

MARR-5 Features and Benefits



Features

- Miniature normally open switch with 19.69mm x 2.66mm (0.775" x 0.105") glass envelope
- Capable of switching 1000Vdc at up to 1mA
- Minimum voltage breakdown 2000Vdc
- 10¹² Ohms insulation resistance
- Available sensitivity range 17-38 AT

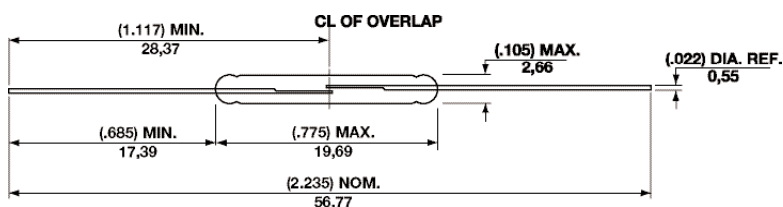
Benefits

- Hermetically sealed switch contacts are not effected by and have no effect on their external environment
- Low, stable contact resistance
- Zero operating power required for contact closure
- Fit and forget durability

Applications

- Reed relays (particularly suitable for high voltage breakdown applications)
- Security
- Limit switching
- Telecoms line switching
- Office equipment
- Automotive applications

DIMENSIONS (in) mm



Switch Type		MARR-5
Contact Form		A
Underwriters Laboratories Recognised, File E47258 (see note 1)		UL

ELECTRICAL RATINGS

Contact Rating (2)		Watt - max.	10
Voltage	Switching (6)	Vdc - max.	1000
	Breakdown	Vdc - min.	2000
Current	Switching	A - max.	0.5
	Carry	A - max.	1.3
Resistance	Contact, Initial	Ω - max.	0.100
	Insulation	Ω - min.	10 ¹²
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating	°C	-75 to +125
	Storage (7)	°C	-75 to +125

OPERATING CHARACTERISTICS

Operate Time (3)		ms - max.	0.75
Release Time (3)		ms - max.	0.3
Shock	1 ms ½ sine wave	G - max.	100
Vibration	50-2000 Hertz	G - max.	30
Resonant Frequency		Hz - typ.	3200

MAGNETIC CHARACTERISTICS

Pull-In Range (4)		Ampere Turns	17-38
Rating Sensitivity (5)		Ampere Turns	35
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) MARR-5 Switching current is limited to 1mA at 1000Vdc. Higher voltages and currents can be switched using correct suppression circuitry (consult Hamlin).

7) 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

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.