- 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

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: Sealed Type
4 Nominal Coil Power：Nil:0.55W；A:0.4W
5 Contact Material：Nil: Ag·Pd； W: Ag·Ni

Contact Data

Contact Arrangement		2C （DPDT(B-M)） (Bifurcated Crossbar)	
Contact Material		Ag·Pd(Gold clad) Ag·Ni(Gold clad)	
Contact Rating (resistive)		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 3.12 of IEC255-7
Operation life	Electrical	1A/24VDC：5×10^5 （Ag Alloy ： 1×10^5 ） 0.5A/120VAC：2×10^5	Item 3.30 of IEC255-7
	Mechanical	10^8	Item 3.31 of IEC255-7

CAUTION:

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 Ω±10%	Pick up voltage VDC(max) (70% of rated voltage)	release 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		
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	≤5	≤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		
M1B-003A	3	4.9	22.5	2.1	0.3	0.4		
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	≤5	≤3
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		

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

Surge Withstand Voltage		
Between open Contacts	1500V	FCC68
Between coil & Contacts	1500V	FCC68
Between Contact Poles	1500V	FCC68
Shock resistance	Functional:100m/s^2 11ms; Survival:1000 m/s^2 6ms	IEC68-2-27 Test Ea
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 Test Ta method 1
Temperature Range	-40~65℃(-40~149° F) (-40~70℃ for 0.4W Coil)	
Mass	4.5g	

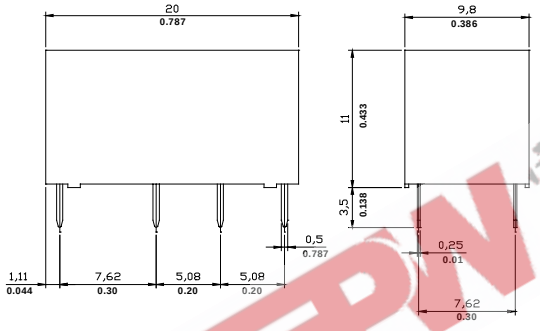
Qualification inspection:

Perform the qualification test as specified in the table Ⅳ of IEC255-19-1 and minimum sample size24.

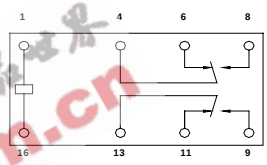
Safety approvals

Safety approval	UL&CUR
Load	1A/24VDC 0.5A/125VAC

Dimensions **mm/inch**

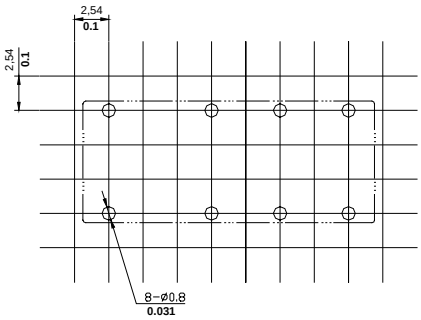


Dimensions



Wiring diagram

(Bottom views)



Tolerance: ±0.1/±0.004

Mounting (Bottom views)

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.