

Dataprodukter utöver det vanliga

EM300-MCS

Magnet Switch Sensor



EM300-MCS 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, EM300-MCS can work up to 5 years with 4000 mAh battery. Combining with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, users can manage all sensor data and remotely and visually and receive alarms via mobile App.

EM300-MCS 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 Milesight IoT Cloud solution

Specifications

| Wireless Transmission | |
|--------------------------|--|
| Technology | LoRaWAN® |
| Frequency | CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923 |
| Tx Power | 16dBm(868)/20dBm(915)/19dBm(470) |
| Sensitivity | -137dBm @300bps |
| Mode | OTAA/ABP Class A |
| Measurement | |
| Door Magnet | |
| Detection Distance | 20-30mm |
| Cable Length | 1.5m |
| 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 | Mobile App(via NFC) or PC software (via USB Type-C) |
| Physical Characteristics | |
| Power Supply | 1×4000 mAh ER18505 Li-SOCL ₂ battery (extendable to 2 batteries) |
| Battery Life* | >5 years (10 min interval and alarm once every day, SF10) |
| 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 |

* Tested under laboratory conditions and for guideline purposes only.

