





PIR Motion sensor module

SKU 113990020



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Description

This is a PIR motion sensor. Highly integrated module popularly used for entry detection, it complies with microcontroller or DC loads.

Applications

- Switch
- Motion sensor
- Thief-guarding system
- Industrial automation

Specifications

- Input voltage: DC 4.5~20V
- Static current: 50uA
- Output signal: 0,3V (Output high when motion detected)
- Sentry angle: 110 degree
- Sentry distance: max 7 m
- Shunt for setting override trigger: H - Yes, L - No

Technical Details

- | | |
|------------|--------------------|
| Dimensions | 80mm x 50mm x 27mm |
| Weight | G.W 9g |
| Battery | Exclude |

Part List

PIR Motion sensor module1

ECCN/HTS

ECCN Not Available

HSCODE9031900090
Downloaded from Arrow.com

Questions and Answers

Have a question about this? Ask people who

0
does this sensor work with a led light that is (60Wat) and 220V electricity?
itiscrazy on Jun 09,2017 Reply upvote (0)

Not without support circuitry. This is JUST the PIR sensor. It's not a Motion Detecting Mains Power Switch (though, it could be used as a component in such a device).

Steve Lawson on Sep 16,2017 22:25 PM Reply upvote (0)

0
How do you connect this with the Seeed Grove System?
info on Dec 05,2016 Reply upvote (0)

You need a cable just like: [https://www.seeedstudio.com/Grove-4-pin-Female-Jumper-to-Grove-4-pin-Conversion-Cable-\(5-PCs-per-PAck\)-p-1020.html](https://www.seeedstudio.com/Grove-4-pin-Female-Jumper-to-Grove-4-pin-Conversion-Cable-(5-PCs-per-PAck)-p-1020.html) Thanks.

Seeed Techsupport Team on Feb 01,2018 15:25 PM Reply upvote (0)

0 This sensor gives a digital signal or analog in output?? It gives HIGH and LOW or another type of signal??Thanks
alessandropolla.95 on Oct 19,2016 Reply upvote (0)

Hi,you will get a TTL HIGH(or LOW)level from output.

Jacket Chen on Oct 20,2016 10:44 AM Reply upvote (0)

@Jacket Chen please be careful. The output level is 3.3V only, NOT 5V

Rolf Walsch on Jun 25,2017 17:36 PM Reply upvote (0)

1 I used a simple 555 timer circuit and an LM7805 along with a relay and a 12VDC wallwart to build a automatic closet light...super simple to use.
rob51860 on Oct 19,2016 Reply upvote (1)

Yes, it is compatible with each other.

Yuri Qiu on Oct 20,2016 10:41 AM Reply upvote (0)

Tell us how ;)

Steve Lawson on Sep 16,2017 22:26 PM Reply upvote (0)

1
Garrett's right, the sensors are very quick to setup and easy use. They can detect large movements at around 20 feet. And I haven't found PIR modules for cheaper.

matt.ball.2 on Oct 19,2016 Reply upvote (1)

Decades ago I worked for an outdoor security electronics company as a troubleshooter. This company was bold enough (or stupid enough) to attempt to use this kind of sensor outside (not this particular one, but similar) and the people installing them had little understanding of how they worked, or what would set them off. It was my job to go out (often in the middle of the night) and determine what was causing one or more of these sensors to generate alarm after alarm. This was in Southern California (USA) which has a desert climate. One night, I was sitting under one of these sensors, installed on an Automobile Sales lot. It was strange, because the sensor was pointing at a wall, not more than 30 feet away, so it should have been fine. So, I sat and watched. Soon I noticed that the internal relay would click whenever a warm Summer breeze wafted over the asphalt. In another case, at another car lot, out in Corona, CA of all places, the sensor was pointing out beyond the property, and as I sat near it, I could hear the relay click every once and awhile, but there was no apparent reason--there were breezes, but none seemed to coincide with sensor's reaction, so I kept watching. Then finally I noticed that whenever a large truck white truck would pass on the 10 freeway, the relay would click. The freeway was more than a mile away!

Steve Lawson on Sep 16,2017 22:47 PM Reply upvote (0)

0 Will this sensor work with Tessel
saurabhsharma82 on Jul 17,2017 Reply upvote (0)

1
Very easy to hook up, and extremely sensitive from all directions. I would say almost 130 degree detection. These also drain very little current, you could run one for a couple years on some AA batteries.
garrett on Oct 19,2016 Reply upvote (1)

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