PSS-341021

Car parking detector switch Sensor

Product introduction

PSS-341021 The module is equipped with voltage stabilization circuit, the working voltage is 3.3V-5V, the pin level is compatible with 3.3V/5V embedded system, easy to connect. Supports serial port and IIC digital interface, IIC is directly connected chip, convenient for users to choose the best development connection mode.

Detection principle

The basic principle that the resistance characteristics of current-carrying magnetic materials change when an external magnetic field is present are used to measure the change of magnetic field. When the sensor is switched on, assuming there is no external magnetic field, the thin film alloy will have an internal magnetization vector parallel to the direction of the current.

Product features

❖ The serial port can output the heading angle interpreted by the magnetic field, and the maximum data output rate is 100Hz.
❖ The output rate is adjustable from 0.1~100Hz

Product parameters

Parameters	
Measure content	Magnetic field and angle in three axes
Sensor type	Semiconductor series
Range	-8 Gauss ~+8Gauss
Sensitivity	3,000LSB/ Gauss
Communication rate	9600
Communication method	IIC communication and serial port communication
Communication	
Output signal	Switch
Machinery	
Size	15.24mm * 15.24mm * 7.8mm
Supply voltage	DC 3.3V~5V
Operating current	<6mA

Application

Measure the magnetic field and angle of the three-axis, and the smart city provides convenient parking.

Ordering Guide

❖ PSS-341021 sensor is a sensor only, it needs to use with WxS terminals to combine to different product series; On the basis of the combination, multiple PSS sensors can be loaded through the Multiple Purpose Interface (MPI) of the intelligent IoT terminal.

❖   According to the specific scenario of use case, the enclosure and antenna of intelligent IoT terminal will be replaced to ensure the product quality and performance.

❖   PSS sensors can be integrated with the WxS terminal via the MPI interface to form different product series.

❖   Example of products are as follows:

- o   WxS7800-341021WiFi Series Car parking detector switch Smart Sensor & RTU 2-in-1 Terminal
- o   WxS8800-341021 LoRaWAN Series Car parking detector switch Smart Sensor & RTU 2-in-1 Terminal
- o   WxS9800-341021 NB-IoT (China) Series Car parking detector switch Smart Sensor & RTU 2-in-1 Terminal
- o   WxS9900-341021NB-IoT (Global) Series Car parking detector switch Smart Sensor & RTU 2-in-1 Terminal
- o   WxSC800-341021LTE Cat1 Series Car parking detector switch Smart Sensor & RTU 2-in-1 Terminal
- o   WxSC900-341021LTE Cat1 w/GPS Series Car parking detector switch Smart Sensor & RTU 2-in-1 Terminal
- o   WxSD800-341021 LTE Cat4 Series Car parking detector switch Smart Sensor & RTU 2-in-1 Terminal
- o   CxS1800-341021Ethernet (RJ45) Series Car parking detector switch Smart Sensor & RTU 2-in-1 Terminal