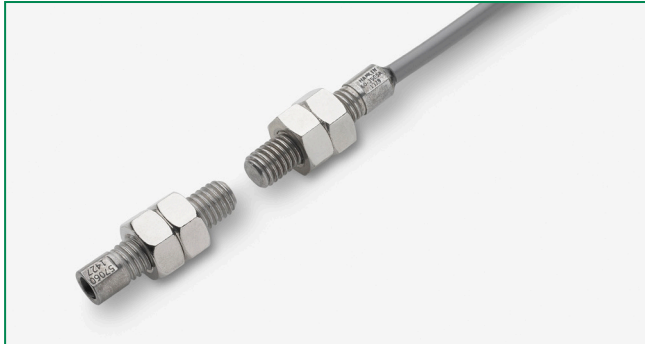


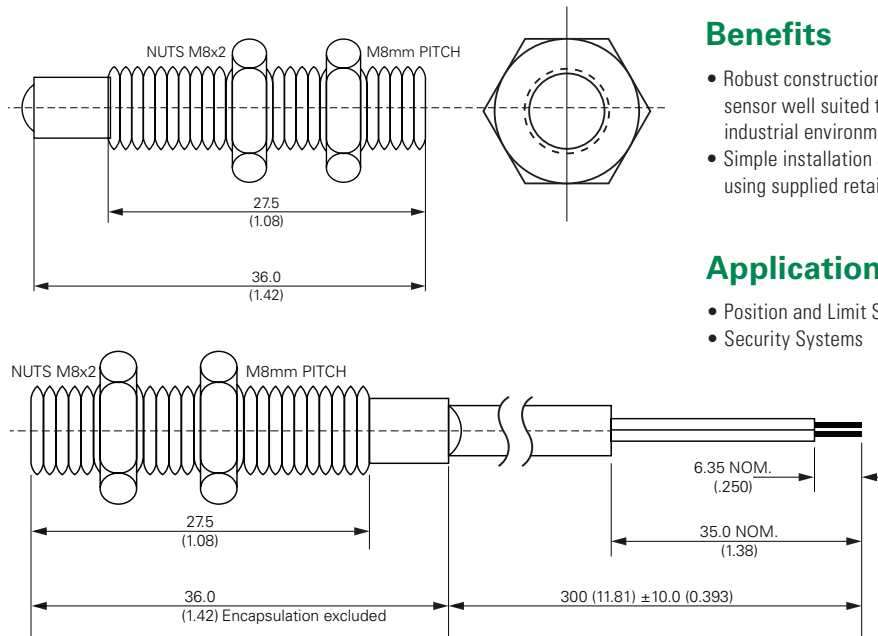
59060 Stainless Steel M8 Threaded Barrel Sensor + 57060 Actuator

RoHS



Dimensions

Dimensions in mm (inch)



Description

The 59060 is a small stainless steel barrel sensor with an M8 x 1.25mm pitch thread, 36mm (1.420") long with a choice of normally open, normally open high voltage, normally closed or change over contacts. It is capable of switching up to 265Vac/300Vdc at 10VA. It has a variety range of sensitivity, cable length and connector options. It functions best with the 57060 actuator.

Note: The 57060 Actuator is sold separately.

Features

- Two-part magnetically operated proximity sensor
- Stainless steel threaded barrel with retaining nuts
- M8 thread
- Choice of normally open or normal open high voltage contacts
- Customer defined sensitivity options
- Choice of cable length and

Benefits

- Robust construction makes this sensor well suited to harsh industrial environments
- Simple installation and adjustment using supplied retaining nuts
- No standby power requirement
- Operates through non-ferrous materials such as wood, plastic or aluminium

Applications

- Position and Limit Sensing
- Security Systems
- Industrial Process Control
- Linear Actuators

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Electrical Ratings

| Contact Type | | | Normally Open | Normally Open High Voltage | Change Over | Normally Closed |
|-----------------------------|-----------------------------|----------------------|-------------------------|----------------------------|------------------------|------------------------|
| Switch Type | | | 1 | 2 | 3 | 4 |
| Contact Rating ¹ | | VA/Watt - max. | 10 | 10 | 5 | 5 |
| Voltage ⁴ | Switching ² | Vdc - max. | 200 | 300 | 175 | 175 |
| | | Vac - max. | 140 | 265 | 120 | 120 |
| | Breakdown ³ | Vdc - min. | 250 | 450 | 200 | 200 |
| Current ⁴ | Switching ² | Adc - max. | 0.5 | 0.5 | 0.25 | 0.25 |
| | | Aac - max. | 0.35 | 0.35 | 1.0 | 1.0 |
| | Carry | Adc - max. | 1.2 | 1.5 | 1.5 | 1.5 |
| Resistance ⁵ | Contact, Initial Insulation | Ω - max. Ω - min. | 0.2 10 ¹⁰ | 0.2 10 ¹⁰ | 0.2 10 ⁹ | 0.2 10 ⁹ |
| Capacitance | Contact | pF - typ. | 0.3 | 0.2 | 0.3 | 0.3 |
| Temperature | Operating Storage | °C | -40 to +105 | -20 to +105 | -40 to +105 | -40 to +105 |
| | | °C | -65 to +105 | -65 to +105 | -65 to +105 | -65 to +105 |

Product Characteristics

| | | | | | | |
|---------------------------|-------------|-----------|-----|-----|-----|-----|
| Operate Time ⁶ | | ms - max. | 1.0 | 1.0 | 3.0 | 3.0 |
| Release Time ⁶ | | ms - max. | 1.0 | 1.0 | 3.0 | 3.0 |
| Shock ⁷ | 11ms ½ sine | G - max. | 100 | 100 | 50 | 50 |
| Vibration ⁷ | 50-2000 Hz | G - max. | 30 | 30 | 30 | 30 |

Notes:

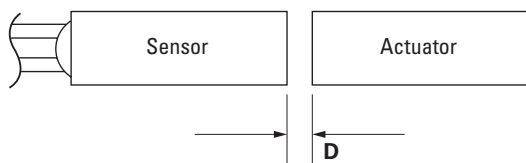
- Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details.
- Breakdown Voltage - per MIL-STD-202, Method 301.
- Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
- This resistance value is for 11.81mm wire length. Resistance changes when wire lengthens.
- Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).
- Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.
- For custom modifications to the wire length or size, or adding a special connector, please contact Littelfuse.

Sensitivity Options (Using 57060 Actuator)

| Select Option | | S | | T | | U | | V | |
|---------------|------------------|---|------------------|---|------------------|---|------------------|---|------------|
| Switch Type | Pull-In AT Range | Activate Distance - D mm (inch) Minimum | Pull-In AT Range | Activate Distance - D mm (inch) Minimum | Pull-In AT Range | Activate Distance - D mm (inch) Minimum | Pull-In AT Range | Activate Distance - D mm (inch) Minimum | |
| 1 | Normally Open | 12-18 | 12.0 (.472) | 17-23 | 9.0 (.354) | 22-28 | 7.0 (.276) | 27-33 | 5.5 (.217) |
| 2 | High Voltage | -- | -- | 17-23 | 9.0 (.354) | 22-28 | 7.0 (.276) | 27-33 | 5.5 (.217) |
| 3 | Change Over | 15-20 | 12.0 (.472) | 20-25 | 7.5 (.295) | 25-30 | 6.0 (.236) | -- | -- |
| 4 | Normally Closed | 15-20 | 12.0 (.472) | 20-25 | 7.5 (.295) | 25-30 | 6.0 (.236) | -- | -- |

Note:

- Pull-In AT Range: These AT values are the bare reed switch AT before modification.
- The activation distance is average value on the final sensor assembly.



| Schematics | Switch Type |
|------------|-------------|
| | 1 and 2 |
| | 3 |
| | 4 |