

M1B

c**¶**°us E169380 ♠ 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 $\underline{\mathbf{M1B}}_{1} \quad \underline{\mathbf{12}}_{2} \quad \underline{\mathbf{H}}_{3} \quad \underline{\mathbf{A}}_{4} \quad \underline{\mathbf{W}}_{5}$ 3 Enclosure: H: Sealed Type 4 Nominal coil power: Nil:0.55W; A:0.4W 1 Part number: M1B 2 Coil rated voltage: DC:3:3V; 5:5V; 6:6V; 9:9V; 5 Contact material: Nil: AgPd; W: AgNi 12:12V; 24:24V; 48:48V

Contact Data

Contact Arrang	gement	2C (DPDT(B-M)) (Bifurcated Crossl	oar)	
Contact Material		AgPd(Gold clad) AgNi(Gold clad)		
Contact Rating (resistive)		0.01mA/10mV to 1A/24VDC; 0.5A/120VAC		
Max. Switching Power		60W 125VA	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 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 4.31 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		0011	Pick up voltage VDC(max)	Release voltage VDC(min)	Coil	Operate Time	Release Time
	Rated	Max.	$\Omega \pm 10\%$	(70% of rated voltage)	(10% of rated voltage)	W	ms	ms
M1B-003	3	4.2	16	2.1	0.3	0.56		
M1B-005	5	7.0	45	3.5	0.5	0.56		
M1B-006	6	8.4	66	4.2	0.6	0.55		
M1B-009	9	12.3	140	6.3	0.9	0.58	Approx. 5	Approx. 3
M1B-012	12	17.4	280	8.4	1.2	0.52		
M1B-024	24	34.0	1070	16.8	2.4	0.54		
M1B-048	48	64.9	3900	33.6	4.8	0.59		
M4D 002A	2	4.0	22.5	2.4	0.2	0.4		
M1B-003A M1B-005A	3 5	4.9 8.1	22.5 62.5	2.1 3.5	0.3 0.5	0.4 0.4		
M1B-005A	6	9.7	90	4.2	0.5	0.4		
M1B-000A	9	14.5	203	6.3	0.0	0.4	Approx. 5	Approx. 3
M1B-003A	12	19.4	360	8.4	1.2	0.4		
M1B-012A	24	38.9	1440	16.8	2.4	0.4		
M1B-048A	48	77.8	5760	33.6	4.8	0.4		

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.

Characteristics

Electrostatic conscitance		
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)	Item7 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	1500V	FCC68
Between Contact Foles	10001	1 0000
Shock resistance	Functional:100m/s ² 11ms; Survival:1000 m/s ² 6ms	IEC68-2-27 TestEa
Vibration resistance	10~55Hz Double amplitude Functional:1.5mm Survival:5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3±0.5s	IEC68-2-20 TestTa method1
Temperature Range	-40~65℃(-40~149°F) (-40~70℃ for 0.4W Coil)	
Mass	4.5g	

Safety approvals

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

Dimensions mm/inch 9.8max. 0.386max. 0.787max Wiring diagram (Bottom view) 0.01 Dimensions Tolerance: ±0.1/±0.004 Mounting (Bottom view) NOTES 1). Dimensions are in millimeters. 2).Inch equivalents are given for general information only.