



## Sealed Coolant Temperature Sensor

The Coolant Temperature Sensor (CTS) monitors the temperature of the coolant that is pumped around the battery to cool the battery module in Electric Vehicles (EV) and Plug-in Hybrid Electric Vehicles (PHEV). The purpose of this sensor is to relay signal to the battery management system (BMS) in the event of overheating. Should this happen, the vehicle can be stopped and the charging switched off before the heat causes any permanent damage to the battery.

### Features

- R @ 25°C:  $2828\Omega \pm 1.3\%$
- B (25/85):  $3975K \pm 0.75\%$
- Operating Temperature Range:  $-40^{\circ}\text{C} \sim 100^{\circ}\text{C}$
- Operating Pressure Range: 0 Bar ~ 30 Bar
- Burst Pressure: 100 Bar (max)
- Response Time: 5 seconds from  $25^{\circ}\text{C}$  to  $85^{\circ}\text{C}$  in water
- Installation Torque: 5.0 N-m ~ 9.5 N-m
- Connector: USCAR 3140x-2110  
USCAR 064 SEALED (Designed IP67 Compliant)
- RoHS Compliant (Directive 2002/95/EC)



### Applications

- Battery Coolant Temperature
- Refrigerant Temperature

#### Ordering Options

Part Number	Resistance @ 25°C
WTF083B001	$2828\Omega \pm 1.3\%$