mymesh
by Chess

Mymesh Product sheet

Connect any light, anywhere.

OLC 300S

Wirelessly control any make or type of luminaire

The OLC 300 series provide the controls and the wireless network to manage public lighting systems remotely. Mymesh automatically forms a wireless network that synchronizes and organizes itself. A network that consists of Mymesh is robust and very scalable. It is the perfect solution for streetlighting hence smart cities.

Technical summary

The Mymesh wireless network uses the 868 MHz ISM band and communicates with a back office via a 3G gateway (back office API available). Last but not least, the Mymesh network is multi-purpose and future proof with regard to smart city developments.

Customisation

A clip-on PIR motion detector can be connected to the Micro BLC. We provide four different types of motion detectors, covering most applications.

Network features

Wireless, stand-alone network that is self-organizing, self-healing and secure by design

- 868 MHz Lora communication for reliable data transfer
- Ultra-scalable to > 10.000 fixtures in one network
- Low operational cost
- Multi-purpose network
- Future proof with regard to smart city developments

Key features:

- Dimming and switching of a wide range of lamps and LEDs
- Low energy consumption by using latest RF technology
- 230VAC output with current measuring circuit
- Digital input for connecting radar detection or a push button

Optional

- On-the-fly (re) commissioning with the Mymesh commissioning app*
- Connect to third-party back-office / Light Management system (LMS) via a Mymesh Ethernet Gateway

Add the OLC300s to everystreetlight

Connect a gateway to the network

Commission the network

A smart city has never been so easy

All OLC's automatically connect to neighbouring devices. When a 3G gateway is added to the network, the data starts to appear in the designated dashboard. Here the user can commission, control and analyze his/her network.

Technical specifications

Connections

Power supply: single phase 230VAC (+/-10% 50Hz)
Switched 230VAC outlet: maximum 200W, current measurement circuit
Maximum switching current: 3A
Maximum switching voltage:277VAC
Maximum switching capacity: 720VA
DALI: master output (maximum of 1 slave) or 1-10V
Digital input: voltage free contact
Wiring: 1.5 mm2

Typical Energy Consumption

Without relay	1.0 Watt
With relay	1.5 Watt

Safety

Overvoltage category II (Add additional external protection if necessary)
Surge protection (1KV/L/N)
Basic isolation
External fuse needed (2A)

Protection degree

IP20

Environment

Temperature -25˚C to +70˚C
Relative Humidity 10% to 90%
Installation height up to 2000m above sea level

Certification

Safety standard EN 60950-1
EMC immunity EN61000
EMC emission EN55022 Class B
ETSI EN300 220
CE Marking

Radio

868MHz ISM band (869.400 - 869.650 MHz)
Transmitter duty cycle <10% (4% at a TDMA cycle time of 5 sec)
SRD receiver category 2
No listen before talk

Housing

LxWxH	150x40x30mm
Material	ABS PA-765
Weight	110 Grams
Color	Black