

# MyriaMesh Building Light Control

## Product sheet MyriaMesh BLC MultiSensor



“If you control the light you control the building”

### Switch or dim lighting fixtures based on motion or illuminance

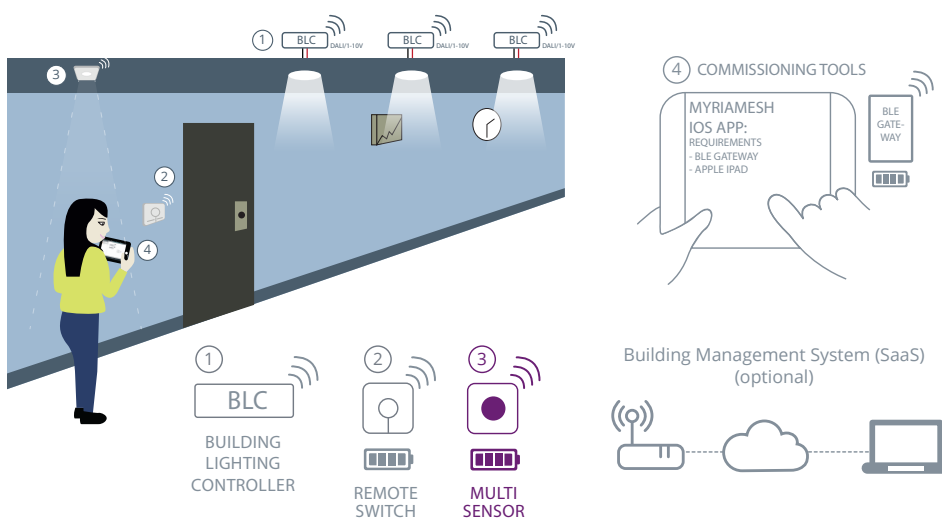
The MyriaMesh MultiSensor is a product from the Building Light Control product suite for wireless lighting control. The MultiSensor is a wireless PIR motion detector and light sensor with a life time battery and can easily be mounted on any ceiling or wall. The MultiSensor enables you to control (switch/dim) a group of lighting fixtures equipped with the Building Light Controller based on motion or illuminance.

All Building Light Control devices automatically form an ad-hoc wireless mesh network, that is called MyriaMesh. The MyriaMesh network is robust, self-organizing and self-healing. For reliable data communication the MyriaMesh network uses the 2.4GHz ISM band. The MultiSensor is fitted with an internal antenna providing enough reach for most indoor office and factory lighting applications.

#### 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 actual lux level at the sensorhead. With the MyriaMesh Commissioning App for iPad the properties for light control behaviour can be set for a group of lighting fixtures.

### BLC product suite



#### Features

- On-the-fly (re) commissioning with a MyriaMesh BLE Gateway and MyriaMesh app for iPad
- Connect to third party backoffice/ light management system
- Adjustable delay time for motion detection
- Constant light level control for automatic dimming or intensify a group of Lighting fixtures
- Calibration of light sensor for indirect measurement to adapt to different installation situations
- Optional mounting bracket of 45° for optimal mounting in every situation

#### Order information

5606.5000.001 BLC MultiSensor  
5606.5510.001 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 fixtures in one network
- Low operational cost

#### Note:

- The MyriaMesh BLC MultiSensor product sheet is subject to change.
- V0.3 03/10/2018

# Technical specifications

## Light measurement

Type: Light source independent ambient light sensor  
Range: 1 – 65.000 lx

## Environment

Operating temperature -20 °C to +45 °C  
Relative humidity 25% to 90%

## Protection degree

IP54

## Certification

ETSI EN 300 440  
ETSI EN 301 489-01/03  
IEC EN 60950-1:2006  
CE marking

## Radio

2.4GHz ISM band (2.400 – 2.4835 GHz)

## Power supply

Non replaceable and rechargeable battery  
Estimated battery life 15 years  
under normal conditions 20-25°C

## Notifications

Red LED for identification during commissioning

## Motion detection

Type: Passive Infrared (PIR) quad type with domed multilens  
Range: horizontal 360°, vertical 90°

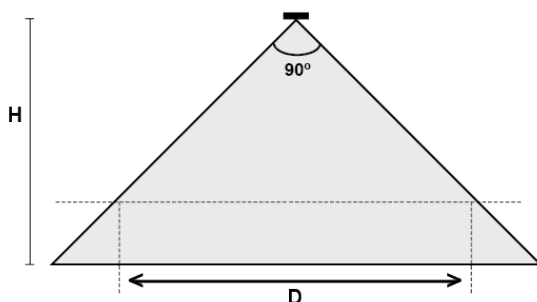
## Housing

LxWxH: 80 x 80 x 20 mm  
Material: Plastic  
Weight: 85 gram  
Color: White

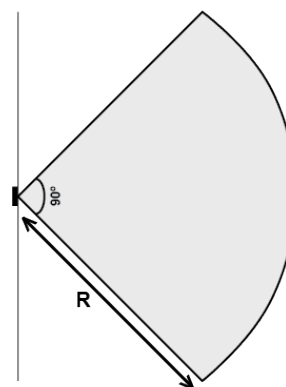
## Mounting

Surface mounting, no wiring  
Same format as traditional wall mount

Situation	Mounting Scenario	Maximum installation height [H]	Maximum reachable diameter [D]	Detection radius [R]	
1	Ceiling	Sitting at a workspace height of 80cm	4.5 - 5.0m	7.0 - 8.0m	
2	Ceiling	Walking below the detector	5.0 - 6.0m	8.0 - 10.m	
3	Wall	Walking across the detector	n/a	n/a	10.0 - 12.0m
4	Wall	Walking towards the detector	n/a	n/a	4.0m



Picture 1: Ceiling mounting, vertical cone



Picture 2: Wall mounting, horizontal cone

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