



# Bluetooth 2.4 GHz Motion Detector with Illumination Sensor

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
<b>Power Supply</b>	Indoor light energy harvesting; Optional supplemental battery (CR2032) or 2-wire connector for external power or remote solar cell (3-5VDC)
<b>Motion Detection Range</b>	typ.16.5 ft (5 m) when installed 8.5 ft (2.5 m) high
<b>Required Light Level</b>	200 lux for 6 hours per day
<b>Operating Time Without Light</b>	96 Hours
<b>Backup Battery Type</b>	R2032 coin cell (optional)
<b>Transmission Range</b>	25-50 feet (typical)
<b>Frequency</b>	2.4GHz Bluetooth
<b>Dimensions</b>	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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