



20×10×11

# M1B

c  us E169380  R50044268

## Features

- DIL pitch terminals. High sensitivity.
- Conforms to FCC Part 68 1.5kV surge and dielectric 1000VAC.
- 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

**M1B - 12 H A W**  
1 2 3 4 5

1 Part number: M1B  
2 Coil rated voltage: DC:3:3V; 5:5V; 6:6V; 9:9V;  
12:12V; 24:24V; 48:48V

3 Enclosure: H: Wash tight  
4 Nominal coil power: Nil:0.55W; A:0.4W  
5 Contact material: Nil: AgPd; W: AgNi

## Contact Data

Contact Arrangement	2C(DPDT(B-M)) (Bifurcated Crossbar)	
Contact Material	AgPd(Au plated) AgNi(Au plated)	
Contact Rating	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	≤50mΩ	Item 4.12 of IEC 61810-7
Electrical Endurance	1A/24VDC:5×10 <sup>5</sup> (Ag Ni:1×10 <sup>5</sup> ) 2A/30VDC:1×10 <sup>5</sup> 0.5A/120VAC:2×10 <sup>5</sup>	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10 <sup>8</sup>	Item 4.31 of IEC 61810-7

**Notes:** 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 Ω ± 10%	Pick-up voltage VDC(max) (70% of rated voltage )	Drop-out voltage VDC(min) ( 10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max.						
M1B-003	3	4.2	16	2.1	0.3	0.56	Approx. 4.5	Approx. 1.5
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		
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		
M1B-003A	3	4.9	22.5	2.1	0.3	0.4	Approx. 4.5	Approx. 1.5
M1B-005A	5	8.1	62.5	3.5	0.5	0.4		
M1B-006A	6	9.7	90	4.2	0.6	0.4		
M1B-009A	9	14.5	203	6.3	0.9	0.4		
M1B-012A	12	19.4	360	8.4	1.2	0.4		
M1B-024A	24	38.9	1440	16.8	2.4	0.4		
M1B-048A	48	77.8	5760	33.6	4.8	0.4		

**Notes:** 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2. Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.





