

## Automotive Sensor Products

### Coolant Level Sensor – Reed



#### General Description

When paired with a float magnet, Reed Sensors can function as fluid-level sensors. A float level sensor is used to detect the coolant level inside the reservoir tank.

#### Operation

##### Basic Principle

The sensor is in a normally open position. When the fluid level in the reservoir tank is low, the magnet in the float activates the Reed Switch 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 level sensor
- ◆ Mounted in coolant reservoir tank
- ◆ Normally open circuit
- ◆ Operates when float moves up and down with fluid level
- ◆ 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
- ◆ Can directly interface with warning system device

#### Applications

- ◆ Coolant level sensor
- ◆ Fluid level sensor

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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.	0.8A <sub>dc</sub> / 0.35A <sub>ac</sub> RMS
Rating	Power	Max.	10W
Resistance	Contact, Initial	Max.	0.1 Ω
	Insulation	Max.	10 <sup>10</sup> Ω
Capacitance	Contact	Typ.	0.3pF
Environmental/Mechanical			
Temperature	Operating	Celsius	-40° to +125°
	Storage	Celsius	-40° to 125°
Shock	11ms ½ Sine	Max.	100g
Vibration	50 – 2000Hz	Max.	30g

## Littelfuse

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