



M4

c**™**°us E158859 ▲ R50044268

Features

- DIL Pitch Terminals .High Sensitivity.
- Conforms to FCC Part 68 1.5kV Surge and Dielectric 1000VAC.
- Fully sealed (immersion cleaning).
- High Reliability bifurcated Contact.
- Application for Telecommunication Equipment,Office Equipment,Security Alarm Systems,Measuring instruments, Medical Monitoring Equipment, Audio Visual Equipment, Flight Simulator, Sensor Control.

Ordering Information				
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1 Part mumber: M4 2 Coil rated voltage: DC:3:3V; 5:5V; 6:6V; 9:9V; 12:12V; 18:18V; 24:24V; 48:48V	3 Enclosure: H: Sealed Type 4 Nominal coil power: Nil:0.15W; A:0.2W; M:0.45W 5 Contact material: Nil: AgPd; W: AgNi			

Contact Data

ngement	2C (DPDT(B-M)) (Bifurcated Crossbar)	
erial	AgPd(Gold clad) AgNi(Gold clad)	
ng (resistive)	1A/24VDC; 0.5A/120VAC	
ng Power	60W 125VA	Min. Switching load: 0.01mA/10mV (Reference Value)
ng Voltage	220VDC 250VAC	Max. Switching Current:2A
istance or	≪50mΩ	Item 4.12 of IEC 61810-7
Electrical	1A/24VDC: 5×10 ⁵ (Ag Ni : 1×10 ⁵) 0.5A/120VAC: 2×10 ⁵	Item 4.30 of IEC 61810-7
Mechanical	10 ⁸	Item 4.30 of IEC 61810-7
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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

Dash numbers	Coil voltage VDC		Coil resistance	Pick up voltage VDC(max) (70% or 66%of rated	Release voltage VDC(min) (5% or 10% of	Coil power	Operate Time	Release Time
Hambers	Rated	Max.	$\Omega \pm 10\%$	voltage)	rated voltage)	W	ms	ms
M4-003	3	7.5	60	2.1	0.15	0.15		
M4-005	5	12.5	167	3.5	0.25	0.15		
M4-006	6	15.0	240	4.2	0.3	0.15		
M4-009	9	22.5	540	6.3	0.45	0.15	Approx.	Approx.
M4-012	12	30.0	960	8.4	0.6	0.15	4.5	1.5
M4-018	18	40.0	1620	12.6	0.9	0.20		
M4-024	24	52.9	2880	16.8	1.2	0.20		
M4-048	48	84.9	7680	33.6	2.4	0.30		
M4-003A	3	6.5	45	2.1	0.3	0.2		
M4-005A	5	10.8	125	3.5	0.5	0.2		
M4-006A	6	13.0	180	4.2	0.6	0.2		
M4-009A	9	19.5	405	6.3	0.9	0.2	Approx.	Approx.
M4-012A	12	26.5	720	8.4	1.2	0.2	4.5	1.5
M4-024A	24	52.9	2880	16.8	2.4	0.2		
M4-048A	48	103.9	11520	33.6	4.8	0.2		
M4-005M	5	7.7	56	3.3	0.5	0.45		
M4-006M	6	9.2	80	4.0	0.6	0.45		
M4-009M	9	13.7	180	6.0	0.9	0.45		
M4-012M	12	18.3	320	8.0	1.2	0.45	Approx.	Approx.
M4-018M	18	27.5	720	12.0	1.8	0.45	4.5	1.5
M4-024M	24	36.7	1280	15.9	2.4	0.45		
M4-048M	48	72.5	5000	33.0	4.8	0.45		

- 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.
 3. Unless otherwise stated, the rated coil voltage specified in coil parameter table shall be used for all tests and its application to the relay.

Characteristics

Electrostatic capacitance		
Between open Contacts	Approx.0.7pF	Item 4.41 of IEC 61810-7
Between coil & Contacts	Approx.1.0pF	Item 4.41 of IEC 61810-7
Between Contact Poles	Approx.0.9pF	Item 4.41 of IEC 61810-7
Insulation Resistance	1000M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength		
Between open Contacts	1000VAC 1min	Item 6 of IEC 60255-5
Between coil & Contacts	1000VAC 1min	Item 6 of IEC 60255-5
Between Contact Poles	1000VAC 1min	Item 6 of IEC 60255-5
Surge Withstand Voltage		
Between open Contacts	1500V	FCC 68
Between coil & Contacts	1500V	FCC 68
Between Contact Poles	1500V	FCC 68
Shock resistance	Functional:100m/s ² 11ms; Survival:1000 m/s ² 6ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz Double amplitude Functional:1.5mm Survival:5mm	IEC 68-2-6 Test Fc
Terminals strength	5N	IEC 68-2-21 Test Ua1
Solderability	235℃ ± 2℃ 3s ± 0.5s	IEC 68-2-20 Test Ta method 1
Temperature Range	-40℃~90℃(-40° F~194° F) (-40℃~80℃ for 0.3W,0.45W Coil)	
Mass	Approx. 4.5g	

Safety approvals

Safety approval	UL&CUR	TUV
Load	1A/24VDC 0.5A/120VAC	1A/24VDC、0.5A/120VAC





