



 $14 \times 9 \times 5$

c**¶** us E169380 ♠ R50044271

Features

- $\mbox{\,}^{\mbox{\tiny \bullet}}$ DIL pitch terminals. High sensitivity :0.14W or 0.10W nominal power.
- Conforms to FCC Part 68 1.5kV surge and dielectric 1000VAC.
- Monostable, single or double coil latching relay .
- 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(DPDT)	(B-M)) (Bifurcated Crossbar)	
Contact Material		AgPd(Au plated) AgNi(Au plated)		
Contact Rating (Resistive)		1A,2A/30\	/DC; 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		≤50mΩ		Item 4.12 of IEC 61810-7
Operation Life	Electrical	2×10 ⁵ (D 1×10 ⁵ (A0	C AgPd);1×10 ⁵ (DC AgNi)	Item 4.30 of IEC 61810-7
2.10	Mechanical	1×10 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		Coil resistance	Pick-up voltage VDC(max)	Drop-out voltage VDC(min)	Coil	Operate	Release	
	Rated	Max.	$\Omega \pm 10\%$		(75%of rated voltage)	(10% of rated voltage)	power W	time ms	time ms
P-003	3	7.5		64.3	2.25	0.3	0.14		
P-004	4.5	11.25	1	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	Approx.2	Approx.1
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			Set	Reset(Max)		Set	Reset		
PL-003	3	8.7		90	2.25	-2.25	0.10		
PL-004	4.5	13.0	2	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	Approx.2	Approx.2
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 Coils Latching		Set Coil	ResetCoil	Set	Reset(Max)		Set	Reset	
PK-003	3	6	45	45	2.25	2.25	0.20		
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	Approx.2	Approx.2
PK-009	9	18	405	405	6.75	6.75	0.20	''	''
PK-012 PK-024	12 24	24 36	720 1920	720 1920	9.00 18.0	9.00 18.0	0.20 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 fortest purposes only and are not to be used as design criteria.

^{3.} When latching relays are installed in equipment, the set and reset coil should not be powered 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 4.11 of IEC 61810-7
Dielectric Strength		
Between Open Contacts	1000VAC 1min	
Between Coil & Contacts	1000VAC 1min	Item 4.9 of IEC 61810-7
Between Contact Poles	1000VAC 1min	
Surge Withstand Voltage		
Between Open Contacts	1500V	
Between Coil & Contacts	1500V	FCC68
Between Contact Poles	2500V	
Shock Resistance	Functional:490m/s ² 11ms; Destructive:980 m/s ² 6ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude Functional: 3mm Destructive:5mm	Item 4.28 of IEC 61810-7
Terminals Strength	5N	Item 4.24 of IEC 61810-7
Temperature Range	-40℃~70℃(-40° F~158° F)	
Mass	Approx. 1.5g	Item 4.7 of IEC 61810-7

Safety Approvals

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

