Product sheet

MultiSensor

Making buildings smart

Description

The MultiSensor is a wireless PIR motion sensor and light sensor with a battery and can easily be mounted on any ceiling or wall.

The MultiSensor enables control (switch/dim) of a group of lighting fixtures equipped with a Mymesh wireless light controller based on motion and/or illuminance for daylight harvesting.

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.

The ambient light sensor measures the actual lux level at the sensor head.

10-year battery life depending on use and location. The MultiSensor 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 Bluetooth Gateway and Mymesh Commissioning app available in the Apple App store for iPad.

- Manual calibration of the light sensor for indirect measurement to adapt to different installation situations
- 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	
MultiSensor	IP54

Mounting	
Surface mounting	No wiring

Motion detection	
Type	Passive infrared (PIR) with domed multilens
Range	horizontal 360˚ , vertical 90˚

Radio	
Band	2.4GHz ISM band

Order Information	
MultiSensor	BLC.5020.001
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 62368-1
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				
Situation	**Mounting scenario**	**Max. Instal. Height (H)**	**Max reach. Diameter (D)**	**Detection Range (R)**
Ceiling	Sitting at a workspace height of 80 cm	4.5 – 5m	7- 8m	
Ceiling	Walking below the detector	5-6m	8-10m	
Wall	Walking across the detector	n/a	n/a	10-12m
Wall	Walking towards the detector	n/a	n/a	4m
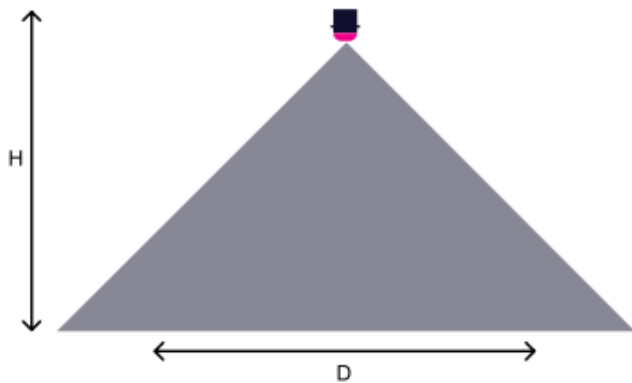
Picture 1: Ceiling mounting, vertical cone
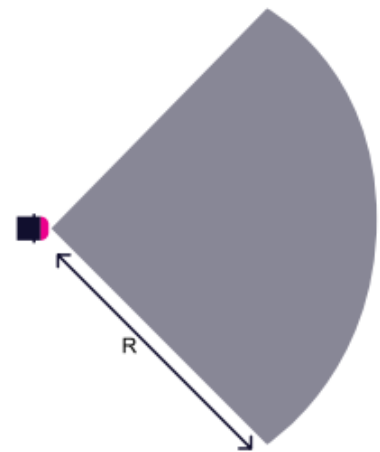
Picture 2: Wall mounting, horizontal cone