

Tilt Sensor Module

Module Description

1. The sensor can sense the change of the angle of the object
- 2 .Working voltage 3.3V-5V
- 3 .Output form digital switch output (0 and 1)
4. With fixing bolt holes for easy installation
- 5 .PCB size: 3cm * 1.6cm

Module Interface Description (3-wire system)

1. VCC external 3.3V-5V voltage (can be directly connected to 5v microcontroller and 3.3v microcontroller)
2. GND External GND
3. DO small board digital output interface (0 and 1)

Note: AO port is invalid here, no need to do any processing.

Instructions For Use

1. The tilt sensor adopts MEC original tilt switch SW-460D, which has high sensitivity and is generally used to detect the change of the angle of the object.
2. When the module has no tilt or the tilt angle does not reach the set threshold, the DO port outputs a high level; when the sensor tilt angle exceeds the set threshold, the module DO outputs a low level;
3. The digital output DO of the small board can be directly connected with the single-chip microcomputer, and the high and low levels are detected by the single-chip microcomputer, thereby detecting the change of the angle of the object;



4. The digital output DO of the small board can directly drive the relay module of our store, which can form a tilt switch

Module Applications

Tire pressure monitoring system (TPMS), bicycle lights, digital photo frame rotation, screen rotation, video camera flip, anti-theft system

Test Instructions

Use 51 development board and tilt sensor module test

Wiring Instructions:

The module VCC is connected to the development board VCC

The module GND is connected to the development board GND

Connect VCC and GND, the module power indicator will be on

Place the module horizontally on the table, slowly rotate the module in one direction, the switch indicator will light up, and then rotate the module in the opposite direction to return to the original state, and the switch indicator will be off. This phenomenon means that changing the angle of the sensor can trigger the module, so that the switch indicator lights up.