

## 角度传感器 Rotary Sensor

### 产品介绍 Product Description

该传感器检测轴的旋转并输出与不同角度位置相匹配的信号。

The sensor detects the shaft rotation and outputs the signal which can match the different angle position.

### 产品特征及优势 Feature and benefits

- ◆ 提供多种角度传感范围  
Varied Angular sensing ranges available
- ◆ 绝对旋转位置传感器  
Absolute rotary position sensor
- ◆ 模拟输出-PWM自定义选项 Analog Output – PWM custom options
- ◆ 非接触测量 Non-contact measuring
- ◆ 可编程角度范围-自定义选项 Programmable angular range – custom option
- ◆ 可提供顺时针和逆时针版本 Clockwise & Anticlockwise Versions available
- ◆ 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

- ◆ 踏板位置
- ◆ 绝对式旋转编码器
- ◆ 轴位置



角度位置传感器  
Rotary Position Sensor

### 操作 Operation

#### ◆ 基本原理 Basic principle:

传感器被装配到具有规定角度位置的轴上。当驱动轴旋转时，传感器内的磁铁也同时旋转。霍尔效应传感器正在启动，它将以线性方式输出电压。

The sensor is assembled to a shaft with a defined angle position. When the driving shaft is rotating, the magnet inside the sensor is also rotating at same time. The Hall Effect sensor is activating, which would output the voltage as linear.

#### ◆ 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.

## 角度传感器 Rotary Sensor

### 技术参数 Functional Characteristics

|                                       |  |         |               |
|---------------------------------------|--|---------|---------------|
| <b>类型 Type</b>                        |  |         |               |
| 霍尔效应传感器 Hall Effect sensor            | 可编程 Programmable   |         |               |
| 输出 Output                             | Analog or PWM  |         |               |
| <b>电气特性 Electrical</b>                |  |         |               |
| 电源电压 Supply Voltage                   | 5V±0.25 Vdc  |         |               |
| 输出电压 Output Voltage                   | 0.5 to 4.5 Vdc   |         |               |
| 线性度 Linearity                         | ±3%  |         |               |
| 电气角度 Electrical Angle                 | 起点: $-5^{\circ} \pm 1^{\circ}$ , 终点: $104^{\circ} \pm 1^{\circ}$<br>Start point: $-5^{\circ} \pm 1^{\circ}$ , End point : $104^{\circ} \pm 1^{\circ}$<br>另外也可根据客户需要定制<br>Available for customer defined range. |         |               |
| <b>环境/机械 Environmental/Mechanical</b> |  |         |               |
| 工作温度 Working Temperature              | Operating  | Celsius | -40° to +140° |
| 机械冲击 Mechanical Shock                 | 10ms Half Sine   | Max.    | 50g           |
| 正弦振动 Sine Vibration                   | 20 – 2500Hz  | Max.    | 40g           |
| 耐久寿命 Endurance Life                   |  | cycles  | 120,000       |

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.