

## Excellent Integrated System Limited

Stocking Distributor

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[Littelfuse](#)  
[59250-1-S-01-A](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

## 59250 Seating Occupancy Reed Switch Sensor

RoHS



### Description

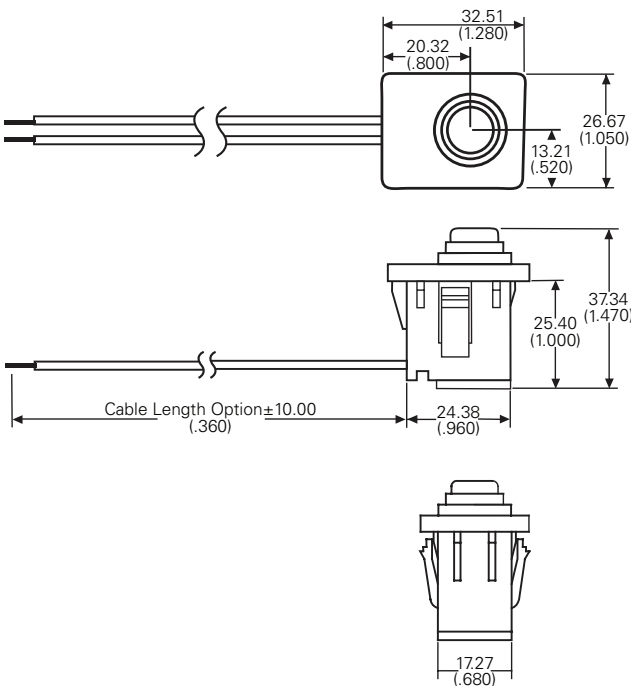
The 59250 is a magnetically operated push button sensor with a simple push-fit clip mounting. Normally open contacts actuate when the plunger is depressed. Switches up to 140Vac/200Vdc at 10W. It has integral neoprene boot for environmental protection. It is available with choice of various cable lengths and connector options.

### Features

- Magnetically operated position sensor
- Simple push fit mounting
- Operates when plunger is depressed
- Choice of cable length
- Choice of connector

### Dimensions

Dimensions in mm (inch)



### Benefits

- Robust construction makes this sensor well suited to harsh environments
- Integral neoprene boot provides protection from severe environments
- No standby power required
- Hermetically sealed, magnetically operated contacts give excellent life and reliability

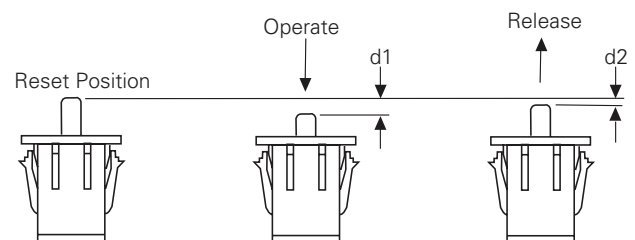
### Applications

- Seat occupancy sensing
- Position and limit sensing

### Activation (without boot)

Operate Distance d1 5.5mm (.217) max.

Release Distance d2 1.5mm (.059) min.



## 59250 Seating Occupancy Reed Switch Sensor

### Electrical Ratings

Contact Type			Normally Open
Switch Type			1
Contact Rating <sup>1</sup>		VA/Watt - max.	10
Voltage <sup>4</sup>	Switching <sup>2</sup>	Vdc - max.	200
	Breakdown <sup>3</sup>	Vac - max.	140
		Vdc - min.	250
Current <sup>4</sup>	Switching <sup>2</sup>	Adc - max.	0.5
	Carry	Aac - max.	0.35
		Adc - max.	0.5
Resistance <sup>5</sup>	Contact, Initial Insulation	Ω - max. Ω - min.	0.2 10 <sup>10</sup>
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating	°C	-40 to +85

### Product Characteristics

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

## Reed Sensors

### Push Button Sensor > 59250

# 59250 Seating Occupancy Reed Switch Sensor

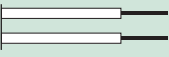
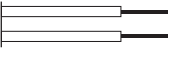

## Cable Length Specification

Cable Type: 18 AWG 19/30 XLP Polyethylene

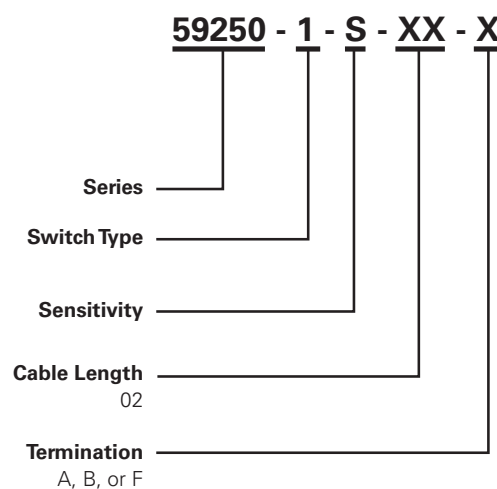
Select Option	Cable Length mm (inch)
02	300 (11.81)

## 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 
B	Deutsch DTM04-2P 

## Part Numbering System



## Packaging

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