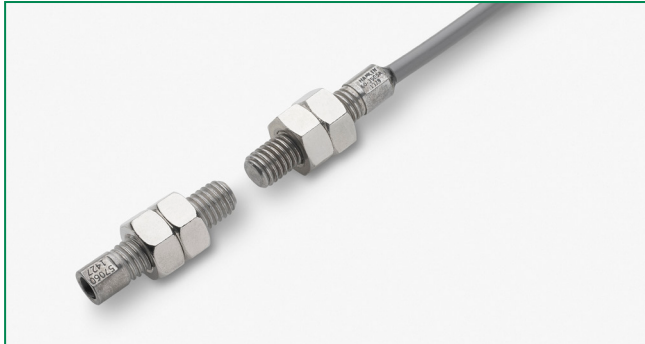


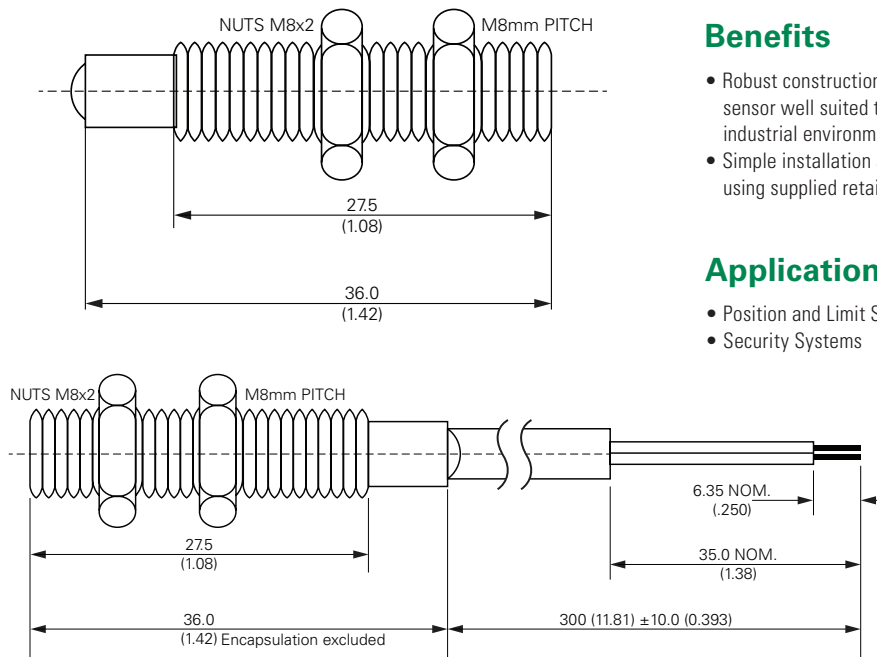
59060 Stainless Steel M8 Threaded Barrel Sensor + 57060 Actuator

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 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 °C	-40 to +105 -65 to +105	-20 to +105 -65 to +105	-40 to +105 -65 to +105	-40 to +105 -65 to +105

Product Characteristics

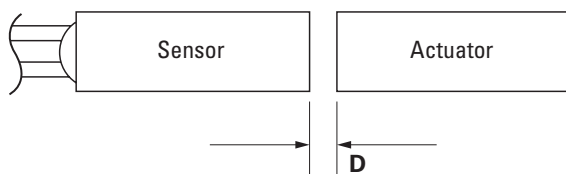
Operate Time ⁶		ms - max.	1.0	1.0	3.0	3.0
Release Time ⁶		ms - max.	1.0	1.0	3.0	3.0
Shock ⁷	11ms ½ sine	G - max.	100	100	50	50
Vibration ⁷	50-2000 Hz	G - max.	30	30	30	30

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 mm (inch) Minimum	Pull-In AT Range	Activate Distance mm (inch) Minimum	Pull-In AT Range	Activate Distance mm (inch) Minimum	Pull-In AT Range	Activate Distance 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	—	12.0 (.472)	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:

Activate Distances are approximate using Littelfuse 57060 actuator as illustrated. Switch AT before modification.

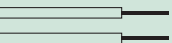
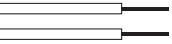
Schematics	Switch Type
	1
	3
	4

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Cable Length Options

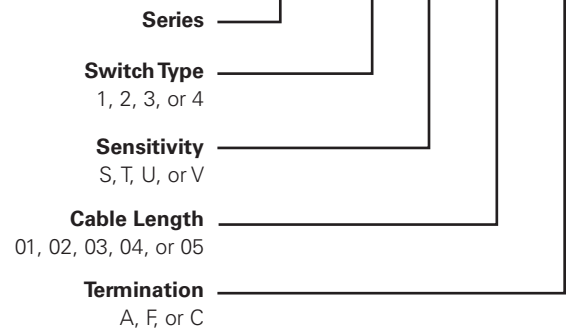
Cable Type: 24 AWG 7/32 PVC 105°C DOUBLE INSULATED	
Select Option	Cable Length mm (inch)
01	100 (3.94)
02	300 (11.81)
03	500 (19.69)
04	750 (29.53)
05	1000 (39.37)

Termination Specification

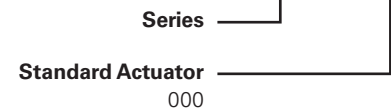
Termination Options		
Select Option	Description (Two-wire versions illustrated)	
A	Tinned leads (6.4±0.76)mm	
F	Untinned leads (6.4±0.76)mm	
C	6.35mm fastons	

Part Numbering System

Sensor: 59060 - X - X - XX - X



Actuator: 57060 - 000



Note: The 57060 Actuator is sold separately.

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	500	N/A	N/A