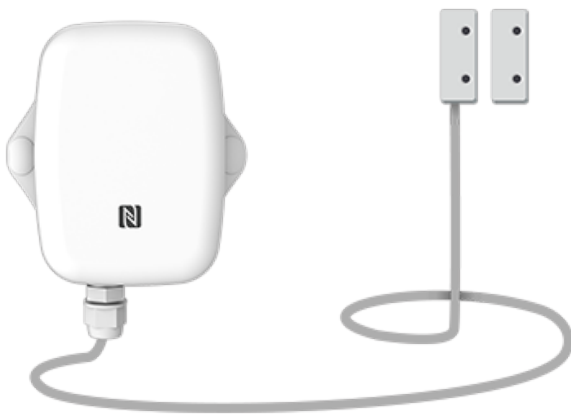# MOBICOM⚡PRO

Magnet Switch Sensor

MPC5120-SN

MPC5120-SN is a compact magnet switch sensor for detecting open/close status of objects (such as doors or windows) and transmitting alarm using wireless technology. With this low power consumption technology, MPC5120-SN can work up to 5 years with 4000 mAh battery. Combining with MobiCom Pro gateway and IoT Cloud solution, users can manage all sensor data and remotely and visually and receive alarms via mobile App.

MPC5120-SN also integrates temperature and humidity sensors, which has a great use for applications such as home and office automation, factories monitoring, etc.

◆ Features

➢ High sensitivity with door and window security detection

➢ Embedded with temperature and humidity sensors for environment monitoring

➢ Ultra-wide-distance transmission up to line of sight of 10km

➢ IP67 UV-resistant and waterproof enclosure for harsh environment applications

➢ Built-in 4000 mAh replaceable battery and works for more than 5 years without replacement

➢ Store locally 2, 800 historical records and support retransmission to prevent data loss

➢ Support MobiCom Pro D2D protocol to enable ultra-low latency and direct control without gateways

➢ Equipped with NFC for easily configuration

➢ Compliant with standard MobiCom Pro gateways and network servers

➢ Quick and easy management with MobiCom Pro IoT Cloud solution

◆ Specifications

Wireless Transmission	
Technology	Wireless, MobiCom Pro D2D
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16dBm(868 MHz)/20dBm(915 MHz)/19dBm(470 MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Door Magnet	
Detection Distance	20-30 mm
Cable Length	1.5 m
Temperature	
Range	-30°C to + 70°C
Accuracy	0°C to + 70°C (+/- 0.3°C), -30°C to 0°C (+/- 0.6°C)
Resolution	0.1°C
Humidity	
Range	0% to 100% RH
Accuracy	10% to 90% RH (+/- 3%), below 10% and above 90% RH (+/- 5%)
Resolution	0.5% RH
Operation	
Power On & Off	NFC, Power Button (Internal)
Configuration	NFC Configuration via Mobile App
Advanced Feature	MobiCom Pro D2D Controller, Data Storage, Data Retransmission
Physical Characteristics	
Power Supply	1 × 4000 mAh ER18505 Li-SOCL$_2$ Battery (extendable to 2 batteries)
Battery Life*	10 years (10 min interval + 48 triggers per day)
Operating Temperature	-30°C to +70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67
Dimension	Transceiver: 105.6 × 85.3 × 27 mm (4.16 × 3.36 × 1.06 in)

	Magnet: 32 × 15 × 8 mm (1.25 × 0.59 × 0.31 in)
Installation	Wall Mounting
Approvals	
Regulatory	CE, FCC
Environmental	RoHS

* Tested under laboratory conditions and for guideline purposes only.

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