



T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

Cylinder Head Temperature Sensor



Applications

This small, robust sensor designed specifically for motorbike applications. It is a miniature version of a proven, high-volume automotive cylinder head temperature sensor. The purpose of this sensor is to accurately monitor engine head temperature for Engine Management Sensors (EMS) type applications and/or improved emissions.

Description

This rugged aluminum sensor is compact for cylinder head temperature applications. The flying lead configuration gives the system engine and mounting flexibility.

Data

Sensor has passed rigorous environmental testing:

- Low to high temperature cycle testing
- Long-term thermal aging

Amphenol
Advanced Sensors

Features

- $R @ 25^{\circ}\text{C} = 47,550 \Omega$ nominal
- $R (145^{\circ}\text{C}) = 1 \text{ k}\Omega \pm 3\%$
- $B (25/85) = 3970 \text{ K} \pm 2\%$
- Normal working temperature: $0 \sim 200^{\circ}\text{C}$ (only case part)
- Maximum occasional operational temperature: 220°C (only case part)
- Insulation resistance $>100 \text{ M}\Omega @ 500 \text{ VDC}$
- Lead insulation to withstand 1500 V (AC) for 1 sec
- Time response: 3 to 5 seconds

Options

Consult factory for availability

- Other resistance values in the range of 1000Ω to $100 \text{ k}\Omega$
- Other tolerances or ranges
- Alternative lead wire or lengths

Ordering Information

Contact your local account manager

