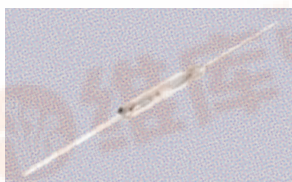


## MDSR-7 Features and Benefits



### Features

- Sub-miniature normally open switch with 12.7mm x 1.8mm (0.500" x 0.071") glass envelope
- Capable of switching 200Vdc at up to 10 Watts
- 10<sup>12</sup> Ohms insulation resistance
- Available sensitivity range 10-25 AT
- Surface mount version available

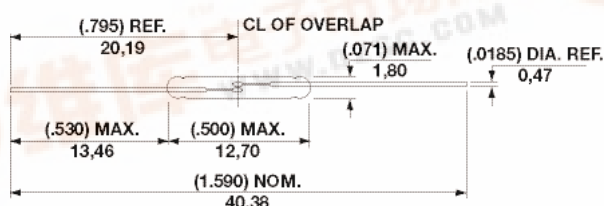
### Benefits

- Hermetically sealed switch contacts are not effected by and have no effect on their external environment
- Low, stable contact resistance
- Low space requirement
- Zero operating power required for contact
- Fit and forget durability
- Well suited to signal switching applications

### Applications

- Reed relays (particularly suited to ATE type applications)
- Security
- Limit switching
- Telephone hook switch

## DIMENSIONS (in) mm



<b>Switch Type</b>		<b>MDSR-7</b>
Contact Form		<b>A</b>
Underwriters Laboratories Recognised, File E47258 (see note 1)		<b>UL</b>

### ELECTRICAL RATINGS

Contact Rating (2)		Watt - max.	10
Voltage	Switching	Vdc - max.	200
	Breakdown	Vdc - min.	250
Current	Switching	A - max.	0.5
	Carry	A - max.	0.8
Resistance	Contact, Initial	Ω - max.	0.100
	Insulation	Ω - min.	10 <sup>12</sup>
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating	°C	-40 to +125
	Storage (6)	°C	-65 to +125

### OPERATING CHARACTERISTICS

Operate Time (3)		ms - max.	0.6
Release Time (3)		ms - max.	0.2
Shock	11ms ½ sine wave	G - max.	100
Vibration	50-2000 Hertz	G - max.	30
Resonant Frequency		Hz - typ.	5500

### MAGNETIC CHARACTERISTICS

Pull-In Range (4)		Ampere Turns	10-25
Rating Sensitivity (5)		Ampere Turns	20
Test Coil			L4989

- Notes
- 1) For details on electrical specifications, contact Hamlin.
  - 2) Contact rating-Product of the switching voltage and current should never exceed the wattage rating. Contact Hamlin for additional load/life information.
  - 3) Operate (inc. bounce) /Release Time-per EIA/NARM RS421A, diode suppressed coil.
  - 4) Pull in Range-Contact Hamlin for tolerances available within this range.
  - 5) Rating Sensitivity-The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
  - 6) 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) 6181 953660 • Fax: +49 (0) 6181 9536666 • Email: sales.de@hamlin.com  
**Hametrol France** Tel: +33 (0) 1 6047 3000 • Fax: +33 (0) 1 6015 9136 • Email: sales.fr@hamlin.com

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