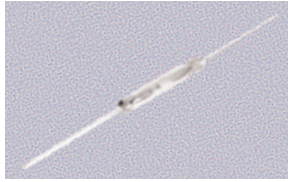


## MDSR-10 Features and Benefits



### Features

- Sub-miniature normally open switch with 10.16mm x 1.80mm (0.400" x 0.071") glass envelope
- Capable of switching 200Vdc at up to 10 Watts
- $10^{12}$  Ohms insulation resistance
- Available sensitivity range 10-25 AT

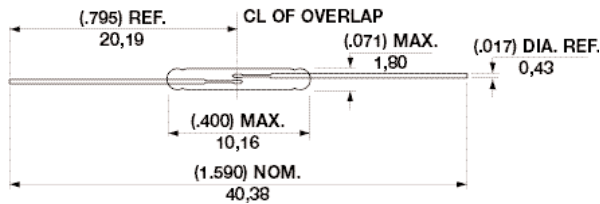
### Benefits

- 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-10</b>
Contact Form	<b>A</b>
Underwriters Laboratories Recognised, File E47258 (see note 1)	

### 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.	1.0
Resistance	Contact, Initial	$\Omega$ - max.	0.120
	Insulation	$\Omega$ - min.	$10^{12}$
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating	$^{\circ}$ C	-40 to +125
	Storage (6)	$^{\circ}$ C	-65 to +125

### OPERATING CHARACTERISTICS

Operate Time (3)		ms - max.	0.5
Release Time (3)		ms - max.	0.1
Shock	11 ms $\frac{1}{2}$ sine wave	G - max.	100
Vibration	50-2000 Hertz	G - max.	30
Resonant Frequency		Hz - typ.	8500

### MAGNETIC CHARACTERISTICS

Pull-In Range (4)		Ampere Turns	10-25
Rating Sensitivity (5)		Ampere Turns	15
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.

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