search

DFRobot Products (DFR) Index
Sensor (SEN) Index
Telecom Module (TEL) Index
Motor Driver (DRI) Index
Fitting (FIT) Index
Robot (ROB) Index
micro:bit (MBT) Index
Kit (KIT) Index
Toy (TOY) Index
Servos (SER) Index
What is XX series
How to select series
How it works series
PinPong Library

Introduction
Specification
Board Overview
Tutorial
FAQ
More Documents

SKU:SEN0433

Introduction



Get this vibration sensor to build a burglar alarm system to protect your property. This cost-effective vibration sensor, characterized by high sensitivity, fast response and stable performance, is designed to detect vibration signals through its internal inductance coil. It supports 5~15V power supply and comes with digital signal output, adjustable sensitivity and onboard LED indicator for feeding back sensor status. When the vibration is detected, the sensor outputs Low and its indicator turns on. It can be connected with Arduino to make alarm system, vibration monitor, etc.

Specification

- Power Supply: 5-15V
- Output: switch quantity(output low)
- Output Current: ≤100mA(Max Load Current)
- Static Current: ≤6mA

Board Overview



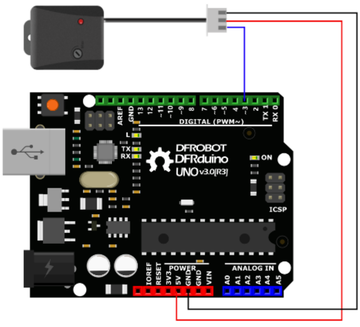
Num	Label	Description
1	GND	Sensor Power -
2	VCC	Sensor Power +
3	OUT	Sensor Signal Output

Tutorial

Requirements

- Hardware
  - DFRduino UNO R3 (or similar) x 1
  - Vibration Sensor x1
- Software
  - Arduino IDE

Connection Diagram

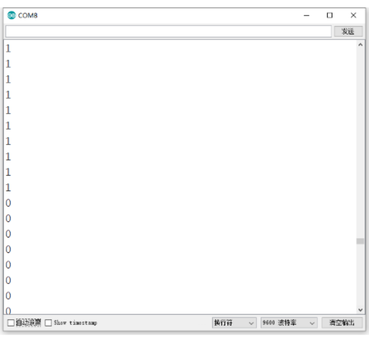


Sample Code

```
/*!
 * @File  Infrared_Approach_Sensor.ino
 * @brief  Detect the status of IO3 and print it in serial por
 * @copyright  Copyright (c) 2010 DFRobot Co.Ltd (http://www.d
 * @licence  The MIT License (MIT)
 * @version  V1.0
 * @date  2021-03-15
 */
int  OUT = 4;
int  i = 0;
void setup()
{
  Serial.begin(9600);
  pinMode(OUT, INPUT);
}
void loop()
{
   i = digitalRead (OUT);
   Serial.println(i);
   delay(5);
}
```

Expected Results

Read the IO3 status: when vibration detected, serial print 0, otherwise, serial print 1.



FAQ

For any questions, advice or cool ideas to share, please visit the DFRobot Forum.

More Documents

Downloaded from Arrow.com.