PRODUCT INFORMATION
COOLANT TEMPERATURE SENSOR

- → Accuracy & Precision: HELLA sensors provide accurate temperature readings crucial for the ECU to manage fuel mixtures (more fuel when cold, less when warm) and ignition timing.
- → Performance Optimization: Correct data from the sensor leads to better fuel economy, lower emissions, and smoother engine operation.
- → Engine Protection: It triggers dashboard warnings if the engine overheats, preventing severe damage like a blown head gasket.
- → Quality & Durability: Designed to withstand harsh engine bay conditions, offering reliable, long-lasting performance.

PRODUCT FEATURES

HELLA is among the leading providers in the area of sensor systems - our coolant temperature sensor also meet the highest functional and quality demands.

Coolant temperature sensors are an integral part of the cooling circuit. It detects the engine operating temperature. Should it exceed a fixed target value, a respective warning message is triggered. This allows avoiding greater engine damage early, e.g. a defective cylinder head gasket.

A coolant temperature sensor (CTS) monitors engine coolant temperature, sending data to the Engine Control Unit (ECU) or module (ECM) to adjust fuel, ignition, and fan operation, preventing overheating and ensuring efficiency. Signs of failure include erratic gauges, poor fuel economy, and the Check Engine light, while symptoms can range from stalling to actual overheating due to incorrect readings. Replacement is often simple, inexpensive, and usually involves unscrewing the sensor from the cylinder head or engine block, though it's essential to perform proper system maintenance during the swap.

Symptoms of a Bad CTS

- → Erratic or inaccurate temperature gauge: (jumping around, staying cold)
- → Poor fuel economy, as the ECU might inject too much fuel
- → Check Engine Light: illuminating
- → Engine overheating, as the fan might not engage
- → Rough idling, stalling, or poor acceleration

Location & Replacement

- → Location: Typically found on the cylinder head or engine block, near the thermostat housing, but varies by vehicle.
- → Replacement: A low-cost, relatively easy DIY job; involves siphoning some coolant, unscrewing the old sensor (often held by a clip), installing the new one with a fresh O-ring, and reconnecting the electrical connector.

HELLA COOLANT TEMPERATURE SENSORS

What happens if a coolant temperature sensor is faulty?
A failing sensor causes issues like increased fuel consumption, rough idling, poor starting, or the engine running too rich or lean, and a HELLA replacement fixes these by restoring proper engine management.

Product features, specifications and availability are subject to change without notice.

HELLA Automotive Sales, Inc.
611 Highway 74 S, Suite 102
Peachtree City, GA, 30269
Tel.: +1 (877) 224-3552
Fax: +1 (770) 631-7574
www.hella.com/us/
www.myhellalights.com