



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

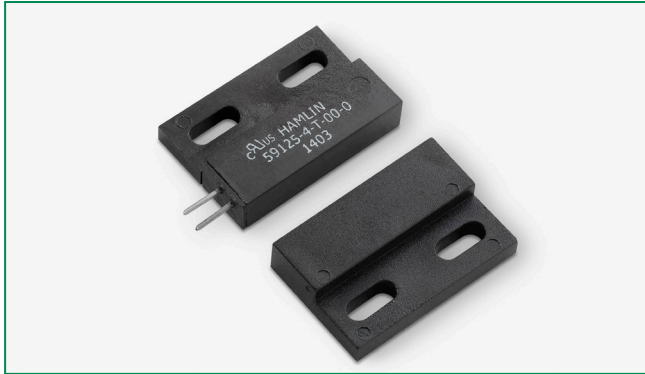
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# 59125 Pinned Flange Sensor + 57125 Actuator



## 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. It's 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

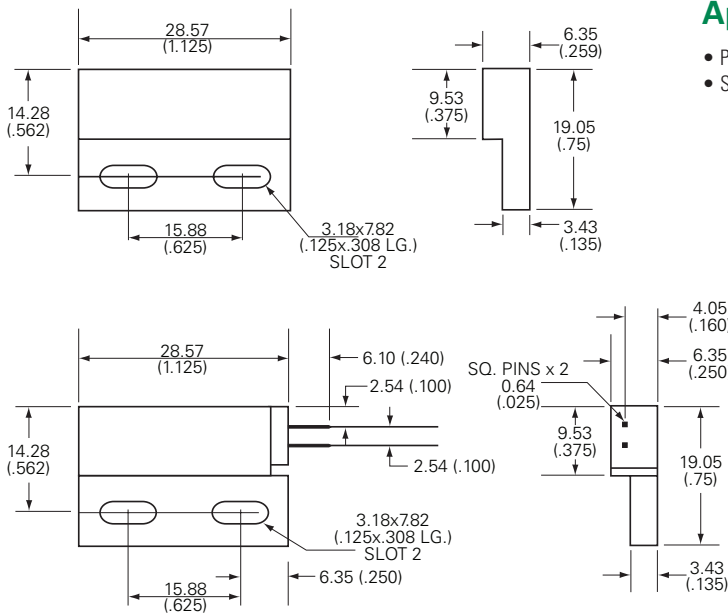
## Agency Approvals

Agency	Agency File Number
	E61760

Note: Contact Littelfuse for specific agency approval ratings.

## Dimensions

Dimensions in mm (inch)



## 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

# 59125 Pinned Flange Sensor + 57125 Actuator

## 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
		Vdc - min.	250	400	200
Current <sup>4</sup>	Switching <sup>2</sup>	Adc - max.	0.5	0.4	0.25
	Carry	Aac - max.	0.35	0.30	0.18
		Adc - max.	1.2	1.4	1.5
Resistance <sup>5</sup>	Contact, Initial Insulation	Ω - max. Ω - min.	0.2 10 <sup>10</sup>	0.2 10 <sup>10</sup>	0.2 10 <sup>9</sup>
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:

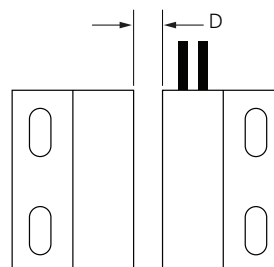
- Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application 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 mm (inch) Average	Pull-In AT Range	Activate Distance mm (inch) Average	Pull-In AT Range	Activate Distance mm (inch) Average	Pull-In AT Range	Activate Distance 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