

PRODUCT DATASHEET



PIR Movement Sensor Board

333083

The PIR Movement Sensor Board detects motion within 5 meters and a 100-degree angle, ideal for security and automation projects.

Full product documentation, files and tutorials: solde.red/333083

CORE ATTRIBUTES

SKU **333083**

WEIGHT **8 g**

BARCODE **732388669608**

DESCRIPTION

A **PIR (passive infrared) motion sensor** is a device that detects physical movement within its field of vision by sensing changes in infrared radiation. This sensor works on the principle of detecting **thermal signals emitted by objects**, mainly warm-blooded creatures like humans. The "passive" in the name refers to the fact that the sensor itself does not emit or radiate any energy for detection.

Easily connects to Dasduino/Arduino via digital pin. When it detects movement, it sets the output digital pin to **HIGH**. The angle that the sensor "sees" is **100 degrees** and reaches up to **5 meters**. It has a potentiometer for delay (how often to check for movement).

It is often used in a variety of applications, including home security systems, automatic lighting, and energy management, among others.

TECHNICAL DETAILS

- **Voltage:** 2.7-12V
- **Delay:** 2s
- **Sensing range:** angle up to 100 degrees, 3-5 meters
- **Dimensions:** 38 × 22 mm / 1.5 × 0.9 inch

SPECIFICATIONS

INTERFACE	Digital Gpio
QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
MEASUREMENT TYPES	Motion

MEASUREMENT RANGE	3 to 5 m, detection angle up to 100 degrees
IC PART NUMBER	AM312
SUPPLY VOLTAGE MIN V	2.7
SUPPLY VOLTAGE MAX V	12

LINKS

Full Documentation	https://docs.soldered.com/pir-sensor/overview/
Arduino: Get Started	https://docs.soldered.com/pir-sensor/arduino/getting-started/
Hardware Details	https://docs.soldered.com/pir-sensor/hardware/
Arduino Library Documentation	https://docs.soldered.com/pir-sensor/arduino/detecting-movement-standard/
MicroPython Module	https://github.com/SolderedElectronics/Soldered-MicroPython-Modules/tree/main/Sensors/PirSensor
Pinout	https://docs.soldered.com/assets/images/pir-sensor-native-5812154e7bd990a7e511cc583d96b60c.png

GALLERY

