

packetSENSE

PIR Sensor

The **packetSENSE PIR Motion** Device is an interrupt-based, low-powered device that responds to changes in infrared light radiated by objects within its field of view.

It is commonly used to detect motion or movement. Data, which include the device status as well as its battery status, are automatically sent via LoRAWAN®. This device also offers an option of sending the same data through a set interval aside from its interrupt-driven telemetry.

Furthermore, users can get alerts if motion is detected via SMS or e-mail from a third-party platform such as packetVIEW.



Features

- Interrupt-based motion detection
- Optional periodic status update
- Long battery life
- LoRaWAN® compatible
- Optimized as IOT end-node

Applications

- Security Systems
- Automatic Lighting Systems

Technical Specification

LoRa

Device	S76S
Integrated MCU	STM32L073xZ
Integrated RF IC	SX1276
Frequency	868Mhz
Antenna	Internal
Range	Up to 15k
RF Power	+25dBm

PIR Sensor Options

EKMB1303113K

Type	12m Long Distance
Detection Distance	7m Typical Installation Height
FOV	108° x 99°
Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +70°C
Current Consumption in Standby Mode	6uA

EKMB1304113K

Type	Wall Installation Type
Detection Distance	up to 12m (1st step lens) up to 6m (2nd step lens) up to 3m (3rd step lens)
FOV	56° x 112°
Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +70°C
Current Consumption in Standby Mode	6uA

EKMB1305113K

Type	Horizontally Wide Type
Detection Distance	up to 5m
FOV	Area A: 122° x 35° Area B: 150° x 20°
Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +70°C
Current Consumption in Standby Mode	6uA

Electrical

Power Source	Battery
Battery Voltage	3.6V
Battery Type	ER18505 Lithium-Thionyl Chloride A-type
Battery Capacity	4 Ah
Battery Discharge Voltage	2.0 V
Idle-mode Current ^[1]	12uA
Operating Current ^[1]	20mA

Physical

Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +70°C
Protection grade	IP54
Dimension	LoRa Device: 90 x 83 x 34mm / 80 x 80 x 27mm
Setup	Can be: Adhesive, Wall-mounted

packetworx
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[1] Values are not final and based on a combination of datasheets and previously acquired data. May be subject to change.