

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 _{dc} / 140V _{ac} RMS 250 V _{dc}
	Breakdown	Min.	
Current	Switching	Max.	0.5A _{dc} / 0.35A _{ac} RMS 0.8A _{dc} / 0.35A _{ac} RMS
	Carry	Max.	
Rating	Power	Max.	10W
Resistance	Contact, Initial	Max.	0.1 Ω
	Insulation	Max.	10 ¹⁰ 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

Website: www.littelfuse.com
 Sales Support: ALL_Autosensors_Sales@littelfuse.com
 Technical Support: ALL_Autosensors_Tech@littelfuse.com

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