

# Automotive Sensor Products

## Blow-By Heater



### Features

- ♦ Self regulated PTC heating elements
- ♦ Wide power range available
- ♦ Choice of connectors and terminals

### Benefits

- ♦ Robust construction makes this heater well suited to harsh environments
- ♦ PTC self regulates the power absorption in function of flow and temperature of the Blow-by gases
- ♦ No external thermostat needed due to low power consumption

### Applications

- ♦ All diesel and gasoline engines

### General Description

Blow-by gases escape from the combustion chamber of the engine and reach the crankcase. These gases must be re-circulated in the intake manifold to avoid overpressure damages to the engine. When the gases reach the intake manifold they expand and the moisture contained within them can become ice, damaging the turbocharger.

The Blow-by Heater keeps these gases warm and prevents ice formation.

### Operation

#### Basic Principle

When the vehicle ECU detects the risk of ice formation, the Blow-by Heater is switched on by an external relay or power switch. The Blow-by Heater warms the re-circulated crankcase gases, which avoids the risk of damages to the compressor.

#### Packaging Options

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

## Automotive Sensor Products

### Functional Characteristics

Parameter			
Type			
PTC Blow-by Heater			
Electrical			
Voltage	Min	V	8V
	Max	V	16V
Rating	Power	W	15W @ 12V
Thermostat			Not present
Environmental/Mechanical			
Temperature	Operating	Celsius	-40° to +125°
	Storage	Celsius	-40° to +125°

### 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.