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Product sheet

Micro BLC Microwave

Making buildings smart

Description

The Micro BLC Microwave is a smart lighting module with clip-on microwave motion sensor option. A Micro BLC Microwave enables you to easily control a dimmable luminaire and add a radar sensor for automatic control options.

The Micro BLC Microwave offers exceptional accuracy in motion detection. Thanks to the Mymesh cutting-edge radar signal processing algorithm, the Micro BLC Microwave minimizes the risk of false triggers ensuring reliable performance.

With a Micro BLC Microwave you can easily control any 0-10V or DALI dimmable luminaire including DALI Type 8 (DT8) for tuneable white and RGB(W) control. Also remote monitoring of DALI emergency lighting is supported by the Micro BLC Microwave.

Technical summary

The Micro BLC Microwave is powered via the DiiA DALI standard or the driver's always-on auxiliary 12-24VDC power supply. D4i drivers have an integrated DALI bus power supply and can provide power to a connected Micro BLC Microwave.

The Micro BLC Microwave supports the following controllers:

- DALI 1.0 for Philips SR and Osram Dexal drivers
- DiiA D4i standard
- 0-10V Dim (open collector, not compliant with additive resistance controlled drivers).

Special features

An add-on microwave motion detector can be connected to the device.

Easy Installation & commissioning

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

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.

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Device Information

Connections	
Micro BLC MW	0.2 – 0.5 mm² AWG 22-24, solid conductor
Add on Sensor	Hytronik SAM4
DALI	Control device output for one (emergency) luminaire
0-10V output	Open collector (max 250 mA sink)

Protection Degree	
Micro BLC MW	IP20
Add-on Sensor	IP20

Energy Consumption	
Typical	0.2W

Order Information	
Micro BLC MW	BLC.6005.001
Add-on Microwave sensor (side connection)	BLC.6407.001
Add-on Microwave sensor (bottom connection)	BLC.6407.002

Environment	
Operating Temp.	-25˚ to + 70˚C (No frost, no condensation)
Relative Humidity	10% to 90%
Installation Height	Max. 2000m above sea level

Certification
ETSI EN 300 440
ETSI EN 300 328
ETSI EN 301 489-01/03/17
IEC EN 62368-1
RED / CE / UKCA

Housing	
LxWxH	48.5mm x 25.3mm x 26mm
Weight	35 gram
Material	ABS (PA-765 UL94 V-0)
Colour	RAL 9003

Radio	
Band	2.4GHz ISM band

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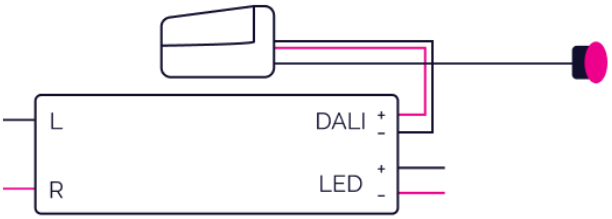
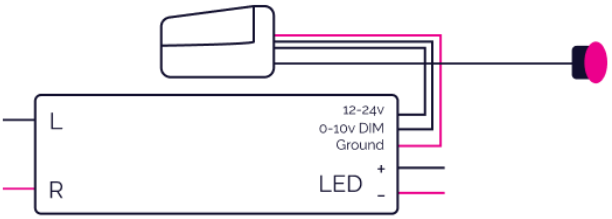
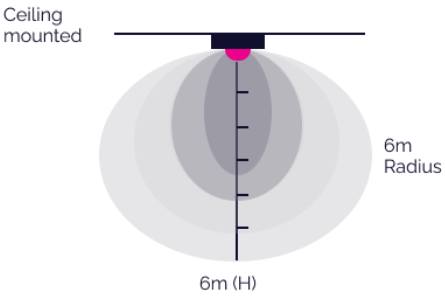
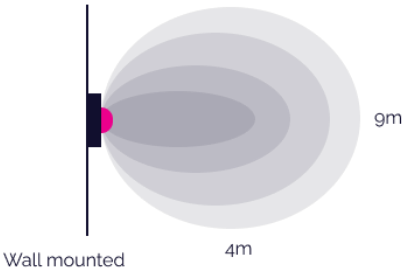
Installation



Philips Sensor Ready or OSRAM Dexal driver



0-10V dimmable driver with aux power supply

Sensor Information