

冷却液温度传感器 Coolant Temperature Sensor

产品介绍 Product Description

安装在发动机缸体水套或冷却液管路中，与冷却液接触，用来检测发动机的冷却液温度。ECU收到该温度信号后修正喷油时间和点火时间。

It is installed in the water jacket or coolant pipeline of the engine block to detect the coolant temperature. After receiving the temperature signal from coolant sensor, ECU will correct the injection time and ignition time.

产品特征及优势 Feature and benefits

- ◆ 提供多种温度电阻范围
Provides a variety of gas detection
- ◆ 具备长期稳定性
Long term stability
- ◆ 快速响应时间
Rapid response time
- ◆ 可自定义安装形式
Can custom installation forms
- ◆ 不受恶劣环境影响
Unaffected by harsh environments
- ◆ 小巧坚固的包装
Small robust package

产品作用 Application

- ◆ 车用冷却液温度检测
Detection of vehicle coolant temperature
- ◆ 车用油液温度检测
Vehicle oil temperature detection



冷却液温度传感器
Coolant Temperature sensor

操作Operation

◆ 基本原理 Basic principle:

发动机冷却液温度传感器细长的头部与冷却液接触，它的内部装有负温度系数的热敏电阻。当发动机冷却液温度逐渐升高时，热敏电阻的阻值将逐渐下降，相反则增大，结果发动机冷却液温度发生变化时传感器的输出电压也相应变化。ECU接收冷却液温度传感器传来的信号后，对发动机的喷油时间和点火时间进行修正。。

The engine coolant temperature sensor has a slender head in contact with the coolant and a thermistor with a NTC inside. When the temperature of engine coolant gradually increases, the resistance value of thermistor will gradually decrease, and on the contrary, increase. As a result, when the temperature of engine coolant changes, the output voltage of the sensor will also change, After the ECU receives the signal from the coolant temperature sensor, the fuel injection time and ignition time of the engine are corrected.

◆ 连接选项 Connection options:

根据客户选择定制连接系统
Customized to customer choice of connection system

◆ 包装选项 Packaging Options:

可提供定制包装以满足任何需要，请联系KESENS技术部了解详情。
Custom packaging can be provided to meet any need, please contact KESENS Engineering for details.

冷却液温度传感器 Coolant Temperature Sensor

技术参数 Functional Characteristics

| | |
|---------------------------------------|-------------------|
| 参数 Parameter | |
| 类型 Type | |
| 输出 Output | 电阻值 Voltage value |
| 电气特性 Electrical | |
| 温度范围 Supply Voltage | -40~130°C |
| 电阻范围 Output Voltage | 0.1~33.85Ω |
| 环境/机械 Environmental/Mechanical | |
| 工作温度 Working Temperature | -40° to +105° |
| 安装扭矩 Mechanical Shock | ≤20N.m |

可根据需要定制电气和环境规范，详情请联系KESENS技术部。

Custom electrical and environmental specifications can be designed to meet any need, please contact KESENS Engineering for details.