

# 59250 Seating Occupancy Reed Switch Sensor

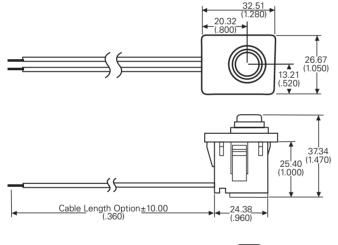
RoHS

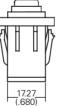


Note: 59250 Sensor shown with Deutsch DTM04-2P connector.

#### **Dimensions**

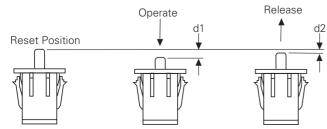
Dimensions in mm (inch)





## **Activation (without boot)**

Operate Distance d1 5.5mm (0.217) max. Release Distance d2 1.5mm (0.059) min.



## 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

### **Benefits**

- Robust construction makes this sensor well suited to harsh environments
- Integral neoprene boot provides protection from severe environments

## **Applications**

- Seat occupancy sensing
- Position and limit sensing

- Operates when plunger is depressed
- Choice of cable length
- Choice of connector
- RoHS Compliant
- No standby power required
- Hermetically sealed, magnetically operated contacts give excellent life and reliabilty

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## **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> Breakdown <sup>3</sup>	Vdc - max. Vac - max. Vdc - min.	200 140 250
Current <sup>4</sup>	Switching <sup>2</sup> Carry	Adc - max. Aac - max. Adc - max.	0.5 0.35 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

Operate Time 6		ms - max.	1.0
Release Time 6		ms - max.	1.0
Shock 7	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.

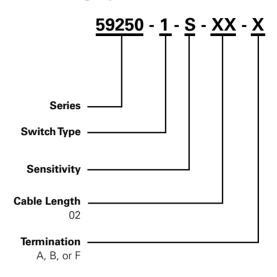
<sup>8.</sup> For custom modifications to the wire length or size, or adding a special connector, please contact Littelfuse.



## 59250 Seating Occupancy Reed Switch Sensor

Cable	Cable Length Specification						
Cable T	Cable Type: 18 AWG 19/30 XLP Polyethylene						
Select Option Cable Length mm (inch)							
	02	300 (11.81)					
Termination Specification   Termination Options   Select Description   Option (Two-wire versions illustrated)							
A	Tinned le	eads (6.4±0.76)mm					
F	Untinned	leads (6.4±0.76)mm					
В	Deut	sch DTM04-2P					

## **Part Numbering System**



## Packaging

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

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