

车轮转速传感器 ABS Wheel Speed Sensor

产品介绍 Product Description

ABS车轮转速传感器测量车轮转速偏离典型目标，通常安装在轮毂/轴承总成内。

ABS/TCS/ESC控制模块可利用此信息导出防抱死制动、跟踪控制和电子稳定控制系统的车速功能。

The ABS/Wheel speed sensor measures wheel speed off a target typically mounted within the wheel hub/bearing assembly. The ABS/TCS/ESC Control Module can use this information derive vehicle speed functions for Antilock Braking, Tracking Control and Electronic Stability Control systems.



车轮转速传感器
Wheel Speed Sensor

产品特征及优势 Feature and benefits

- ◆ 目标轮（铁质或磁性编码器）在气弹簧总成内旋转时工作
Operates when target wheel (ferrous or magnet encoder) rotates within gas spring assembly
- ◆ 提供简单的埋入式和嵌入式安装选项 Simple flush and recessed mounting options available
- ◆ 提供内部电路保护 Internal circuit protection available
- ◆ 提供EMC/ESD保护 EMC / ESD Protection available
- ◆ 输出电路可选择 Choice of circuitry for Outputs
- ◆ 坚固的结构使该传感器非常适合恶劣环境
Robust construction makes this sensor well suited to harsh environments
- ◆ 寿命长，高达200亿次或以上 Long life, up to 20 billion operations or more
- ◆ 高精度 Engine Speed
- ◆ 零速运行 Zero speed operation

产品作用 Application

- ◆ 车轮转速 Wheel Speed
- ◆ ABS/TCS/ESC系统 ABS/TCS/ESC Systems
- ◆ 客户便利系统 Customer Convenience systems

操作 Operation

◆ 基本原理 Basic principle:

霍尔效应传感器根据外部磁场的变化而工作，从而导致传感器的输出电压发生变化。

Hall Effect sensors operate on the change in an external magnetic field which results in a change in the output voltage of the sensor.

◆ 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

霍尔传感器 Hall Effect Sensor

输出 Output

双态电流 Bi-State Current

电气 Electrical

工作电源输入 Operating Power Input	电压 Voltage	最小-最大Min-Max.	4 – 24 V
最大功率输入 Max Power Input	电压 Voltage	最大 Max..	24 V
低状态输出 Low State Output	电流 Current	最小-最大Min-Max..	5.9-9.4mA
高状态输出 High State Output	电流 Current	最小-最大Min-Max..	12-16mA
工作信号范围 Operating Signal Range	GPK-PK	最小-最大Min-Max..	50 - 1500
工作气隙 Operating Air Gap	毫米 mm	最小-最大Min-Max..	0.5 -1.5
占空比变化 (方向传感器) Duty Cycle Variation (Direction Sensor)			+/- 10%
带宽 Bandwidth	Hz	Max	20kHz

环境/机械 Environmental/Mechanical

温度 Temperature	工作 Operating	摄氏度 Celsius	-40° to +150°
	储存 Storage		-65° to 150°
冲击 Shock	11毫秒 ½ 正弦波 11ms ½ Sine	最大Max.	100g
振动 Vibration	20-2000赫兹 20 – 2000Hz	最大Max.	30g
密封 Sealing	IP6K7K 标准 IP6K7K Standard		最高可至IP6K9K Available Up to IP6K9K
可用连接 Connections Available	线束或集成连接器 Pigtail or Integrated Connector		Molex, Delphi, TE, and many more

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.