

## 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
- $10^{12}$  Ohms insulation resistance
- Available sensitivity range 7-15 AT

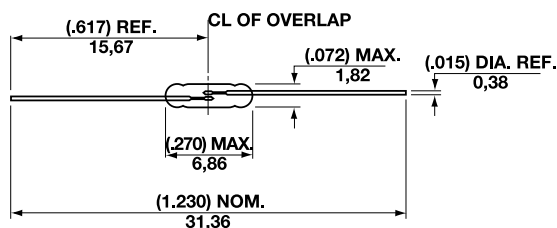
### Benefits

- 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	$\Omega$ - max.	0.15
	Insulation	$\Omega$ - min.	$10^{12}$
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating	$^{\circ}\text{C}$	-40 to +100
	Storage (5)	$^{\circ}\text{C}$	-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

INFORMATION PROVIDED ON THIS DATA SHEET IS PROVIDED FOR INFORMATION PURPOSES ONLY AND SHOULD NOT BE RELIED UPON AS BEING ACCURATE FOR ANY PARTICULAR PURPOSE. Product performance may be affected by the application to which the product is put. Upon request, HAMLIN will assist purchasers by providing information specific to any particular application. HAMLIN disclaims any and all liability whatsoever for any purchaser's reliance upon the information contained on this data sheet without further consultation with authorised representatives of HAMLIN.

ISSUE No: 3 DATE: 28/09/01 SIGNED: Glenn Johnston