

- DIL Pitch Terminals .High Sensitivity ◦
- Conforms to FCC Part 68 1.5kV Surge and Dielectric 1000VAC ◦
- Fully sealed (immersion clearable).
- 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 ◦

Contact Data

| | | |
|------------------------------------|-----------------------|---|
| Contact Arrangement | 2C | |
| Contact Material | PdRu | |
| Contact Rating (resistive) | 2A/30VDC; 0.6A/125VAC | |
| Max. Switching Power | 60W 125VA | Min. Switching load: 1mA/1V (Reference Value) |
| Max. Switching Voltage | 220VDC 250VAC | Max. Switching Current:2A |
| Contact Resistance or Voltage drop | ≤100mΩ | Item 3.12 of IEC255-7 |
| Operation life | Electrical | 3 × 10 ⁵ (Ag Alloy : 1 × 10 ⁵) |
| | Mechanical | 10 ⁸ |
| | | Item 3.30 of IEC255-7 |
| | | 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

| 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. | | | | | | |
| 3 | 4.2 | 16 | 2.1 | 0.3 | 0.56 | ≤3 | ≤1.5 |
| 5 | 7.0 | 45 | 3.5 | 0.5 | 0.56 | | |
| 6 | 8.4 | 66 | 4.2 | 0.6 | 0.55 | | |
| 9 | 12.3 | 140 | 6.3 | 0.9 | 0.58 | | |
| 12 | 17.4 | 280 | 8.4 | 1.2 | 0.52 | | |
| 24 | 34.0 | 1070 | 16.8 | 2.4 | 0.54 | | |
| 48 | 64.9 | 3900 | 33.6 | 4.8 | 0.59 | | |
| 3 | 4.9 | 22.5 | 2.1 | 0.3 | 0.4 | | |
| 5 | 8.1 | 62.5 | 3.5 | 0.5 | 0.4 | | |
| 6 | 9.7 | 90 | 4.2 | 0.6 | 0.4 | | |
| 9 | 14.5 | 203 | 6.3 | 0.9 | 0.4 | | |
| 12 | 19.4 | 360 | 8.4 | 1.2 | 0.4 | | |
| 24 | 38.9 | 1440 | 16.8 | 2.4 | 0.4 | | |
| 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.

Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

| | | |
|-------------------------|---|-----------------------------|
| Surge Withstand Voltage | 1500V | FCC68 |
| Between open Contacts | 1500V | FCC68 |
| Between coil & Contacts | 1500V | FCC68 |
| Between Contact Poles | 1500V | FCC68 |
| Shock resistance | Functional:100m/s ² 11ms; Endurance:1000 m/s ² 6ms | IEC68-2-27 Test Ea |
| Vibration resistance | 10~55Hz Double amplitude Functional: 1.5mm Endurance:5mm | IEC68-2-6 Test Fc |
| Terminals strength | 5N | IEC68-2-21 Test Ua1 |
| Solderability | 230°C ±2°C 10 ±0.5s | IEC68-2-20 Test Ta method 1 |
| Temperature Range | -40~65°C (-40~149° F) (-40~70°C for 0.4W Coil) | |
| Weight | 4.5g | |

| Ordering Information | | | |
|--|-----------|----------|---------------------------------------|
| M1BS | 12 | H | A |
| | | | Nominal coil power:Nil:0.55W; A:0.40W |
| | | | Sealing H: Sealed Type |
| Nominal coil Voltage9VDC):3:3V;5:5V;6:6V;9:9V;12:12V;24:24V;48:48V | | | |
| Type : M1BS | | | |

| Dimensions | mm/inch |
|-------------------|--|
| <p>Dimensions</p> | <p>Wiring diagram (Bottom views)</p> |
| | <p>Mounting (Bottom views)</p> <p>Tolerance: ±0.1/±0.004</p> |

NOTES 1).Dimensions are in millimeter.
2).Inch equivalentents are given for general information only.