



Magnetic Contact Switch Featuring LoRAWAN® WS301



Milesight WS301

simply enables you to know when someone enters the office/building through door/window or something has been moved. The minimal magnet is placed inside the portable part, while the sensor is inside the fixed part that can be attached on door/window or other objects. With a style of minimalism and compact size, the wire-free WS301 can be easily mounted on the doors, panes, or cabinets, greatly providing real applications for smart homes, smart office or smart factories.

With LoRa technology, one of the most low power consumption technologies, Milesight WS301 can work up to almost 2 years without bothering to replace battery. Compliant with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, WS301 will surely monitor the real-time open/close status and receive alarms via mobile App.

FEATURES

- ✔ Suitable for various doors/windows of different materials
- ✔ Support mounting tamper detection
- ✔ LED for network status, open/close status, tamper and low battery indication
- ✔ Ultra-wide-distance transmission up to line of sight of 15 km
- ✔ Built-in 1200 mAh replaceable battery can work continuously for 5 years
- ✔ Equipped with NFC for one touch configuration
- ✔ 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

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|-------------|--|
| 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 and Interface

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|--------------------|---|
| Detection Distance | 10-15 mm |
| Button | 1 × Reset Button (Internal), 1 × Tampering Button |
| LED Indicator | 1 |

Software

| | |
|------------------|----------------------------------|
| Configuration | NFC Configuration via Mobile App |
| Alarms | Open/Close Status, Tamper |
| Advanced Feature | LoRa D2D Controller |

Physical Characteristics

| | |
|-----------------------|--|
| Power Supply | 1 × 1200 mAh ER14250 Li-SOCl ₂ Battery |
| Battery Life* | Over 5 years (1080 min interval + 30 triggers per day) |
| Operating Temperature | -20°C to +60°C |
| Relative Humidity | ≤90% (non-condensing) |
| Ingress Protection | IP20 |
| Dimension | Sensor: 50.5 × 31 × 18.5 mm (1.99 × 1.22 × 0.73 in) Magnet: 30 × 13.5 × 10 mm (1.18 × 0.53 × 0.39 in) |
| Installation | On the flat surfaces with screws or 3M tapes |

* Tested under laboratory conditions and for guideline purposes only.