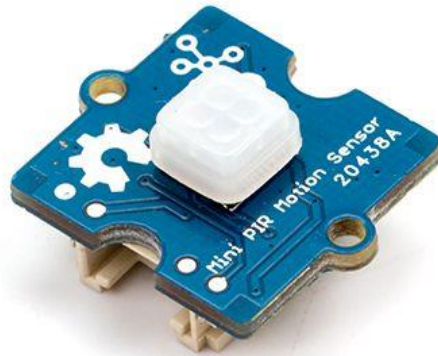


Grove - mini PIR motion sensor – 101020353



PIR sensor is used for making motion detecting applications such as alarm burglar systems, visitor presence monitoring, light switches and robots.

PRODUCT DETAILS

PIR(Passive Infrared Sensor) sensor is used for making motion detecting applications such as alarm burglar systems, visitor presence monitoring, light switches and robots. The Grove – mini PIR motion sensor is a compact, low power consumption and cost effective PIR sensor which is suitable for applications with relatively less detection distance requirement.

The detection distance in the datasheet is up to 3m to 5m, however 2m is the best detection distance that we recommend and 25°C is the most suitable temperature.

The sensitivity of the sensor is adjustable, there is reserved pin out on the back of the board so that you can solder a slide rheostat to adjust the sensitivity. If you think the sensitivity is not enough, here is a trick, drag the plastic cap a little up will help enhance the sensitivity.

The [PIR Motion Sensor Series](#) includes several products that will meet your different needs:

Product	Measuring range (theoretical value)	Features
Grove - PIR Motion Sensor	Max Distance:3-6m(3m by default) Angle:< 120°	Measuring distance and holding time adjustable response speed:0.3s - 25s
Grove-Adjustable PIR Motion Sensor	Max Distance:3-6m Angle:X=110° Y=90°	Measuring distance and holding time adjustable
Grove - mini PIR motion sensor	Max Distance:2-5m(2m by default) Angle:X=110° Y=90°	Sensitivity adjustable Mini-size
PIR Motion sensor module	Max Distance:3-7m Angle:< 120°	Sensitivity & Delay time adjustable
Grove - Digital PIR Motion Sensor	Max Distance: 3-12m Angle:< 100°	Mini-size Simple and intuitive

Want to know more about how the PIR sensor works with Arduino and Raspberry pi, please click [here](#) to view the blog. If you need tutorials for operating the sensor, please click [here](#) to view the wiki.

Note:

Please note that the orientation can influence the sensitivity, for more accurate detection, please place the sensor as the picture below.

Features

- Low power consumption
- Sensitivity adjustable
- Grove interface

Applications

- Motion Sensor
- Motion Detector
- Security Alarm System
- Human Detection System

Note

Grove - mini PIR motion sensor will work with the same library as Grove - PIR Motion Sensor. So, please refer to the wiki page of Grove - PIR Motion Sensor and download the library from there to get started with this sensor.

Technical details

Dimensions	20mm x20mm x12mm
Weight	G.W 8g
Battery	Exclude
Sensor chip	S16-L221D
Supply Voltage	3.3 – 5V
Working Current	12 – 20 μ A
Sensitivity	120 – 530 μ V
Max detecting range	2m(25°C)

Part List

Grove - mini PIR motion sensor	1
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