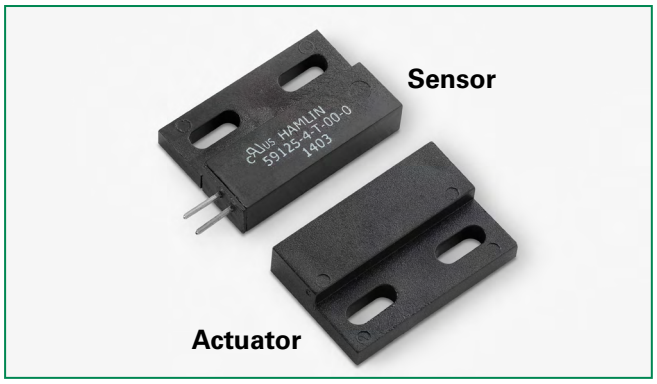
59125 Pinned Flange Sensor + 57125 Actuator



Agency Approvals

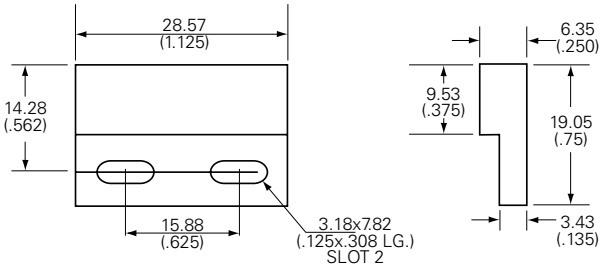
Agency	Agency File Number
c UL us	E61760

Note: Contact Littelfuse for specific agency approval ratings.

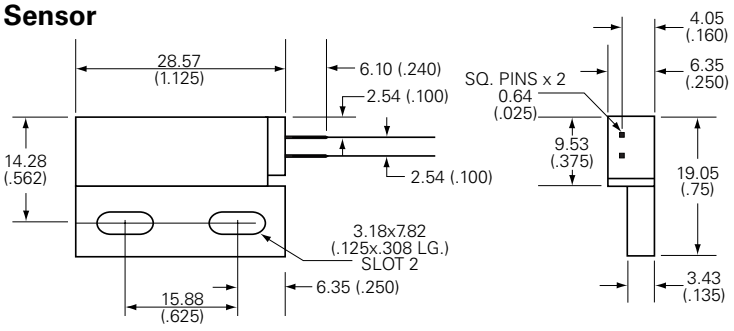
Dimensions

Dimensions in mm (inch)

Actuator



Sensor



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

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

 Revised: 12/20/17
Specifications are subject to change without notice.

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Electrical Ratings

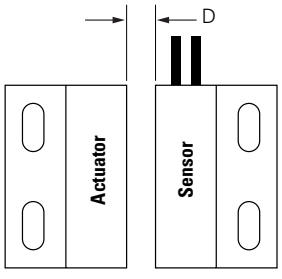
Contact Type			Normally Open	Normally Open High Voltage	Normally Closed
Switch Type			1	2	4
Contact Rating [1]		VA/Watt - max.	10	10	5
Voltage [4]	Switching [2] Breakdown [3]	Vdc - max. Vac - max. Vdc - min.	200 140 250	300 265 400	175 120 200
Current [4]	Switching [2] Carry	Adc - max. Aac - max. Adc - max.	0.5 0.35 1.2	0.4 0.30 1.4	0.25 0.18 1.5
Resistance [5]	Contact, Initial Insulation	Ω - max. Ω - min.	0.2 10^{10}	0.2 10^{10}	0.2 10^{9}
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 [6]		ms - max.	1.0	1.0	3.0
Release Time [6]		ms - max.	1.0	1.0	3.0
Shock [7]	11ms ½ sine	G - max.	100	100	50
Vibration [7]	50-2000 Hz	G - max.	30	30	30

Notes:
1. Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
2. 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.
3. Breakdown Voltage - per MIL-STD-202, Method 301.
4. Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
5. This resistance value is for 11.81mm wire length. Resistance changes when wire lengthens.
6. Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).
7. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.
8. 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:
1. Pull-In AT Range: These AT values are the bare reed switch AT before modification.
2. The activation distance is average value on the final sensor assembly



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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