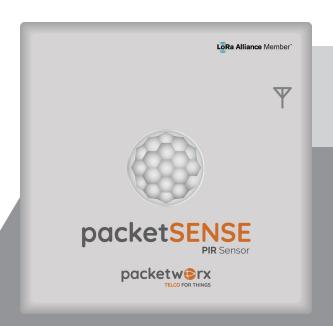


packetSENSE

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	6uA
Standby Mode	

LKMD1304113K	
Туре	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° × 112°
Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +70°C
Current Consumption in	6uA
Standby Mode	

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	6uA
Standby Mode	

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

Phys

ysical				
	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		

packetwerx **TELCO FOR THINGS**

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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.