

氧传感器 Oxygen Sensor

产品介绍 General Description

氧传感器是一种检测发动机废气中氧的含量的传感器，它将自身产生的电压信号反馈给发动机电子控制单元（ECU）用于空燃比闭环控制。

Oxygen sensor is a sensor that detects the amount of oxygen in the exhaust gas of engine. It feeds back its own voltage signal to the engine electronic control unit (ECU) for air-fuel ratio closed-loop control.



氧传感器

Oxygen Sensor

产品特征及优势 Feature and benefits

- ◆ 可靠性好 Strong reliability
- ◆ 起燃时间短 Short light-off time
- ◆ 抗中毒能力强 Strong anti-poisoning ability
- ◆ 信号稳定 Stable signal
- ◆ 密封性能好 Good sealing performance
- ◆ 响应速度快 Quick response

产品应用 Application

- ◆ 降低汽车油耗 Reduce car fuel consumption
- ◆ 提高催化器效率 Improve the efficiency of the catalytic converter
- ◆ 参与闭环控制 Participate in closed-loop control

技术参数 Functional Characteristics

产品参数 Product parameters

项目 Item	条件 Condition		标准 Standard
输出电压 Output voltage	排气温度 $\geq 350^{\circ}\text{C}$ 加热器工作电压 $13\text{V} \pm 0.5\text{V}$ Exhaust gas temperature $\geq 350^{\circ}\text{C}$ Heater operating voltage $13\text{V} \pm 0.5\text{V}$	$\text{Lambda} = 0.97$	$\geq 750\text{mv}$
		$\text{Lambda} = 1.03$	$\leq 100\text{mv}$
响应性能 Response performance	排气温度 $\geq 350^{\circ}\text{C}$ 加热器工作电压 $13\text{V} \pm 0.5\text{V}$ Exhaust gas temperature $\geq 350^{\circ}\text{C}$ Heater operating voltage $13\text{V} \pm 0.5\text{V}$	600mv—300mv	$\leq 200\text{ms}$
		300mv—600mv	$\leq 100\text{ms}$
加热电阻 Heater resistance	$20^{\circ}\text{C} \pm 1^{\circ}\text{C}$		$8.5\Omega \pm 1.5\Omega$
起燃时间 Light-off time	$\leq 12\text{s}$		
静态λ值 Static lambda	新鲜氧传感器 New oxygen sensor		1.004 ± 0.005
加热功率 Heating power	$\leq 7\text{W}$		

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.