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	
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	
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.