

# 59125 Pinned Flange Sensor + 57125 Actuator



## Agency Approvals

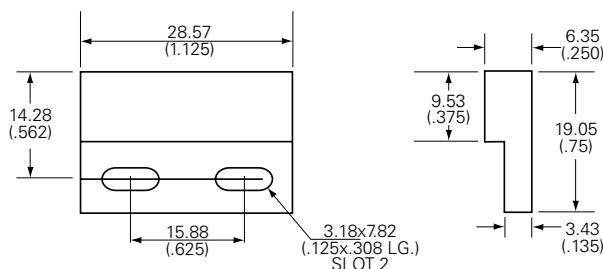
Agency	Agency File Number
	E61760

Note: Contact Littelfuse for specific agency approval ratings.

## Dimensions

Dimensions in mm (inch)

### Actuator



## Description

The 59125 is a flange mounting reed sensor 28.57mm x 19.05mm x 6.35mm (1.125" x 0.750" x 0.259") with integral terminal pins with a choice of normally open, normally open high voltage or normally closed contacts. Its case design enables screw or adhesive mounting. It is capable of switching up to 265Vac/300Vdc at 10VA. The 59125 functions best with the matching actuator 57125-000.

**Note: The 57125 Actuator is sold separately.**

## Features

- Two-part magnetically operated proximity sensor
- Moulded in terminal pins accept push on connector or wire wrap
- Case design allows screw down or adhesive mounting
- Customer defined sensitivity option

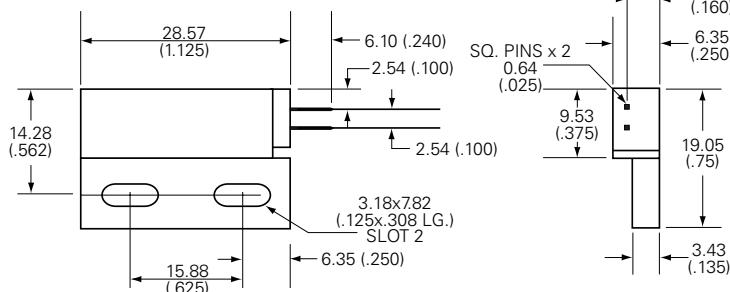
## Benefits

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

## Applications

- Position and limit sensing
- Security system switch
- Linear actuators
- Industrial process control

### Sensor



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## Electrical Ratings

Contact Type				Normally Open	Normally Open High Voltage	Normally Closed
Switch Type				1	2	4
Contact Rating <sup>1</sup>		VA/Watt - max.		10	10	5
Voltage <sup>4</sup>	Switching <sup>2</sup>	Vdc - max.	200	300	175	
	Breakdown <sup>3</sup>	Vac - max.	140	265	120	
Current <sup>4</sup>	Switching <sup>2</sup>	Vdc - min.	250	400	200	
	Carry	Adc - max.	0.5	0.4	0.25	
Resistance <sup>5</sup>	Contact, Initial Insulation	Adc - max.	0.35	0.30	0.18	
		Ω - min.	1.2	1.4	1.5	
Capacitance	Contact	pF - typ.	0.3	0.2	0.3	
Temperature	Operating	°C	-40 to +105	-20 to +105	-40 to +105	

## Product Characteristics

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

Notes:

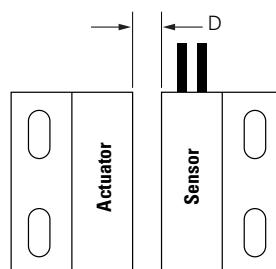
- Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application 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 57125 Actuator)

Select Option		S		T		U		V	
Switch Type	Pull-In AT Range	Activate Distance-D mm (inch) Average	Pull-In AT Range	Activate Distance-D mm (inch) Average	Pull-In AT Range	Activate Distance-D mm (inch) Average	Pull-In AT Range	Activate Distance-D mm (inch) Average	
1	Normally Open	12-18	12.5 (.492)	17-23	11.3 (.445)	22-28	9.8 (.385)	27-33	8.9 (.350)
2	High Voltage	-	-	17-23	11.3 (.445)	22-28	9.8 (.385)	27-33	8.9 (.350)
4	Normally Closed	15-20	8.0 (.315)	20-25	7.2 (.283)	25-30	5.9 (.233)	-	-

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



## 59125 Pinned Flange Sensor + 57125 Actuator

### Part Numbering System

**Sensor:** 59125 - X - X - 00 - 0

Series  
Switch Type  
1, 2, or 4  
Sensitivity  
S, T, U, or V

**Actuator:** 57125 - 000

Series  
Standard Actuator  
000

**Note:** The 57125 Actuator is sold separately.

### Packaging

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

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