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 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 Development Platform, WS301 will surely monitor the real-time open/close status and receive alarms.

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.

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 more than 5 years
- > Equipped with NFC for one touch configuration
- 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

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Wireless Transmission	on.	
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		
Detection Distance	10-15 mm	
Others		
Button	1 × Reset Button (Internal), 1 × Tampering Button	
LED Indicator	1 × Status/Alarm Indicator	
Software		
Configuration	NFC Configuration via Mobile App	
Advanced Feature	Milesight D2D Controller, Tamper Alarm, Open/Close Status Alarm	
Physical Characterist	ics	
Power Supply	1 × 1200 mAh ER14250 Li-SOCl ₂ Battery	
Battery Life* (1080 min interval + 30 triggers per day, 25°C)	Around 6.8 Years (SF7, EU868)	
	Around 4.2 Years (SF10, EU868)	
	Around 6.8 Years (SF7, US915)	
	Around 3.5 Years (SF10, US915)	
Operating Temperature	-20°C to +60°C	
Relative Humidity	≤90% (non-condensing)	
Ingress Protection	IP20	
Color	White	
Weight	Sensor: 27.9g (Battery Included)	
	Magnet: 4.1g	
Dimension	Sensor: 50.5 × 31 × 18.5 mm (1.99 × 1.22 × 0.73 in)	
	Magnet: $30 \times 13.5 \times 10 \text{ mm} (1.18 \times 0.53 \times 0.39 \text{ in})$	
Installation	On the flat surfaces with screws or 3M tapes	
Approvals		

Regulatory	CE, FCC, Telec, LoRaWAN® Certified, ISED	
Environmental	RoHS	

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

◆ Dimensions(mm)













