

## 59170 Moulded MDSR-I0 Switch



### Features

- 2 part magnetically operated proximity sensor
- Leaded and Gull Wing options
- Tape and reel option (consult Hamlin)
- Stand-offs to allow board washing
- Customer defined sensitivity
- Solder reflow capable

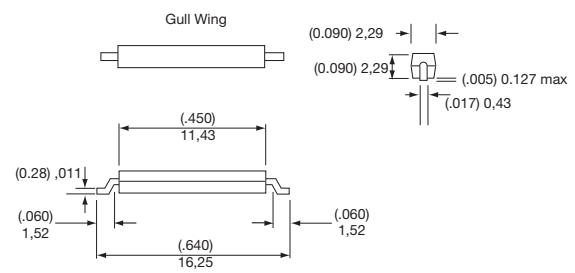
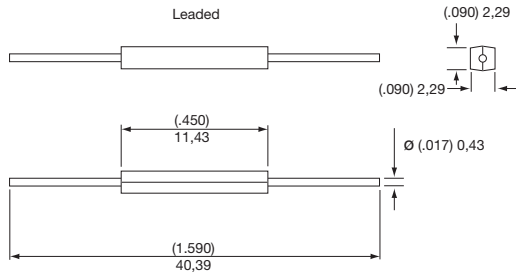
### Benefits

- Suitable for pick and place
- No standby power requirement
- Operates through non-ferrous materials such as wood, plastic or aluminium
- Hermetically sealed, magnetically operated contacts continue to operate long after optical and other technologies fail due to contamination

### Applications

- Position and limit sensing
- Security system switch
- Door switch

## DIMENSIONS (in) mm



## SPECIFICATIONS

| TABLE 1      |                  |             | Normally Open   |
|--------------|------------------|-------------|-----------------|
| Contact Type |                  |             | I               |
| Switch Type  |                  |             |                 |
| Power        | Switching        | Watt - max. | 10              |
|              | Breakdown        | Vdc - max.  | 200             |
| Voltage      | Switching        | Vdc - min.  | 250             |
|              | Carry            | A - max.    | 0.5             |
| Current      | Switching        | A - max.    | 0.8             |
|              | Carry            | A - max.    | 0.1             |
| Resistance   | Contact, Initial | Ω - max.    | 10 <sup>0</sup> |
|              | Insulation       | Ω - min.    | 0.3             |
| Capacitance  | Contact          | pF - typ.   | -40 to +125     |
| Temperature  | Operating        | °C          | -65 to +125     |
|              | Storage          | °C          |                 |
| Time         | Operate          | ms - max.   | 1.0             |
|              | Release          | ms - max.   | 0.5             |
| Shock        | 11ms 1/2 sine    | G - max.    | 100             |
| Vibration    | 50-2000 Hz       | G - max.    | 30              |

## CUSTOMER OPTIONS - Sensitivity and Termination Specification

| TABLE 2                                                                                                     |                  |                             |                  |                             |                  |                             |
|-------------------------------------------------------------------------------------------------------------|------------------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|
| Sensitivity Options:-                                                                                       |                  |                             |                  |                             |                  |                             |
| Activate Distances are approximate using Hamlin 57045 actuator as illustrated Switch AT before modification |                  |                             |                  |                             |                  |                             |
| Select Option                                                                                               | S                | T                           | U                |                             |                  |                             |
| Switch Type                                                                                                 | Pull In AT Range | Activate Distance d (in) mm | Pull In AT Range | Activate Distance d (in) mm | Pull In AT Range | Activate Distance d (in) mm |
| I Normally Open                                                                                             | 10-15            | (.295) 7,5                  | 15-20            | (.256) 6,5                  | 20-25            | (.197) 5,0                  |

| TABLE 3                           |                          |
|-----------------------------------|--------------------------|
| Termination and Packing Options:- |                          |
| SELECT OPTION                     | DESCRIPTION              |
| A                                 | Leaded                   |
| C                                 | Gull Wing bulk packed    |
| D                                 | Gull Wing taped and reel |

## ORDERING INFORMATION

