

WS202



Motion and Light sensor

Detecting occupancy and light status

WS202 is a wireless LoRa sensor measuring:

- **Motion/Occupancy based on passive infrared technology (PIR).**
- **Light status (Bright/Dark) based on customizable threshold setting.**

WS202 can detect movement within a range of 6-8 m.

WS202 is applied in smart homes, smart offices, schools, warehouses, shops, etc.



WS202 is equipped with NFC for Android mobile app configuration.

WS202 is compliant with standard LoRaWAN® gateways and network servers.

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Wireless transmission

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

Motion (PIR)

Detection area	120 ° Horizontal, 100 ° Vertical
Detection distance	Maximum 8m

Light

Status	Bright/Dark (Determine 1-60000 lux as Bright or Dark according to custom threshold setting)
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Gateway UG65



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Physical characteristics

Power supply	1 × 1650 mAh ER14335 Li-SOCl2 battery
Battery life	4 years (30 triggers per day + 30 min interval, EU868-SF7) 3.5 years (30 triggers per day +30 min interval, EU868-SF10)
Operating temp	-30°C to +60°C
Relative humidity	0% to 90% non-condensing
Ingress protection	IP30
Dimension	50 × 50 × 23.8 mm (1.97 × 1.97 × 0.94 in)
Installation	On the flat surfaces with screws or 3M tapes
Material	White anti-flaming polycarbonate

