Automotive Sensor Products

Seat Occupancy Sensor – Reed



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

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.

Applications

- Seat occupancy
- Position and limit sensing

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.

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Functional Characteristics

Parameter			
Type			
Reed Switch Sensor			
Contact			Normally Open
Electrical			
Voltage	Switching	Max.	$200V_{dc}$ / $140V_{ac}$ RMS
	Breakdown	Min.	250 V_{dc}
Current	Switching	Max.	$0.5A_{dc}$ / $0.35A_{ac}$ RMS
	Carry	Max.	$0.5A_{dc}$ / $0.35A_{ac}$ RMS
Rating	Power	Max.	10W
Resistance	Contact, Initial	Max.	0.12 Ω
	Insulation	Max.	10^{12}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

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