

MITI-3V1 Features and Benefits



Features

- Ultra-miniature normally open switch with 7.00mm x 1.80mm (0.276" x 0.071") glass envelope
- Capable of switching 170Vdc at up to 10 Watts
- 10^{12} Ohms insulation resistance
- Available sensitivity range 6-19 AT
- Surface mount version available

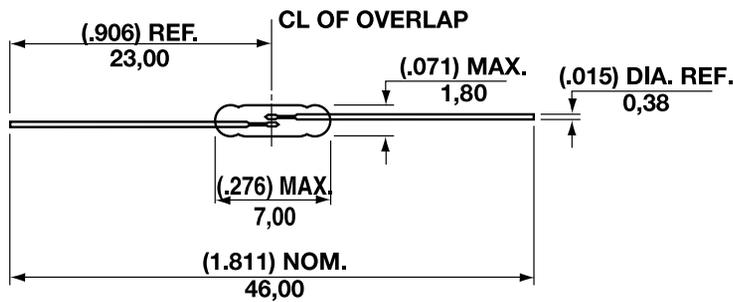
Benefits

- 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-3V1
Contact Form	A

ELECTRICAL RATINGS

Contact Rating (1)		Watt - max.	10
Voltage	Switching	Vdc - max.	170
	Breakdown	Vdc - min.	175
Current	Switching	A - max.	0.5
	Carry	A - max.	0.5
Resistance	Contact, Initial	Ω - max.	0.15
	Insulation	Ω - min.	10^{12}
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating	$^{\circ}$ C	-40 to +125
	Storage (5)	$^{\circ}$ C	-65 to +125

OPERATING CHARACTERISTICS

Operate Time (2)		ms - max.	0.45
Release Time (2)		ms - max.	0.2
Shock	11ms 1/2 sine wave	G - max.	150
Vibration	50-2000 Hertz	G - max.	30
Resonant Frequency		Hz - typ.	18000

MAGNETIC CHARACTERISTICS

Pull-In Range (3)		Ampere Turns	6-19
Rating Sensitivity (4)		Ampere Turns	12
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 (inc. bounce) /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

- 5) Storage Temperature-Long time exposure at elevated temperature may degrade solderability of the leads.

Hamlin USA Tel: +1 920 648 3000 • Fax: +1 920 648 3001 • Email: sales.us@hamlin.com
 Hamlin UK Tel: +44 (0)1379 649700 • Fax: +44 (0)1379 649702 • Email: sales.uk@hamlin.com
 Hamlin Germany Tel: +49 (0) 6142 923920 • Fax: +49 (0) 6142 923921 • Email: sales.de@hamlin.com
 Hamectrol France Tel: +33 (0) 1 6047 3000 • Fax: +33 (0) 1 6015 9136 • Email: sales.fr@hamlin.com

Issue No: 1 Date: 19/08/03

DETAILS PROVIDED ON THIS DATA SHEET ARE 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 applied. 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.

