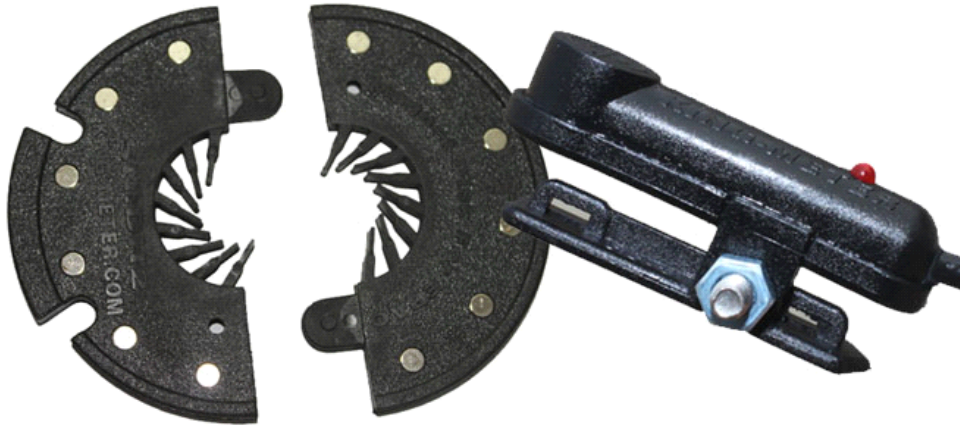


The specification of SPP-DH sensor



1. 功能介绍 (Function introduce)

SSP-DH 双霍尔传感器是适配快速组装型电动自行车使用的助力传感器,其主要应用于助力信号的检测。由于与之配套的是 12 磁钢的 DIY 磁盘,所以其精度比使用 6 磁钢的单霍尔传感器精度高,其传感距离比使用 6 磁钢的单霍尔传感器传感距离远,最远可达 6.0mm。 SSP-DH dual Hall sensor is a pedal assistant sensor adapted quickly assembled electric bicycles, which can be main used for the signal of power assisting for the bike. Compared with SH-SENSOR, DH-SENSOR equipped with DIY disc of 12 magnets, offers higher accuracy and further detection distance which can reach 6mm. I

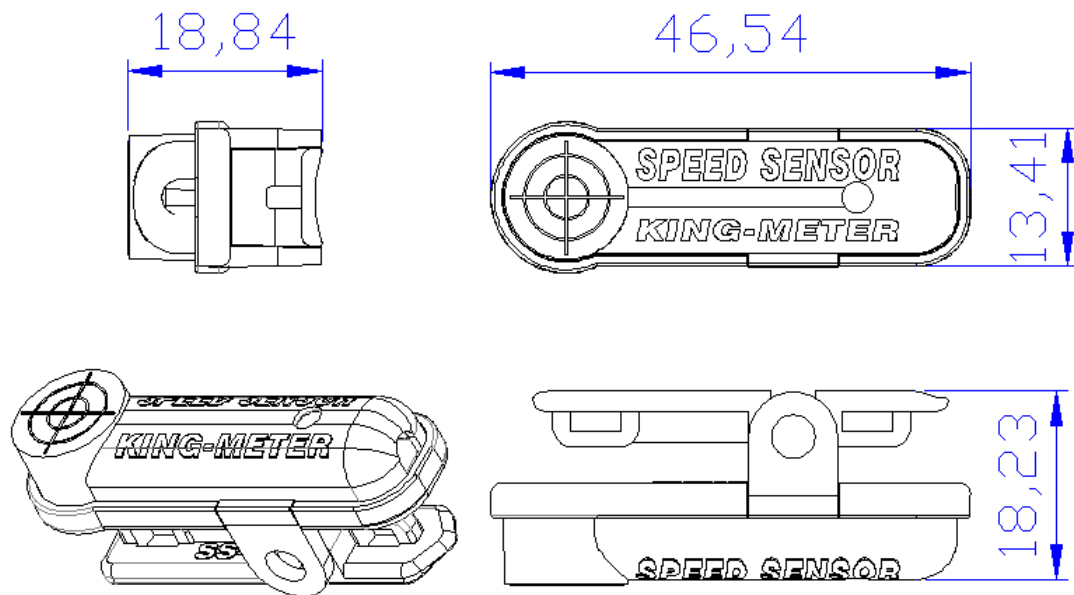
SSP-DH 双霍尔传感器的灵敏度较单霍尔传感器提高 2-3 倍,且不会有误动作。

脚蹬向前转,传感器输出脉冲信号,传感器上的红色 LED 会对应闪烁。脚蹬向后转,传感器输出低电平,指示灯不亮。这样能方便用户随时察看传感器是否有故障。 SSP-DH sensor with dual Hall is more sensitive 2-3 times than that with the single Hall sensor.

When pedal turns forwards, the sensor outputs a pulse signal and a red LED indicator flashes on the sensor. .

When pedal turns back, the sensor outputs low level signal, the red LED indicator is not lit. So that users can check any failure of sensor.

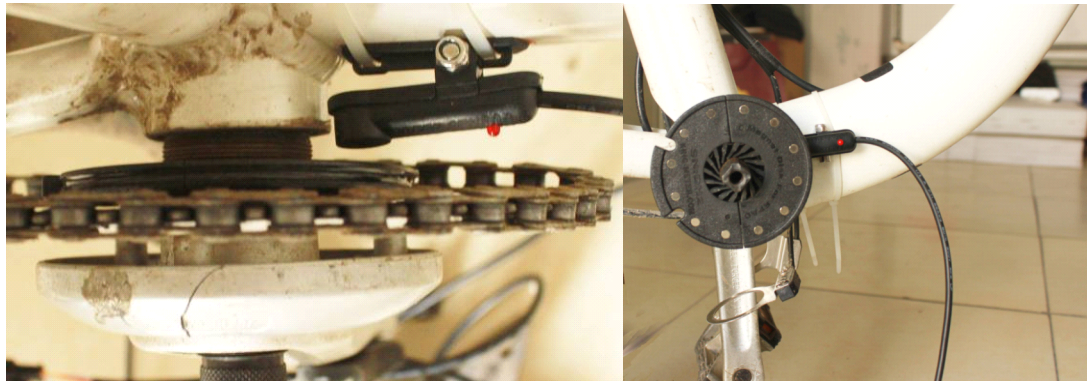
2. 外观尺寸、材料与图片 (Size, Material & Photos)



3. 安装位置 (Installation Instruction)

在电动车的车架上安装传感器，中轴上安装磁盘。磁盘的磁点必须对准传感器的十字标志，同时可调整传感器上支架角度，以提高敏感度。

Fix the sensor beside the frame of the bike, and put the disk through the pedal. To get a high sensitivity the magnetic dot of the disk must be faced to the cross mark and adjust angle trestle and sensor.



Top view

Front view

速度传感器的有效感应距离一般不大于 6mm。在安装时，应用扎带固定速度传感器。如果速度传感器距离磁头 6mm 以上，应使用胶垫适当垫高传感器。

The effective sense distance of the speed sensor is 6 mm to magnet. Install the speed sensor by ribbon tapes.

4. 技术参数及可靠性 (Specifications & Reliability)

电压: 4.5—6 伏特 (直流) • Rated Voltage: 4.5-6V (DC)

静态电流: <5 毫安 • Current without brake: <5mA

工作状态电流: <6 毫安 • Current with brake: <6mA
 引线拉力: >20 牛顿 • Lead tension: >20N
 霍尔响应时间: <0.001 秒 • Corresponding time when brake: <0.001S
 响应距离: >5 毫米 • Corresponding distance: 2-3mm
 霍尔感应寿命: >2 千万次 • Hall electrical life: >20M times
 干态绝缘: >20 兆欧 • Insulation dry condition: >20M ohm
 湿态绝缘: >2 兆欧 • Insulation wet condition: >2M ohm

5. 接插件与引线 (Connector & Cable)

所用接插件可以根据客户要求定做。

线色定义如下:

1. 红: +5V
2. 黄: 地线,
3. 蓝: 脉冲信号

All the connectors can be customer by users.

Following is the line color definition:

1. Blue: Signal
2. Red: 5V
3. Yellow: GND

6. 可靠性测试 (Dependability Test)

测试项目 Test item	测试条件 Test condition	性能 Result
引线端子拉力强度 Tensile tests of the connector	拉力 20N 维持时间 60S >20N, 60S	无拉脱现象 OK
外壳引线拉力强度 Tensile tests of the cable	拉力 30N 维持时间 60S >30N, 60S	无拉脱现象 OK
引线对外壳绝缘度 1 Lead to shell insulation NO. 1	ZC25-3 型兆欧表 干态, 湿度 80% Dry, Humidity 80%	>20M
引线对外壳绝缘度 2 Lead to shell insulation NO. 2	ZC25-3 型兆欧表 喷淋态 Spray	>20M
耐高温测试 High temperature test	90±2℃ 5V >2hours	OK

低温测试 Low temperature test	—20±2℃ 5V >8hours	OK
振动测试 Vibration test	20Hz 5V 持续时间:2h	工作正常 OK
恒定湿热 Constant damp	45±2℃ 5V 湿度 90%±5% >2hours Humidity 90%	工作正常 OK
喷淋模拟 Spray	5V >2hours	工作正常 OK

7. 环保要求 (RoHS & CE)

符合 RoHS 和 CE，防水等级 IP65

Meet with the standard of RoHS and CE Report, the waterproof grade is IP65.

8. 技术确认 (Signature the Spec)

本确认书的认同，须经双方书面确认，任何一方单独修改无效。
本确认书在对方收到后，7 个工作日内须签字盖章确认，逾期视为默认同意。

This confirmation, must be approved by both sides, any one party modification is invalid.

After receiving the confirmation in each other, 7 workdays must be signed confirmation, overdue as default and agree.