EM310-Tilt Magnetic Contact Switch Sensor

APPLICATIONS

- **TREE MONITORING**
- **POLE LEAN DETECTION**
- **LANDSLIDE MONITORING, ETC**

FEATURES

BUILT-IN MEMS ACCELEROMETER SENSOR
to measure the 3-axis angles of any objects

FLEXIBLE THRESHOLD CONDITION SETT.
suitable for different kinds of applications

IP67 WATERPROOF ENCLOSURE
for outdoor applications and easy to clean

EASY TO INSTALL
suitable for various types of objects as trees, poles, grounds, etc.

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/AS923-1&2&3&4

EM310-Tilt Magnetic Contact Switch Sensor

Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	137 dBm @300bps
Mode	OTAA/ABP Class A

Measurement

Axis	X, Y, Z
Range	- 90° ~ +90°
Accuracy	± 1°
Resolution	0.01°

Others

Configuration	NFC Configuration via Mobile App
Button	1 × Reset Button (Internal)

Physical & Characteristics

Power Supply	2 × 3500 mAh ER17505 Li-SOCl2 Batteries
Battery Life	Over 5 years (6 triggers per hour)
Operating Temperature	-20°C to +60°C
Relative Humidity	≤95% (non-condensing)
Ingress Protection	IP67
Dimension	111 × 62 × 33 mm (4.37 × 2.44 × 1.30 in)
Material & Color	ABS, Black
Installation	On the flat surfaces with screws

* Tested under laboratory conditions and for guideline purposes only

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