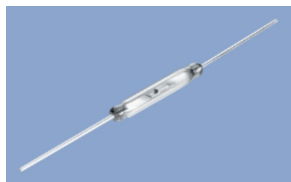


MRPR-8 Features and Benefits



Features

- Miniature normally open switch size with 20.32mm x 2.84mm (0.800" x 0.112") glass envelope
- Capable of switching up to 265Vac
- Maximum contact rating 50 Watts
- Minimum voltage breakdown 750 Vdc
- 10¹⁰ Ohms insulation resistance
- Available sensitivity range 22-43 AT

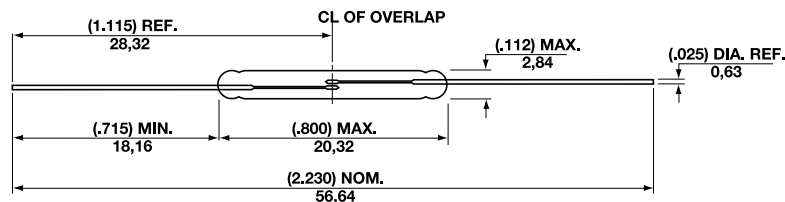
Benefits

- 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 closure
- Fit and forget durability

Applications

- Reed relays (suitable for switching European mains voltage)
- Limit switching
- Telecoms line switching
- White goods applications
- Automotive applications
- European mains voltage switching

DIMENSIONS (in) mm



| | |
|--|---------------|
| Switch Type | MRPR-8 |
| Contact Form | A |
| Underwriters Laboratories Recognised, File E47258 (see note 1) | |

ELECTRICAL RATINGS

| | | | |
|--------------------|------------------|-------------|----------------------|
| Contact Rating (2) | | Watt - max. | 50 |
| Voltage | Switching | V - max. | 265 Vac rms (250Vdc) |
| | Breakdown | Vdc - min. | 750 |
| Current | Switching | A - max. | 1.0 |
| | Carry | A - max. | 2.5 |
| Resistance | Contact, Initial | Ω - max. | 0.100 |
| | Insulation | Ω - min. | 10 ¹⁰ |
| Capacitance | Contact | pF - typ. | 0.2 |
| Temperature | Operating | °C | -20 to +125 |
| | Storage (6) | °C | -65 to +125 |

OPERATING CHARACTERISTICS

| | | | |
|--------------------|------------------|-----------|------|
| Operate Time (3) | | ms - max. | 0.75 |
| Release Time (3) | | ms - max. | 0.3 |
| Shock | 11ms ½ sine wave | G - max. | 100 |
| Vibration | 50-2000 Hertz | G - max. | 30 |
| Resonant Frequency | | Hz - typ. | 2100 |

MAGNETIC CHARACTERISTICS

| | | | |
|------------------------|--|--------------|-------|
| Pull-In Range (4) | | Ampere Turns | 22-43 |
| Rating Sensitivity (5) | | Ampere Turns | 22 |
| 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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