LINOVISION

IOT-S500MCS

MagnetSwitchSensor DataSheet





IOT-S500MCS is a compact magnet switch sensor for detecting open/close status of objects (such as doors or windows) and transmitting alarm using LoRaWAN® technology. With this low power consumption technology, IOT-S500MCS can work up to 5 years with 4000 mAh battery. Combining with Linovision LoRaWAN® gateway and Linovision IoT Cloud solution, users can manage all sensor data and remotely and visually and receive alarms via mobile APP.

IOT-S500MCS 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 5 years without replacement
- Equipped with NFC for easily configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Linovision IoT Cloud solution

◆Specifications

Vopedifications	
WirelessTransmission	
Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
TxPower	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-147dBm@300bps
Mode	OTAA/ABPClassA
Measurement	
DoorMagnet	
DetectionDistance	20-30mm
CableLength	260mm
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%to100%RH
Accuracy	10%to90%RH(+/-3%),below10%andabove90%RH(+/-5%)
Resolution	0.5%RH
Operation	
PowerOn&Off	NFC,powerbutton(Internal)
Configuration	MobileAPP(viaNFC)
PhysicalCharacteristics	
PowerSupply	1×4000mAhER18505Li-SOCL₂battery(extendableto2batteries)
BatteryLife*	>5 years (10 min interval and alarm once every day, SF10)
OperatingTemperature	-30°Cto+70°C
RelativeHumidity	0%to100%(non-condensing)
IngressProtection	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	WallMounting

 $^{{}^{\}star}\mathsf{Tested}\,\mathsf{under}\,\mathsf{laboratory}\,\mathsf{conditions}\,\mathsf{and}\,\mathsf{for}\,\mathsf{guideline}\,\mathsf{purposes}\,\mathsf{only}.$