

MITI-3 Features and Benefits



Features

- Ultra-miniature normally open switch with 6.86mm x 1.82mm (0.27" x 0.072") glass envelope
- Capable of switching 100Vdc at up to 3 Watts
- 10¹² Ohms insulation resistance
- Available sensitivity range 7-15 AT

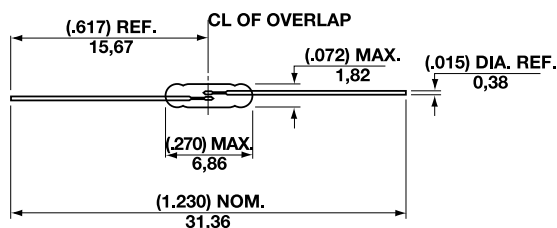
Benefits

- Hermetically sealed switch contacts are not effected by and have no effect on their external environment
- Low, stable contact resistance
- Very low space requirement
- Zero operating power required for contact closure
- Fit and forget durability

Applications

- Reed relays
- Security
- Metering
- Mobile phones

DIMENSIONS (in) mm



| | |
|--------------|--------|
| Switch Type | MITI-3 |
| Contact Form | A |

ELECTRICAL RATINGS

| | | | |
|--------------------|------------------|-------------|------------------|
| Contact Rating (1) | | Watt - max. | 3 |
| Voltage | Switching | Vdc - max. | 100 |
| | Breakdown | Vdc - min. | 170 |
| Current | Switching | A - max. | 0.25 |
| | Carry | A - max. | 0.5 |
| Resistance | Contact, Initial | Ω - max. | 0.15 |
| | Insulation | Ω - min. | 10 ¹² |
| Capacitance | Contact | pF - typ. | 0.2 |
| Temperature | Operating | °C | -40 to +100 |
| | Storage (5) | °C | -65 to +125 |

OPERATING CHARACTERISTICS

| | | | |
|--------------------|------------------|-----------|-------|
| Operate Time (2) | | ms - max. | 0.35 |
| Release Time (2) | | ms - max. | 0.1 |
| Shock | 11ms ½ sine wave | G - max. | 150 |
| Vibration | 50-2000 Hertz | G - max. | 30 |
| Resonant Frequency | | Hz - typ. | 16000 |

MAGNETIC CHARACTERISTICS

| | | | |
|------------------------|--|--------------|-------|
| Pull-In Range (3) | | Ampere Turns | 7-15 |
| Rating Sensitivity (4) | | Ampere Turns | 15 |
| Test Coil | | | L4991 |

- Notes
- 1) Contact rating-Product of the switching voltage and current should never exceed the wattage rating.
Contact Hamlin for additional load/life information.
 - 2) Operate/Release Time-per EIA/NARM RS421A, diode suppressed coil.
 - 3) Pull in Range-Contact Hamlin for tolerances available within this range.

- 4) Rating Sensitivity-The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
- 5) Storage Temperature-Long time exposure at elevated temperature may degrade solderability of the leads.

USA Tel: +1 920 648 3000 • Fax: +1 920 648 3001 • Email: sales@hamlin.com

UK Tel: +44 (0)1379 649700 • Fax: +44 (0)1379 649702 • Email: uksales@breedtech.com

Germany Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 953666 • Email: hamlin-electronics.de@breedtech.com

France Tel: +33 1 46 87 02 02 • Fax: +33 1 46 86 67 86 • Email: hamectrol@hamectrol.fr