

## Automotive Sensor Products

### DEF Heater – Post Style



#### 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

#### 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.

#### Applications

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

## Automotive Sensor Products

### 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

Website: [www.littelfuse.com](http://www.littelfuse.com)  
 Sales Support: [ALL\\_Autosensors\\_Sales@littelfuse.com](mailto:ALL_Autosensors_Sales@littelfuse.com)  
 Technical Support: [ALL\\_Autosensors\\_Tech@littelfuse.com](mailto:ALL_Autosensors_Tech@littelfuse.com)

Information provided by Littelfuse is believed to be accurate and reliable.  
 All rights reserved. Trademarks and registered trademarks are the property of their respective owners.  
 Littelfuse products are designed for specific applications and should not be used for any purpose (including, without limitation, automotive applications) not expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse product documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse product documentation.