

# Automotive Sensor Products

## Seat Occupancy Sensor – Reed



### General Description

The Seat Occupancy sensor is a magnetically operated push button sensor with a simple push-fit clip mounting configuration, allowing the passenger safety system to determine the presence of an object or person in a seat.

### Operation

#### Basic Principle

The sensor is in a normally open position. When the plunger is depressed the magnetic circuit will be complete, activating the Reed Switch to close its contacts sending a voltage output to the customer electrical interface.

#### Packaging Options

Custom packaging can be provided to meet any need, please contact Littelfuse Engineering for details.

### Features

- ♦ Magnetically operated position sensor
- ♦ Simple flush and recessed mounting options available
- ♦ Normally open contact
- ♦ Operates when plunger is depressed
- ♦ Choice of cable length and clips
- ♦ Choice of connector and terminals
- ♦ Choice of circuitry for output voltages

### Benefits

- ♦ Robust construction makes this sensor well suited to harsh environments
- ♦ No standby power required
- ♦ Integral neoprene boot provides protection from severe environments
- ♦ Hermetically sealed, magnetically operated contacts give excellent life and reliability
- ♦ Can be connected directly to sounder or LED indicator

### Applications

- ♦ Seat occupancy
- ♦ Position and limit sensing

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### Functional Characteristics

Parameter			
Type			
Reed Switch Sensor			
Contact			Normally Open
Electrical			
Voltage	Switching	Max.	200V <sub>dc</sub> / 140V <sub>ac</sub> RMS 250 V <sub>dc</sub> 0.5A <sub>dc</sub> / 0.35A <sub>ac</sub> RMS 0.5A <sub>dc</sub> / 0.35A <sub>ac</sub> RMS 10W 0.12 Ω 10 <sup>12</sup> Ω 0.2pF
	Breakdown	Min.	
Current	Switching	Max.	
	Carry	Max.	
Rating	Power	Max.	
Resistance	Contact, Initial	Max.	
	Insulation	Max.	
Capacitance	Contact	Typ.	
Environmental/Mechanical			
Temperature	Operating	Celsius	-40° to +105°
	Storage	Celsius	-65° to 105°
Shock	11ms ½ Sine	Max.	100g

### Littelfuse

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