

PIR & Light Sensor

Featuring LoRaWAN®

WS202

Milesight



Milesight WS202 is a LoRa PIR sensor based on passive infrared technology to detect a motion or occupancy. WS202 can detect whether there is movement within the range of 6-8 m and send the changes via LoRaWAN® network. Besides, WS202 equips with light sensor which can link PIR detection results to trigger scenes. With compact size and powered battery, WS202 is easy to install everywhere. Compliant with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, users can know the alarms or occupancy of rooms and trigger other sensors or appliances easily via webpage or mobile App remotely.

WS202 can be widely used in smart homes, smart offices, schools, warehouses, etc.

◆ Features

- Occupancy or motion detection based on passive infrared and Fresnel Lens
- Easily to install with the convenient size
- Built-in light sensor, combine PIR sensor to achieve triggers
- Ultra-wide-distance wireless transmission up to line of sight of 15 km
- Equipped with NFC for one touch configuration, support card emulation mode
- Support Milesight LoRa D2D protocol to enable ultra-low latency and directly control without gateway

- Function well with standard LoRaWAN® gateways and network servers
- Compliant with Milesight IoT Cloud

◆ Specifications

Wireless Transmission

Technology	LoRaWAN®, LoRa D2D
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137 dBm @300bps
Mode	OTAA/ABP Class A

Measurement

PIR

Detection Area	120 ° Horizontal, 100 ° Vertical
Detection Distance	Maximum 8 m

Light

Status	Bright/Dark (Determine 1-60000 lux as Bright or Dark according to custom threshold)
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Software

Configuration	NFC
Advanced Feature	LoRa D2D Controller

Physical Characteristics

Power Supply	1 × 1650 mAh ER14335 Li-SOCl ₂ battery
Battery Life*	Around 4 years (30 min interval + 30 triggers per day)
Operating Temperature	-30°C to +60°C
Relative Humidity	≤90% (non-condensing)
Ingress Protection	IP30
Dimension	50 × 50 × 23.8 mm (1.97 × 1.97 × 0.94 in)
Material	Anti-flaming Polycarbonate
Color	White
Installation	On the flat surfaces with screws or 3M tapes

* Tested under laboratory conditions and for guideline purposes only.