

File E61760(N) 59145 and 59150 Flange Mount Features and Benefits



Features

- 2 Part Magnetically Operated Proximity Sensor
- Flying leads can exit either left or right hand side of the housing
- Case design allows screw down or adhesive mounting
- 300mm (12") Flying leads

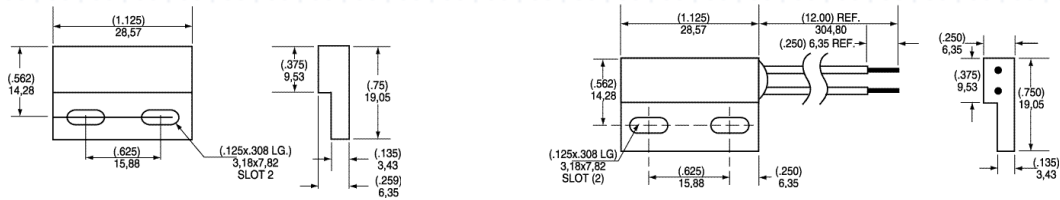
Benefits

- 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

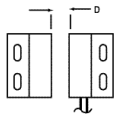
Applications

- 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 | | | | | |
| .225 (5,71) | .800 (20,32) | 59145-000 | 59145-010 | 59145-020 | 59145-030 | 59145-040 |
| .225 (5,71) | .800 (20,32) | 59150-000 | 59150-010 | 59150-020 | 59150-030 | 59150-040 |

| Electrical Specifications and Operating Characteristics | | | Form A SPST-NO Standard | Form A SPST-NO High Voltage | Form C SPDT-CO Standard | Form B SPST-NC Standard |
|---|------------------|-------------|-------------------------------|-----------------------------------|-------------------------------|-------------------------------|
| 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 | - max. | 0.2 | 0.2 | 0.2 | 0.2 |
| | Insulation | - min. | 10 ¹⁰ | 10 ¹⁰ | 10 ⁹ | 10 ⁹ |
| Capacitance | Contact | p F - 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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