

曲轴位置传感器 Crankshaft Position Sensor

产品介绍 Product Description

曲轴位置传感器的作用就是确定曲轴的位置，也就是曲轴的转角。它通常要配合凸轮轴位置传感器一起来工作——确定基本点火时刻。

The role of the crankshaft position sensor is to determine the position of the crankshaft, which is the crankshaft Angle. It usually works with camshaft position sensors to determine the basic ignition timing

产品特征及优势 Feature and benefits

- ◆ 提供多种齿轮齿形传感范围
Provides a variety of gear tooth shape sensing range
- ◆ 非接触测量
Non-contact measuring
- ◆ 多种结构及安装形式
A variety of structure and installation form
- ◆ 寿命长Long life
- ◆ 高速High speed
- ◆ 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

- ◆ 车用曲轴位置检测
Camshaft position detection for vehicles



曲轴位置传感器

Crankshaft Position Sensor

操作Operation

◆ 基本功能Basic function:

曲轴位置传感器通常安装在分电器内，是控制系统中最重要的传感器之一。其作用有：检测发动机转速，因此又称为转速传感器；检测活塞上止点位置，故也称为上止点传感器，包括检测用于控制点火的各缸上止点信号、用于控制顺序喷油的第一缸上止点信号。

The crankshaft position sensor is usually installed in the distributor and is one of the most important sensors in the control system. Its function has: the detection engine speed, therefore also called the speed sensor; Detecting the position of the piston UPPER dead center, also known as the UPPER dead center sensor, includes detecting the upper dead center signals of each cylinder used to control the ignition and the upper dead center signals of the first cylinder used to control the sequential injection.

◆ 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.

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技术参数 Functional Characteristics

参数 Parameter	
类型Type	
速度传感器 Speed sensor	
输出 Output	电压值 Voltage value
电气特性Electrical	
电阻值 Supply Voltage	$860\pm 86\Omega$
电感值 Output Voltage	$L=370\pm 60\text{mH}$ (1KHz)
输出电压峰值 Supply Current	$U_{pp}\geq 0.4\text{V}$
环境/机械Environmental/Mechanical	
工作温度 Working Temperature	-40° to $+130^{\circ}$
安装扭矩 Mechanical Shock	$8\pm 2\text{N.m}$
气隙 Air gap	$1.5\pm 0.1\text{mm}$
转速 Speed max	$60\pm 2\text{rpm}$

可根据需要定制电气和环境规范，详情请联系KESENS研发部。

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