

## MDCG-4 Features and Benefits



### Features

- Sub-miniature normally open switch with 15.24mm x 2.28mm (0.600" x 0.090") glass envelope
- Capable of switching up to 200Vdc
- Maximum contact rating 10 Watts
- 10<sup>10</sup> Ohms insulation resistance
- Available sensitivity range 12-38 AT
- Surface mount version available

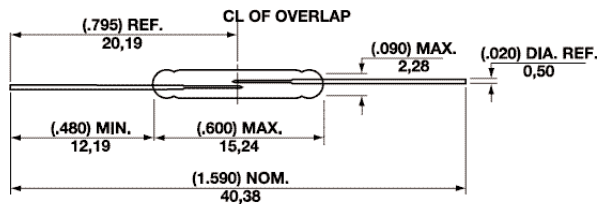
### Benefits

- 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 closure
- Fit and forget durability
- Well suited to signal switching applications

### Applications

- Reed relays
- Security
- Limit switching
- Telecoms
- Office equipment

## DIMENSIONS (in) mm



|                                                                |  |               |
|----------------------------------------------------------------|--|---------------|
| <b>Switch Type</b>                                             |  | <b>MDCG-4</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.    | 1.2              |
| Resistance         | Contact, Initial | Ω - max.    | 0.100            |
|                    | Insulation       | Ω - min.    | 10 <sup>10</sup> |
| Capacitance        | Contact          | pF - typ.   | 0.2              |
| 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              | 1 ms ½ sine wave | G - max.  | 100  |
| Vibration          | 50-2000 Hertz    | G - max.  | 30   |
| Resonant Frequency |                  | Hz - typ. | 3900 |

### MAGNETIC CHARACTERISTICS

|                        |  |              |       |
|------------------------|--|--------------|-------|
| Pull-In Range (4)      |  | Ampere Turns | 12-38 |
| 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.

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