

M1BS

us E158859 A R50044268

Patent No.: 02265923.4

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	Ordering Information					
M ₁ BS	<u>12</u>	H	\mathbf{A}	\mathbf{W}		
1	2	3	4	5		
1 Part number: M1BS 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: W: AgNi			

Contact Data

Contact Arrangement		2C (DPDT(B-M))	
Contact Materi	al	AgNi(Gold clad)	
Contact Rating	(resistive)	2A/30VDC; 0.6A/125VAC	
Max. Switching Power		60W 125VA	Min. Switching load: 1mA/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	1×10 ⁵	Item 4.30 of IEC 61810-7
Life	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	Coil voltage VDC		Coil resistance	Pick up voltage VDC(max) (70% of rated	Release voltage VDC(min) (10% of	Coil power	Operate Time	Release Time
numbers	Rated	Max	$\Omega \pm 10\%$	voltage)	rated voltage)	·W	ms	ms
M1BS-003	3	4.2	16	2.1	0.3	0.56		
M1BS-005	5	7.0	45	3.5	0.5	0.56		
M1BS-006	6	8.4	66	4.2	0.6	0.55		
M1BS-009	9	12.3	140	6.3	0.9	0.58	Approx. 5	Approx. 3
M1BS-012	12	17.4	280	8.4	1.2	0.52		
M1BS-024	24	34.0	1070	16.8	2.4	0.54		
M1BS-048	48	64.9	3900	33.6	4.8	0.59		
M1BS-003A	3	4.9	22.5	2.1	0.3	0.4		
M1BS-005A	5	8.1	62.5	3.5	0.5	0.4		
M1BS-006A	6	9.7	90	4.2	0.6	0.4		
M1BS-009A	9	14.5	203	6.3	0.9	0.4	Approx. 5	Approx. 3
M1BS-012A	12	19.4	360	8.4	1.2	0.4		
M1BS-024A	24	38.9	1440	16.8	2.4	0.4		
M1BS-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 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 Between coil & Contacts Between Contact Poles	1000VAC 1min 1000VAC 1min 1000VAC 1min	Item 6 of IEC 60255-5 Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Surge Withstand Voltage		
Between open Contacts Between coil & Contacts Between Contact Poles	1500V 1500V 1500V	FCC 68 FCC 68 FCC 68
Shock resistance	Functional:100m/s ² 11ms; Survival:1000 m/s ² 6ms	IEC 68-2-27 Test Ea
Vibration resistance	10~55Hz 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℃ 3±0.5s	IEC 68-2-20 Test Ta method 1
Temperature Range	-40~65°C(-40~194°F) (-40~70°C for 0.4W Coil)	
Mass	4.5g	

Safety approvals

Safety approval	UL&CUR	TüV		
Load	2A/30VDC 0.6A/125VAC	2A/30VDC、0.6A/125VAC		





