Bluetooth 2.4 GHz Motion Detector with Illumination Sensor

ILLUMRA™
SELF-POWERED WIRELESS CONTROLS

BTM-MDS reports motion detection and illumination measurements wirelessly using the Bluetooth radio standard and therefore does not require any wiring.

Key parameters of BTM-MDS can be configured using a mobile phone and the integrated NFC (ISO 14443) interface. Additionally, it has a simple configuration interface consisting of one button, one switch and one LED allowing for configuration without additional tools.

BTM-MDS transmits the measured light level and the status of the motion detection sensor on a periodic basis. The motion sensor of the BTM-MDS is permanently active so that motion will be reported immediately.

BTM-MDS supports secure communication with AES-128 encryption and authentication based on a random, device-unique private key.

Wireless Motion and Light sensor shares data through 2.4GHz to gateways and access points for integration with IOT devices.

Key applications include lighting control based on presence and ambient light level as well as space utilization and occupancy monitoring

Self Powered sensor uses a photocell to collect and store energy from ambient indoor light for operation in complete darkness for up to 4 days. An option battery may be installed for operation in rooms that may be dark for longer than 4 days at a time.

SPECIFICATIONS

Part Number	BTM-MDS
Power Supply	Indoor light energy harvesting; Optional supplemental battery (CR2032) or 2-wire connector for external power or remote solar cell (3-5VDC)
Motion Detection Range	typ.16.5 ft (5 m) when installed 8.5 ft (2.5 m) high
Required Light Level	200 lux for 6 hours per day
Operating Time Without Light	96 Hours
Backup Battery Type	R2032 coin cell (optional)
Transmission Range	25-50 feet (typical)
Frequency	2.4GHz Bluetooth
Dimensions	4.46” L x 2.58” W x 1.21” H (113,2 mm L x 65,5 mm W x 30,7 mm H)

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