

PIR motion sensor

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The **iTriangle - PIR motion sensor** is used for making motion detecting applications such as alarm burglar systems, visitor presence monitoring, light switches and robots. This motion sensor is a compact, low power consumption and cost effective PIR sensor suitable for applications with relatively small detection distance requirements.

The detection distance in the datasheet is 3-5 m, though we recommend 2m as the best detection distance and 25 °C as the most suitable temperature during use.

The sensitivity of the sensor is adjustable. A reserved pin out on the back of the board allows you to solder a slide rheostat to adjust the sensitivity. If you think the sensor is not sensitive enough, raising the plastic cap slightly will help enhance its sensitivity.

Please note that the sensor's orientation can influence its sensitivity. For more accurate detection, please place the sensor as in the picture below.

Features

- Low power consumption
- Adjustable sensitivity
- Grove interface

Specifications

Dimensions	20 x 20 x 12 mm
Weight	G.W 8g
Battery	Not included
Sensor chip	S16-L221D
Supply Voltage	2.7-3.3 V
Working Current	12-20 μ A
Sensitivity	120-530 μ V

Max. detection range

2 m (@25 °C)

Revision #5

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