Product sheet

Motion Sensor High Bay

Making buildings smart

Description

The Motion Sensor High Bay is a wireless long range PIR motion sensor with a battery and can easily be mounted on any ceiling or wall.

The Motion Sensor High Bay enables control (switch/dim) of a group of lighting fixtures equipped with a Mymesh wireless light controller based on motion.

Technical summary

The PIR motion detector senses the motion of persons within its detection area. The PIR sensor reacts to temperature differences between the ambient temperature and the moving person or object.

10-year battery life depending on use and location. The Motion Sensor High Bay is fitted with an internal antenna.

Mymesh is a fully mesh wireless network protocol in which the applied Mymesh components communicate with each other and automatically organise themselves into a fully integrated wireless sensor- and control network, resulting in a robust and scalable smart control system that inherently is the foundation for a smart building network.

Easy Installation & commissioning

- Simple installation, no cables at all.
- On-the-fly (re)commissioning with the Mymesh BLE Gateway and Mymesh Commissioning app available in the Apple App store for iPad.

- The detection range of the sensor can be optimized by using the additional mounting bracket 45˚.

Network features

- Wireless, stand-alone network that is self-organizing and self-healing
- 2.4GHz communication for reliable data transfer
- Secure by design
- Ultra scalable to > 10,000 devices in one network
- Updates and new functionality can be installed with Over-The-Air updates.
- Cloud interface (API) available to connect with Building Automation Systems, dashboards, user apps and more.

Optional

- Connect to the Mymesh Management System for remote control, monitoring and management applications
- Connect to the Building Automation System for seamless integration with the buildings technical installations
- Connect to third party dashboards and apps

This product sheet is subject to change without notice.

Device Information

Connections

Power Supply	Non replaceable and rechargeable battery
Battery Life	10 years, depending on use and location

Protection degree

Motion sensor high bay	IP54

Mounting

Surface Mounting	No wiring

Motion detection

Type	Passive infrared (PIR) with domed multilens
Range	horizontal 360˚ , vertical 69

Radio

Band	2.4GHz ISM band

Order Information

Motion sensor high bay	BLC.5005.002
Mounting bracket 45°	BLC.5510.001

Environment

Operating Temp.	-20˚ to + 45˚C
Relative Humidity	25% to 90%
Installation Height	Max. 2000m above sea level

Certification

ETSI EN 300 440

ETSI EN 301 489-01/03

IEC EN 60950-1:2006

RED / CE / UKCA

Housing

LxWxH	80mm x 80mm x 20mm
Weight	85 gram
Material	Plastic
Colour	RAL 9010 white

Notification

Notifications	Red LED for identification during commissioning

Sensor Information

Installation and sensor properties	
Specified detection distance (note 1)	Up to 12m – 14.5m
Typical ceiling installation height (note 2)	12m
Field of view	69˚ x 69˚
Detection zones	128

Note 1:
ΔT > 4˚C
Object speed : 1 m/s
Object size: 700 x 250 mm
Crossing 2 detection zones

Note 2:
The sensitivity of passieve infrared sensors in influenced by the enviromnemta conditions, so a performance evaluation is recommended

Typical applications
Warehouses, industrial buildings, entrance halls, retail shops

Detection area: X-Y Cross section at 12m