PIR & Light Sensor

Featuring LoRaWAN®

WS202





Milesight WS202 is a LoRaWAN® 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 Development Platform, users can know the alarms or occupancy of rooms and trigger other sensors or appliances 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 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 and Milesight Development Platform

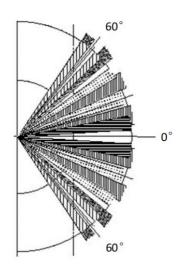
♦ Specifications

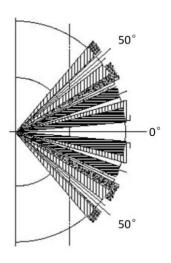
| Wireless Transmissio | n |
|-------------------------|---|
| Technology | LoRaWAN [®] , Milesight D2D |
| Antenna | Internal Antenna |
| Frequency | CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923 |
| Tx Power | 16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz) |
| | |
| Sensitivity | -137 dBm @300bps |
| Mode | OTAA/ABP Class A |
| Measurement | |
| PIR | 400011 1 1 400011 1 |
| 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) |
| Others | |
| LED Indicator | 1 × Status Indicator |
| Button | 1 × Reset Button (Internal) |
| Software | |
| Configuration | Mobile App via NFC |
| Advanced Feature | Milesight D2D Controller, Threshold Alarm |
| Physical Characteristi | ics |
| Power Supply | 1 × 1650 mAh ER14335 Li-SOCl ₂ Battery |
| Battery Life* | Around 4.2 years (SF7, EU868) |
| | Around 2.4 years (SF10, EU868) |
| (30 min interval + 30 | Around 3.9 years (SF7, US915) |
| triggers per day, 25°C) | Around 2 years (SF10, US915) |
| Battery Life* | Around 4 years (30 min interval + 30 triggers per day) |
| Operating Temperature | -20°C ~ 60°C |
| Relative Humidity | 0% ~ 90% (non-condensing) |
| Ingress Protection | IP30 |
| | Anti flancina Daluanhanata |
| Material | Anti-flaming Polycarbonate |

| Dimension | 50 × 50 × 23.8 mm (1.97 × 1.97 × 0.94 in) Lens: Φ 17.2mm (0.68 in) |
|--------------|---|
| Weight | 40g (Battery Included) |
| Installation | On the flat surfaces with screws or 3M tapes |
| Approvals | |
| Regulatory | CE, FCC, RoHS, LoRaWAN® Certified |
| Safety | EN62368-1 |

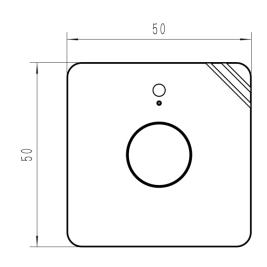
^{*} Tested under laboratory conditions and for guideline purposes only.

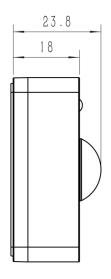
PIR Area





Dimensions (mm)





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