

## Automotive Sensor Products

### DEF Heater – Post Style



#### General Description

To allow the SCR system to work at low temperatures, heaters are used to maintain the DEF in liquid phase or to thaw the solution in case of frozen DEF in the tank.

#### Operation

##### Basic Principle

When the vehicle ECU detects the risk of DEF freezing, or detects frozen DEF solution in the tank or in the module, the DEF heater is switched on by an external relay or power switch, warming the DEF into liquid phase.

##### Packaging Options

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

#### Features

- ◆ Self regulated PTC heating elements
- ◆ 250W @ 24V power rating
- ◆ Stainless steel body
- ◆ Choice of connectors and terminals

#### Benefits

- ◆ Robust construction makes this heater well suited to harsh environments
- ◆ All raw materials used are designed for permanent contact with DEF solution, to avoid poisoning of the catalyst
- ◆ Intrinsically safe, surface temperatures cannot reach dangerous levels
- ◆ PTC self regulates the power absorption in function of DEF flow and temperature

#### Applications

- ◆ SCR systems in passenger car, commercial vehicles or power generator
- ◆ DEF tank or module

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### Functional Characteristics

Parameter			
Type			
PTC Heater			
Electrical			
Voltage	Min	V	16V
	Max	V	32V
Rating	Power	W	250W @ 24V
Thermostat			Not present
Environmental/Mechanical			
Temperature	Operating	Celsius	-40° to Tamb
	Storage	Celsius	-40° to +100°

### Littelfuse

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