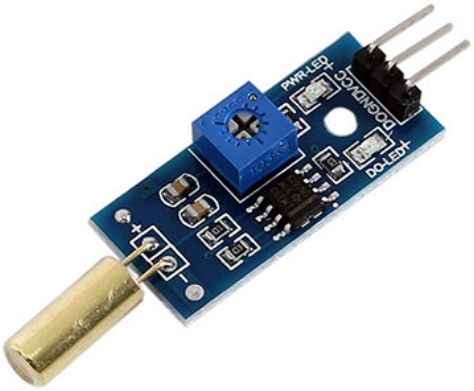
Arduino Angle Tilt Sensor Module 1 Way User Manual



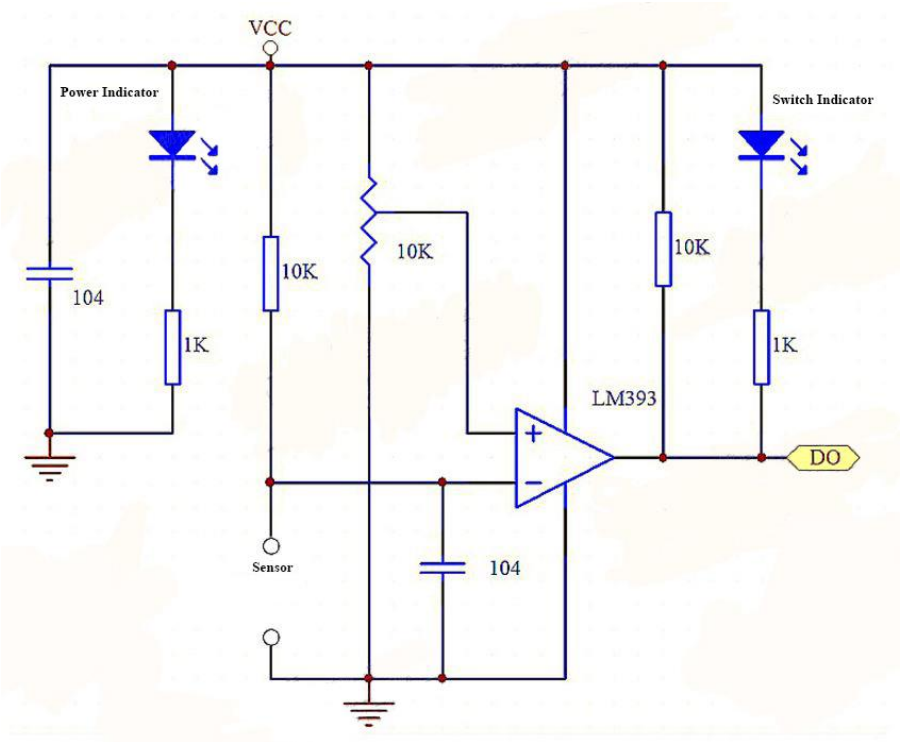
Module Statement:

1, the module output switch depends on the angle switch on and off, when the angle switch is turned off, DO output high, angle switch turns on, DO output low;

2, the output can be directly connected with the microcontroller through the microcontroller to detect high and low power, thereby detecting an angle change;

3, the output can directly drive the relay module, which can form a large power of the angle switch to protect electrical equipment and other products, automatic power-down function when dumping.

Schematic:



Programming:

```
/****************************************

Sensor trigger test

Microcontroller: STC89C52

Baud rate: 9600

Product use: motion sensor trigger, alarm trigger.

****************************************/

#include <reg52.h>

unsigned char date;

#define uchar unsigned char

#define uint unsigned int

sbit key1=P0^1

/* Function declaration ----------------------------------------------*/

void delay(unit z);

void Initial_com(void);

//*********************************************************

/*

*************************************************************************

** The function name: delay(unit z)

** Function: Delay function

*************************************************************************

*/

Void delay(unit z)

{

unit i,j;
```

```
for(i=z;i>0;i--)

for(j=110;j>0;j--)

}

//*******************

//***** Serial initialization function***********

//*******************

void Initial_com(void);

{

EA=1； //Open the total interruption

ES-1; / / allow the serial port interrupt

ET1 = 1; // Enable timer T1 interrupt

TMOD-0x20; / / Timer T1, in mode 2 interrupt baud rate

PCON:0x00; //SMOD=0

SCON=0x50； // Mode 1 is controlled by a timer

TH1 = 0xfd; // Set the baud rate to 9600

TL1=0xfd；

TR 1 = 1; // On Timer T1 Run Control bit

}

//************************

//**********Main function*********

//************************
```

```
main()
{
Initial_com();
while(1)
{
Delay(); / / eliminate jitter
If (key1 == 0) / / confirm the trigger
{
SBUF=0X01;
delay(200)；
}
{
if(RI)
{
Date = SBUF; / / single-chip receiver
SBUF = date; / / single-chip transmission
RI=0;
}
}
}
```