		
PS-005	5	12.5	178	3.75	0.5	0.14		
PS-006	6	15.0	257	4.50	0.6	0.14		
PS-009	9	22.5	579	6.75	0.9	0.14		
PS-012	12	30.0	1028	9.00	1.2	0.14		
PS-024	24	48.0	2880	18.0	2.4	0.20		
1 Coil Latching					Reset(Max)			Reset
PSL-003	3	8.7	90	2.25	-2.25	0.10	Approx.2	Approx.2
PSL-004	4.5	13.0	202.5	3.38	-3.38	0.10		
PSL-005	5	14.5	250	3.75	-3.75	0.10		
PSL-006	6	17.4	360	4.50	-4.50	0.10		
PSL-009	9	26.1	810	6.75	-6.75	0.10		
PSL-012	12	34.8	1440	9.00	-9.00	0.10		
PSL-024	24	57.6	3840	18.0	-18.0	0.15		
2 Coil Latching			Set Coil	Reset Coil		Reset(Max)		Reset
PSK-003	3	6	45	45	2.25	2.25	0.20	Approx.2	Approx.2
PSK-004	4.5	9	101	101	3.38	3.38	0.20		
PSK-005	5	10	125	125	3.75	3.75	0.20		
PSK-006	6	12	180	180	4.50	4.50	0.20		
PSK-009	9	18	405	405	6.75	6.75	0.20		
PSK-012	12	24	720	720	9.00	9.00	0.20		
PSK-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 .

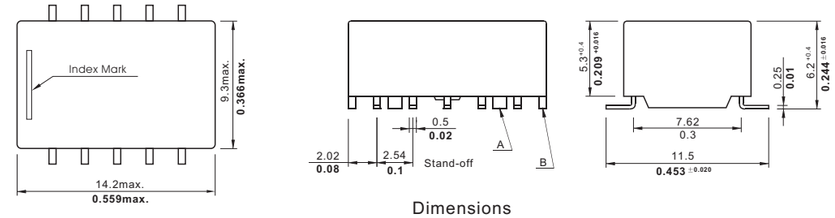
Characteristics

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/s² 11ms; Survival:1000 m/s² 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	-40~85℃(-40~185° F)	
Mass	1.5g	

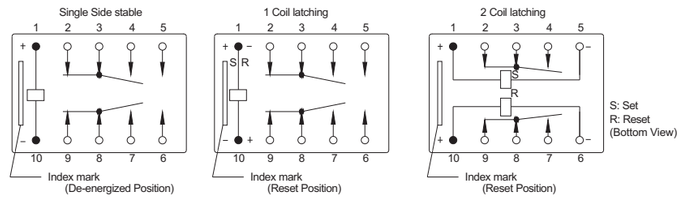
Safety approvals

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

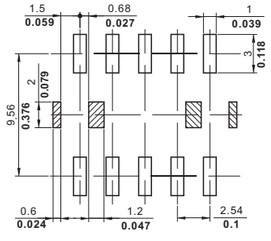
Dimensions mm/inch



Dimensions



Wiring diagram
(Bottom view)



Soldering Pad (for Terminal)

Temporary glue Pad
(for Stand-off A or B)
Tolerance ±0.1/±0.004

Mounting (Bottom view)

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