



packetSENSE PIR Motion Sensor

The **packetSENSE PIR Motion Sensor** is a highly advanced and reliable device that utilizes passive infrared technology to detect motion or occupancy.

It detects any movement within its range and promptly sends a status update via the LoRaWAN® network, ensuring consistent awareness of the changes in the environment. In addition to its core motion detection capabilities, this device supports door and window status detection and temperature and humidity monitoring.

These additional features make the **packetSENSE PIR Motion Sensor** an ideal choice for use in numerous settings, including offices, homes, and industrial buildings.

Features

- LoRaWAN® compatible
- Endurance of up to 5 years
- Flexible mountings
- Wide Temperature Range
- Extreme Battery Life

Applications

- Smart Office
- Smart Lighting
- Intrusion Alarm
- Intelligent Factory
- Occupancy Detection
- Environmental Monitoring
- On-Site Presence Monitoring
- Door/Window Status Detection

Technical Specification

LoRa

Frequency	EU868/AS923-1/AS923-3
Tx Power	Max. 21dBm
Sensitivity	-137dBm @ SF12 300bps
LoRa Communication Distance	Up to 7 km (in urban open space)

Bluetooth

Bluetooth® (BLE)	4.0
Tx Power	Max. 4dBm
BLE Communication Distance	Up to 50m in free space

PIR Performance

PIR Detection Range	Max. 8m
PIR Detection Angle	Horizontal 120°, vertical 60°

Temperature and Humidity

Temperature Measure Accuracy	±0.3(0-60);
	±0.5(-20-0);
	±1(-30- -20)
Humidity Measure Accuracy	±3% RH (10% RH - 90% RH);
	±4.5% RH - ±3% RH (0% RH - 10% RH);
	±3% RH - ±3.8% RH (90% RH - 95% RH)

Application

Operating Temperature	-30 °C – 60 °C
Operating Humidity	0% – 95%
Installation Ways	Double-sided tape/Screws

Door/Window Detection Performance

Recommended Installation Gap	< 10mm
Detection distance	20mm

Physical Specification

Dimension	70mm x 50mm x 38mm
Shell Material	ABS+PC
Color	White

Power

Power Supply	2' AA ER14505 5200mAh Replaceable battery
Operating Current	< 120mA

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