

变速箱输入输出转速传感器

Transmission Input & Output Speed Sensor



产品介绍 Product Description

该产品是基于霍尔原理而设计的，安装于变速箱中的检测输入和输出速度的二合一传感器。

The product is designed based on Hall effective principle and it was installed in the gearbox. it combines input speed and output speed sensor into one product.

产品特征及优势 Feature and Benefits

- 工作温度范围广，为-40-150℃。
The working temperature range is - 40-150 ℃.
- 密封、磁操作的非接触式传感，使用寿命长，可靠性高。
Hermetically sealed, magnetically operated non-contact sensing gives excellent life and reliability.
- 在转轴正转和反转时，能输出不同信号作为区分。
Sensor with direction detection, the output signal pulse width is different between forward and reverse rotation of the rotating shaft.
- 坚固的结构使该传感器非常适合恶劣的环境。
Robust construction makes this sensor well suited to harsh environments.
- 高精度。
High Accuracy.
- 根据客户要求，多种量程可定制。
According to customer requirements, a variety of ranges can be customized.

产品应用 Product Application

变速器输入速度和输出速度/方向检测，传感器信号输入控制器用以控制相应的执行器，确保变速箱正常工作状态和性能。

Transmission input/output speed sensor sends the input/output shaft speed and direction signal to controller and TCU can control actuators to assure transmission system operation status and performance.

操作 Operation

基本原理 Basic Principle

该传感器芯片内存在两块霍尔单元，可根据外部磁场的变化做差分，这会导致传感器的输出电压随着目标轮的齿槽切换而输出高低电平脉冲。

There are two hall cells in the sensor chip, which can be differentiated according to the change of external magnetic field. The sensor will output low/high voltage pulse with the target wheel teeth and slot rotation.

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.

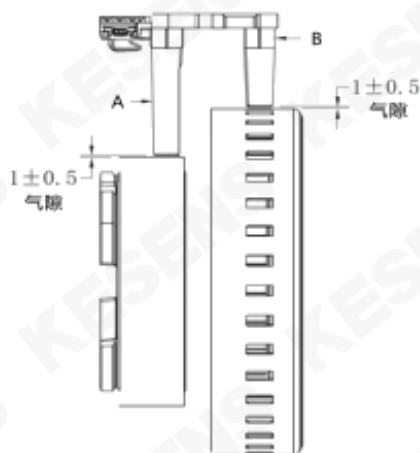
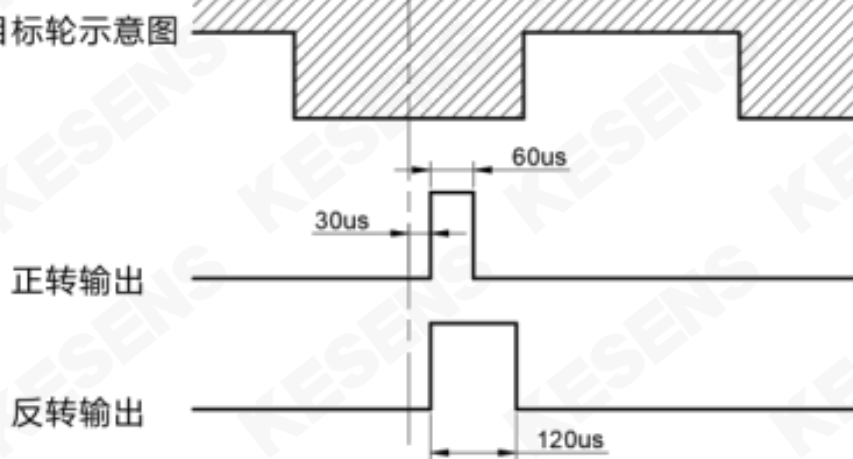
包装选项 Packaging Options

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.

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	8	8.5	9	V	
供电电流 SUPPLY CURRENT			200	mA	
正转脉宽 FORWARD ROTATION PULSE WIDTH	50	60	70	us	
反转脉宽 REVERSE PULSE WIDTH	102	120	138	us	
诊断脉宽 DIAGNOSTIC PULSE WIDTH	24	30	36	us	
低电平信号 LOW LEVEL SIGNAL	5.9		8.4	mA	
高电平信号 HIGH LEVEL SIGNAL	11.8		16.8	mA	
最大输出频率 MAXIMUM OUTPUT FREQUENCY			12000	Hz	
启动时间 START TIME			2	ms	
工作气隙 WORKING AIR GAP	0.5	1	1.5	mm	

目标轮示意图



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.

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