



Gravity: Digital Infrared Motion Sensor For Arduino

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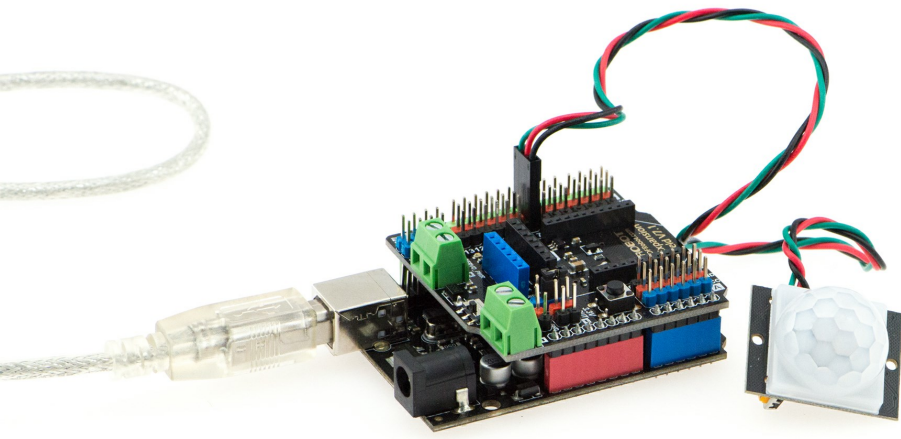
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Gravity: Digital Infrared Motion Sensor For Arduino		URM37 V4.0 Ultrasonic Sensor For Arduino / Raspberry Pi		Gravity: Analog Sound Sensor For Arduino		Gravity: Digital Adjustable Infrared Proximity Sensor	
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INTRODUCTION

This is a simple to use arduino motion sensor. Power it up and wait 1-2 seconds for the sensor to get a snapshot of the still room. If anything moves after that period, the 'alarm' pin will go low. This sensor checks for infrared heat in it's detecting angle. Human body, pets and several other things emit energy that the sensor is looking for, it compares with the snapshot and if there is a recent change it triggers.

Get on with your Home alarm security audit gear and experiment with this sensor to get a better understanding about its efficiency and working method. Infrared motion detectors are common all around the world for many different appliances. It's great for an Arduino or home automation project that requires automated motion feedback. Commonly found on automatic trigger light systems, where lights are ON when someone is in range and OFF when no one is around. Save power or trigger other actuators like a door opener or pet feeder.

The delay of sensing is adjustable via the potentiometer on the back of the sensor.



To ease the difficult of using this sensor, a [Gravity Interface](#) is adapted to allow plug&play. The [IO expansion shield](#) is the best match for this sound sensor connecting to your [Arduino](#). As this sensor can work at 3.3V which make it compatible with [Raspberry Pi](#), [intel edison](#), [joule](#) and [curie](#).

SPECIFICATION

- Type: Digital
- Supply Voltage:3~5V
- Current:50μA
- Working temperature:0°C~ +70°C
- Output level(HIGH):4V
- Output level(LOW):0.4V
- Detect angle:110 Degree
- Detect distance:7 meters
- Size:28mm×36mm (1.1 in x 1.4 in)
- Weight:25g

DOCUMENTS

- [Wiki \(Digital Infrared motion sensor\)](#)

SHIPPING LIST

- Digital infrared Motion Sensor x1
- [Digital Sensor Cable](#) (SKU:FIT0011) x1

PROJECTS

Project 1. [DFRobot AutoEco System](#) takes care of your garden.

By following this project it will help to grow a vegetable garden, and automate some other processes in our house along the way.

List of basic hardware to setup an AutoEco Sys:

1. [Romeo](#)
2. [X-Board](#)
3. [Light Sensor](#)
4. [Gas Sensor](#)
5. [Motion Sensor](#)
6. [Tempreture&Humidity Sensor](#)
7. [Waterproof temperature sensor](#)

Project 2. [How to Make an Automatic Christmas Tree](#)

With all the lights and decorations that people use at Christmas, power is left on all the time and electricity bills skyrocket. I made this motion detecting Christmas tree light setup that only turns on when people are nearby.

Hardware list:

[PIR Sensor](#) x1

[Bluno](#) x1

[I/O Expansion Shield v7.1](#) x1

Downloaded from [Arrow.com](#).

Relay Switch x1
Mini mp3 module
DFSpeaker v1.0
Regular power extension lead (with some modifications)
1k resistors x2

REVIEW

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Naman Chauhan · 6 months ago
can it work with raspberry pi 3?
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DFRobot Support Mod → Naman Chauhan · 6 months ago
Yes, since it just send digital signal, it works with RPi
Reply · Share

Jacopo · 3 years ago
can you post the datasheet?(i need it for a exam)
Reply · Share

ALSO ON DFRobot

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5 comments · 3 months ago

Tiobel — Yes, but the Wifi.h library that I'm using is not supported in the ESP8266. You will need to replace it for ESP8266WiFi.h. Check some of the examples in the Arduino ...

Gravity: Digital Peristaltic Pump (PPM Servo Control) - DFRobot

11 comments · 3 months ago

夏青 — Do you have some problem on Calibration?

Gravity: Analog TDS Sensor/Meter for Arduino

41 comments · 6 months ago

Guillaume — Could you send dimensions details about the TDS probe ?

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2 comments · 5 months ago

DFRobot Support — In the open area, the distance could be 3~5 Km.

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