

# LMIC

## LMIC-R w/ Ambient Light Sensor (ALS)



LMIC-R Controller



LMIC-R(J-Box) Controller  
with Ambient Light Sensor

### Specifications

- AC Input Voltage - 110-277VAC | 50/60Hz
- Output Voltage - 110-277VAC | 50/60Hz
  - 110V - 300W Max
  - 277V - 400W Max
- DC Output - 0-10VDC Linear Continuous Dimming
- 0-10V Dimming - 60\_mA Max
- Operating Temperature - -4° to 120°F
- Wire Range - 18 - 22 AWG Wire
- LMIC-R Dimensions - 5.125" x 1.5" x 1.125"
- ALS Dimensions - 1.25" diameter"
- Bluetooth Range: Unobstructed: 250'
- With Interior Walls: 35'
- Maximum Nodes/Devices in a Group/Network: 32,768

### Description

The LMIC-R is a Bluetooth Mesh Controller that converts any 0-10V dimming light into a Bluetooth Mesh Node. The ALS is an ambient light sensor that harvests available light and inputs the ambient light level to the LMIC-R to maintain the set Brightness.

### Operation

The LMIC-R operates on 110-277V. The ALS is powered internally from the LMIC-R. Once powered up, the device broadcasts its identification code waiting to be provisioned through the LMIC iPhone App. The LMIC-R is designed for use with LMenergysolution 0-10VDC LED lighting, but it is compatible with any 0-10VDC LED lighting.

For non-LMenergysolution dimming drivers, dimming performance of the LMIC-R depends on dimmability of 3rd party 0-10V driver. Expected results can only be determined by testing in our facilities the driver(s) to be controlled.

The LMIC-R will operate non-dimming LEDs, in that it will turn lights on and off based on the set brightness.

### Features

- Simple to Install
- Converts any 0-10V dimming LED into a wireless controlled device.
- Programmable dimming curves
- Ambient Light Sensing (ALS) light harvesting
- Individual fixtures can be programmed with up to 10-time of day events.
- Bluetooth Mesh device to communicate with LMIC-T and other LMIC-Rs
- Does Not Require a Gateway
- 7-Year Warranty

### Certifications

ETL, FCC, FCC ID of microwave module, FCC ID OF Bluetooth module

### Installation

The installation very simple. The two wires for universal AC output are connected to the luminaire and two wires for 0-10V output are connected to the 0-10V input device. As soon as the LMIC-R is powered on through the AC input it will start broadcasting the non-provisioned advertising messages that will tell the LMIC app that a new device is ready to join. After the new LMIC-R joins the Mesh network it is ready to be configured (provisioned.) The LMIC-R can be installed inside fixtures, j-boxes, or inside its own UL listed enclosure. A non-metallic J-Box is recommended as to maximize Bluetooth coverage. LMIC-R (J-Box) is recommended is non-metal j-box is not available.

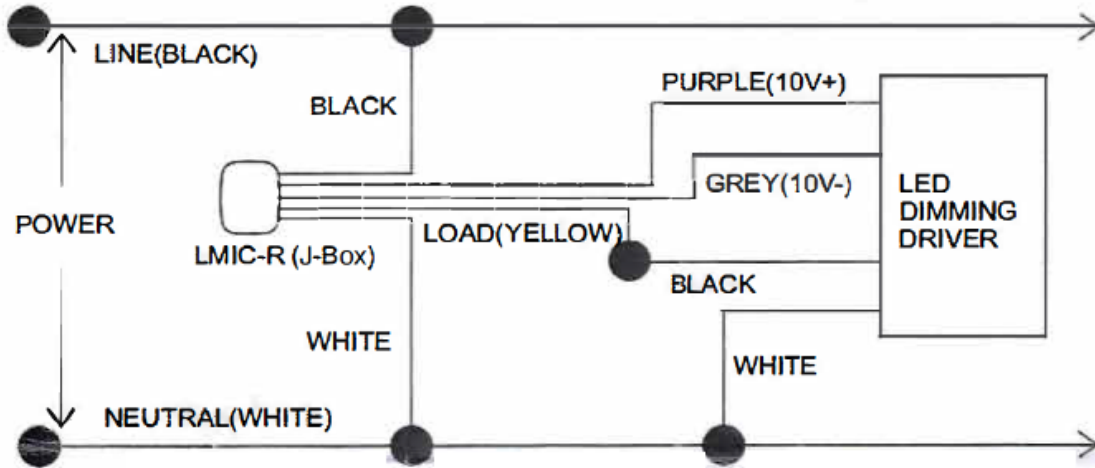
The ALS may be installed inside a troffer or outside of the fixture.

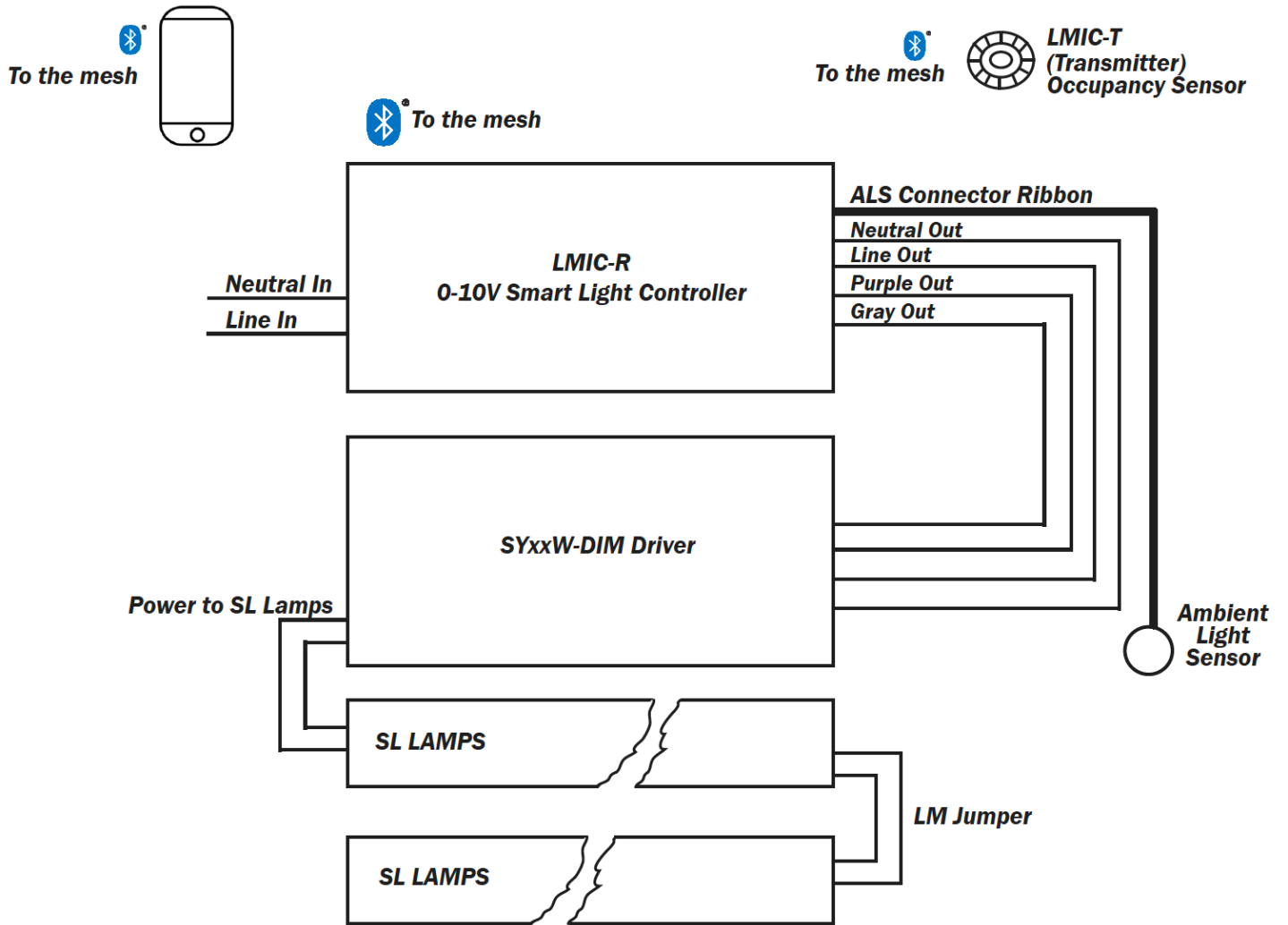
### Support

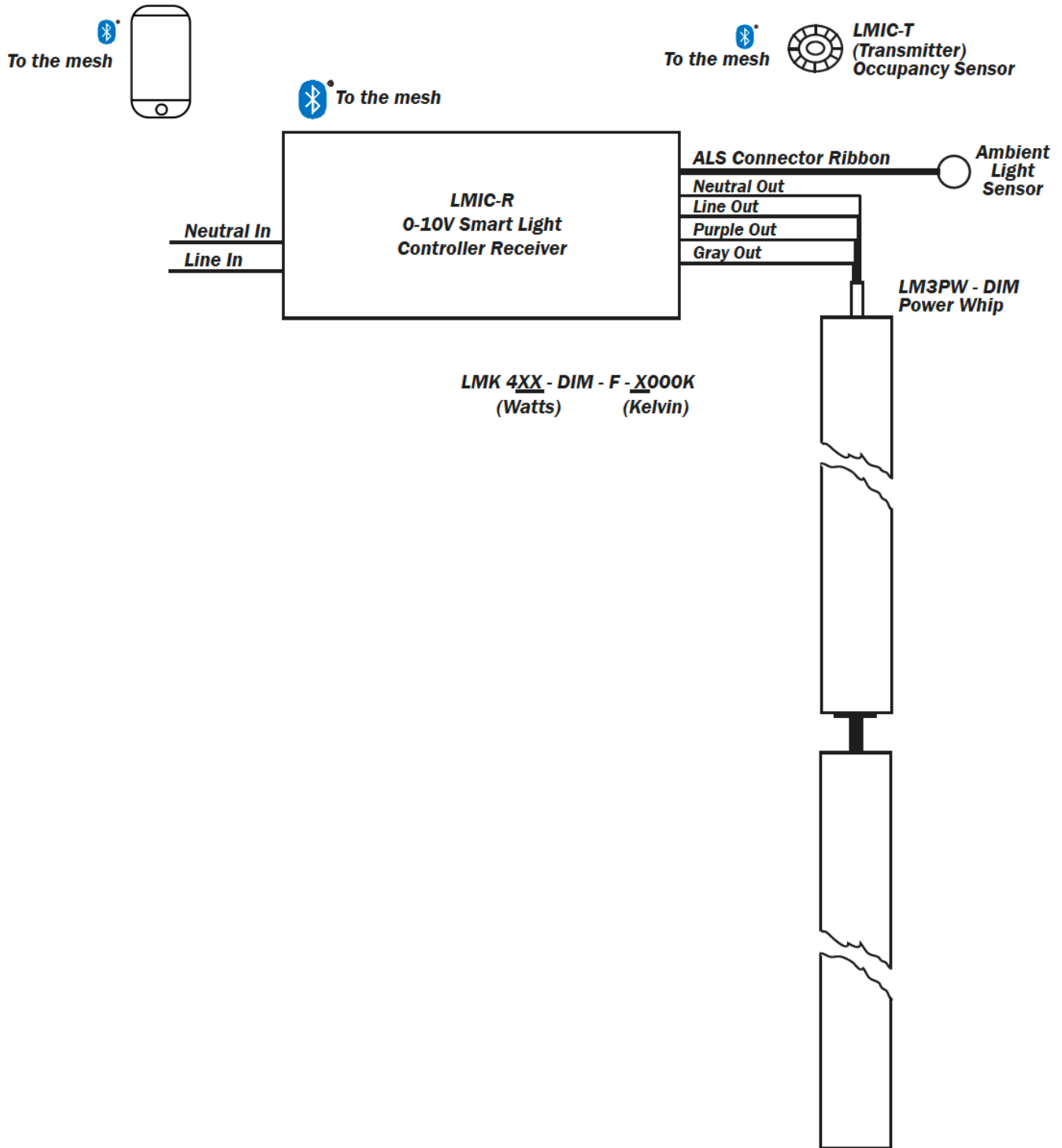
Technical and Sales Support - (888) 924-4533

# LMIC LMIC-R (J-Box) Wiring Instructions

## Wiring Diagram







LMKs may be linked up to:  
300 Watts - 120V  
400 Watts - 277V  
on a single LMIC-R