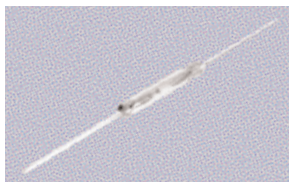


MDSR-7 Features and Benefits



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^{12} Ohms insulation resistance
- Available sensitivity range 10-25 AT
- Surface mount version available

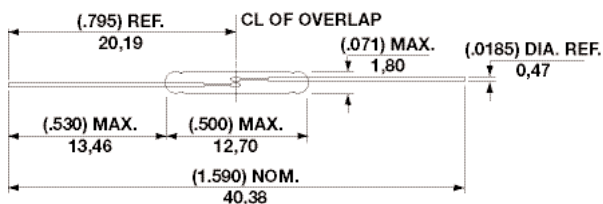
Benefits

- 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



Switch Type	MDSR-7
Contact Form	A
Underwriters Laboratories Recognised, File E47258 (see note 1)	

ELECTRICAL RATINGS

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

Hamectrol France Tel: +33 (0) 1 6047 3000 • Fax: +33 (0) 1 6015 9136 • Email: sales.fr@hamlin.com

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 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.