

# Automotive Sensor Products

## Clutch Position Sensor



### General Description

The purpose of the Clutch Position Sensor is to interact with a magnet fixed to the master cylinder piston to indicate the position of the clutch pedal.

### Operation

#### Basic Principle

The clutch position sensor is used to detect clutch engagement.

#### Packaging Options

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

### Features

- ◆ Magnetically operated position sensor
- ◆ Integrated in clutch master cylinder
- ◆ Normally open contact
- ◆ Easy to Assemble (Snap on)
- ◆ Choice of circuitry for output voltages
- ◆ Choice of connectors and terminals

### Benefits

- ◆ Robust construction makes this sensor well suited to harsh environments
- ◆ No standby power required
- ◆ Hermetically sealed, magnetically operated contacts give excellent life and reliability

### Applications

- ◆ Engine Start Systems
- ◆ Cruise Control Systems
- ◆ Clutch Position

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## Functional Characteristics

Parameter			
Type			
Reed Switch Sensor			
Contact		Normally Open	
Electrical			
Voltage	Switching	Max.	200V <sub>dc</sub> / 125V <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.	1.0A <sub>dc</sub> / 0.7A <sub>ac</sub> RMS
Rating	Power	Max.	10W
Resistance	Contact, Initial	Max.	0.12 Ω
	Insulation	Max.	10 <sup>10</sup> Ω
Capacitance	Contact	Typ.	0.2pF
Environmental/Mechanical			
Temperature	Operating	Celsius	-40° to +125°
	Storage	Celsius	-40° to +125°
Shock	11ms Sine	Max.	30g
Vibration	2000Hz	Max.	35g

## Littelfuse

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