

MerryIoT Motion Detection

Doc ver.: BQW_03_0036.006



Features

- Compliance to LoRaWAN1.0.3
- Dual Passive Infrared detectors and Fresnel Lens
- IP40 equivalent
- Battery-powered (2 standard AA alkaline batteries)
- Built-in alarm buzzer with sound pressure level 80 dB(min)
- Be notified of possible abnormal movement
- Support both desk and room occupancy
- Power on-and-play installation
- Support coverage test by pressing test button

The **MerryIoT Motion Detection** utilized with LoRaWAN 1.0.3 connectivity, allows to sense and measure movement. Applications such as homes or buildings security, facility management systems, occupancy of the desks, conference rooms, bathrooms, etc.

Specification

Model Name	MS10
Frequency	EU 868 MHz US 902~928 MHz
Antenna Gain	-2dBi Peak
RF Sensitivity	-135dBm
Battery Type	1.5 V AA Alkaline x 2 pcs, 5400 mAh (75ΩCont. discharge)
Battery Lifetime*	About 3 years. *Note: Battery life is mainly determined by the reporting frequency. Other factors include moisture and high temperature.
Average Current	135 mA maximum / 100 uA minimum
Protocol	LoRaWAN 1.0.3
Operation Temperature	0 to 50°C
Environmental Rating	IP40 equivalent
Dimensions	70 mm x 25 mm x 70 mm
Weight	91 g
Sensor	<ul style="list-style-type: none">• Dual Passive Infrared detector with Fresnel Lens<ul style="list-style-type: none">• Detection angle: 123°H x 93°V• Detection range: 7 meters• Temperature sensor:<ul style="list-style-type: none">• Accuracy: ± (1°C)• Humidity sensor:<ul style="list-style-type: none">• Accuracy: ± 5 %• Three-axis linear accelerometer
Type Approval	CE/FCC/IC approved.

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SKU Detail		
SKU	Country	Frequency Band (MHz)
MS10-915	USA	US915 (902~928)
MS10-868	Europe	EU868 (862~870)