

凸轮轴位置传感器

Camshaft Position Sensor



产品介绍 Product Description

凸轮轴位置传感器是基于霍尔原理而设计的，安装于发动机中通过采集凸轮轴位置信号，输入给ECU依次进行喷射控制、点火正时控制和爆震控制。

This product is designed based on Hall principle. Camshaft position sensor installed in the engine that collects camshaft position signals and inputs them to ECU for injection control, ignition timing control and knock control.

产品特征及优势 Feature and Benefits

- Hall传感技术
Hall effective sensing technology
- 检测精度高，响应速度快
High accuracy and fast response
- 插头出线方向和角度灵活，安装外形尺寸等可定制
Customized flexible connector outlet orientation and sensor mounting dimensions
- 非接触式传感器，使用寿命长，可靠性高
Non contact sensing with long service life and high reliability
- 标准方波输出
Standard square wave output
- 相位精度高，全温区范围漂移小
High phase accuracy and small temperature drift across entire temperature range
- 具有TPO功能
TPO function
- 适合发动机严苛工作环境条件
Suitable for harsh working environment

产品应用 Product Application

检测发动机凸轮轴和气门的位置信号，输入给ECU识别气缸1的压缩上止点，依次进行喷射控制、点火正时控制和爆震控制。

The camshaft sensor detects the position of the engine camshaft and valves and sends it to the ECU to identify the TDC of cylinder 1, and then conduct injection control, ignition timing control and knock control in turn.

操作 Operation

基本原理 Basic Principle

向ECU输入发动机气门位置信号，提供点火控制的信号，收集凸轮轴的动角信号，从而确定点火时期和喷油时期。

Input the engine valve position signal to the ECU, provide the ignition control signal, and collect the dynamic angle signal of the camshaft to determine the ignition time and fuel injection period.

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 KESSENS Engineering for details.

技术参数 Technical Characteristics

参数PARAMETER	最小值MIN.	额定值NOM.	最大值MAX.	单位UNITS	备注COMMENT
工作温度 TEMPERATURE RANGE	-40		150	°C	
供电电压 SUPPLY VOLTAGE	4.75	5	5.25	V	
供电电流 SUPPLY CURRENT		5.5	7	mA	
低电平信号 LOW LEVEL SIGNAL	0		0.5	V	
高电平信号 HIGH LEVEL SIGNAL	4.75		5	V	
输出上升时间 OUTPUT RISE TIME			20	us	
输出下降时间 OUTPUT FALLING TIME			10	us	
工作气隙 OPERATION AIRGAP	0.4	1.0	1.6	mm	
转速范围 ROTATION SPEED RANGE	0		4500	rpm	

可根据客户需求定制产品，如有需求请联系我们。

Customized products available upon request. Contact us for details.

地址：浙江省嘉兴市经济技术开发区天枢路199号

Add: No. 199, Tianshu Road, Economic and Technological Development Zone, Jiaxing City, Zhejiang Province, China.

电话 (Tel) : 0573-82858999

邮箱 (E-mail) : info@kesens.com

网址 (Web) : www.kesens.com

