

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

### Littelfuse

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