

FLEX-14 Features and Benefits



Features

- Sub-miniature normally open switch with 14.00mm x 2.28mm (0.551" x 0.090") glass envelope
- Longer than standard, easily formed leads
- 10¹⁰ Ohms insulation resistance
- Capable of switching up to 200Vdc
- Maximum contact rating 10 Watts
- Available sensitivity range 10-30 AT

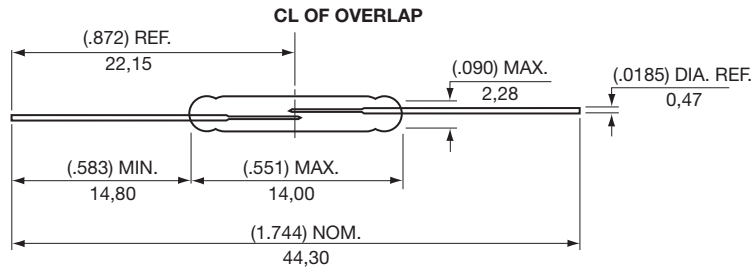
Benefits

- Hermetically sealed switch contacts are not effected by and have no effect on their external environment
- Low, stable contact resistance
- Soft leads enable reliable hand forming
- Zero operating power required for contact closure
- Fit and forget durability
- Well suited to signal switching

Applications

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

DIMENSIONS (in) mm



| | |
|--------------|----------------|
| Switch Type | FLEX-14 |
| Contact Form | A |

ELECTRICAL RATINGS

| | | | |
|-----------------------------|------------------|-------------|------------------|
| Contact Rating (See note 1) | | 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 | Ω - max. | 0.100 |
| | Insulation | Ω - min. | 10 ¹⁰ |
| Capacitance | Contact | pF - typ. | 0.2 |
| Temperature | Operating | °C | -40 to +125 |
| | Storage (5) | °C | -65 to +125 |

OPERATING CHARACTERISTICS

| | | | |
|--------------------|------------------|-----------|------|
| Operate Time (2) | | ms - max. | 0.55 |
| Release Time (2) | | ms - max. | 0.20 |
| Shock | 1 ms ½ sine wave | G - max. | 100 |
| Vibration | 50-2000 Hertz | G - max. | 30 |
| Resonant Frequency | | Hz - typ. | 5200 |

MAGNETIC CHARACTERISTICS

| | | | |
|------------------------|--|-------------------|-------|
| Pull-In Range (3) | | Ampere Turns | 10-30 |
| Drop-out | | Ampere Turns- min | 5 |
| Rating Sensitivity (4) | | Ampere Turns | 20 |
| Test Coil | | | L4989 |

Notes 1) Contact rating-Product of the switching voltage and current should never exceed the wattage rating. Contact Hamlin for additional load/life information.
2) Operate (inc. bounce) /Release Time-per EIA/NARM RS421A, diode suppressed coil.

3) Pull in Range-Contact Hamlin for tolerances available within this range.
4) Rating Sensitivity-The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
5) Storage Temperature-Long time exposure at elevated temperature may degrade solderability of the leads.