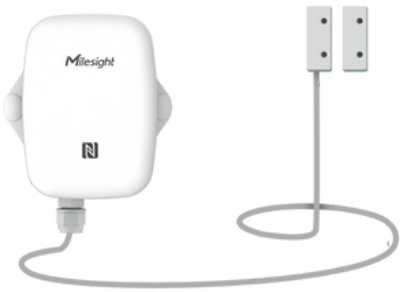
EM300-MCS Magnetic Contact Switch Sensor



APPLICATIONS

- HOME AUTOMATION
- OFFICE AUTOMATION
- FACTORIES MONITORING, ETC

FEATURES

HIGH SENSITIVITY
with door and window security detection

TEMPERATURE AND HUMIDITY SENSORS
for environment monitoring

IP67 UV-RESISTANT AND WATERPROOF
for harsh environment applications

BUILT-IN REPLACEABLE BATTERY
4000 mAh works for 5 years without replacement

ULTRA-WIDE-DISTANCE
wireless transmission

EQUIPPED WITH NFC
for easily configuration

COMPATIBLE WITH STANDARD
LoRaWAN gateways & network servers

MILESIGHT IOT CLOUD
compatibility

SPECIFICATIONS

Wireless Transmission

Technology	LoRaWAN ®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923

EM300-MCS Magnetic Contact Switch Sensor

Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
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

Physical & Characteristics

Power Supply	1 × 4000 mAh ER18505 Li-SOCL2 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

* Tested under laboratory conditions and for guideline purposes only

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