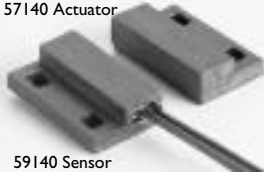


File E61760(N)

## 59140 Mini Flange Mount Features and Benefits

57140 Actuator



59140 Sensor

### Features

- 2 Part Magnetically Operated Proximity Sensor
- Compact size requires only 3.2cm<sup>2</sup> board space
- Case design allows screw down or adhesive mounting
- 300mm (12") Flying leads

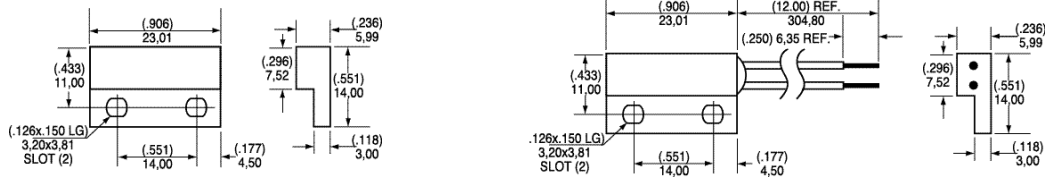
### Benefits

- 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
- Simple installation and adjustment

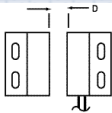
### Applications

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

## DIMENSIONS



## Recommended Activating Positions:



| Sensors and Matching Actuators (Note 2) |              | Actuator  |           | Sensor    |           |           |
|-----------------------------------------|--------------|-----------|-----------|-----------|-----------|-----------|
| Must Actuate                            | Must Release |           |           |           |           |           |
| .175 (4.44)                             | .800 (20.32) | 57140-000 | 59140-010 | 59140-020 | 59140-030 | 59140-040 |

| Electrical Specifications and Operating Characteristics |                  |             | Form A,<br>SPST-NO<br>Standard | Form A<br>SPST-NO<br>High Voltage | Form C<br>SPDT-CO<br>Standard | Form B<br>SPST-NC<br>Standard |
|---------------------------------------------------------|------------------|-------------|--------------------------------|-----------------------------------|-------------------------------|-------------------------------|
| Contact Type                                            |                  |             |                                |                                   |                               |                               |
| Contact Rating                                          |                  | Watt - max. | 10                             | 10                                | 5                             | 5                             |
| Voltage                                                 | Switching        | Vdc - max.  | 200                            | 300                               | 175                           | 175                           |
|                                                         | Breakdown        | Vdc - min.  | 250                            | 450                               | 200                           | 200                           |
| Current                                                 | Switching        | A - max.    | 0.5                            | 0.5                               | 0.25                          | 0.25                          |
|                                                         | Carry            | A - max.    | 1.2                            | 1.5                               | 1.5                           | 1.5                           |
| Resistance                                              | Contact, Initial | W - max.    | 0.2                            | 0.2                               | 0.2                           | 0.2                           |
|                                                         | Insulation       | W - min.    | 10 <sup>10</sup>               | 10 <sup>10</sup>                  | 10 <sup>9</sup>               | 10 <sup>9</sup>               |
| Capacitance                                             | Contact          | pF - typ.   | 0.3                            | 0.2                               | 0.3                           | 0.3                           |
| Temperature                                             | Operating        | °C          | -40 to + 105                   | -20 to + 105                      | -40 to + 105                  | -40 to + 105                  |
|                                                         | Storage          | °C          | -65 to + 105                   | -65 to + 105                      | -65 to + 105                  | -65 to + 105                  |
| Time                                                    | Operate          | ms - typ.   | 1.0                            | 1.0                               | 1.0                           | 1.0                           |
|                                                         | Release          | ms - typ.   | 1.0                            | 1.0                               | 1.0                           | 1.0                           |
| Shock                                                   | 11ms 1/2 sine    | G - max.    | 100                            | 100                               | 50                            | 50                            |
| Vibration                                               | 50-2000 Hz       | G - max.    | 30                             | 30                                | 30                            | 30                            |

- Notes: 1. Flying Leads except as shown below are 24 AWG 7/32 PVC, 105 deg. C., UL 1569. Leads are stripped .250 (6.35), untinned.  
2. Order Actuators as a separate item.  
3. Underwriters Laboratories recognition. For details on electrical specifications, contact Hamlin, Inc.

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