Wattstopper® PLUS

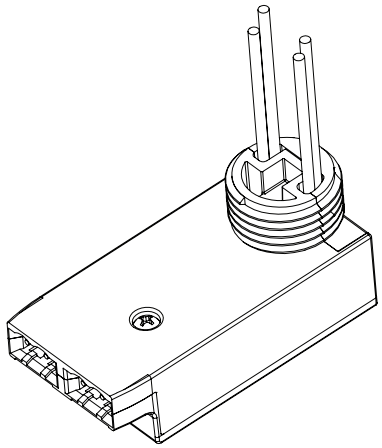
Luminaire Control Module

Installation Instructions • Instructions d'Installation • Instrucciones de Instalación

No: 080426 – 1024 rev. 2

Catalog Numbers • Les Numéros de Catalogue • Los Números de Catálogo:
EN-ILCM-1R10V-GB2-BK, EN-LCM-1R10V-GB2BKDR

Countries of Origin: China, Canada • Pays d'origine: Chine, Canada • Países de origen:China, Canadá



SPECIFICATIONS

Voltage ..... 22.5V, supplied by GreenBus

Load requirements..... not to exceed 4.5A, Ballast/LED Driver
..... Tungsten, Resistive, General Purpose

Class 2 0-10V Dimming Output

Operating Temperature ..... -40° to 131°F (-40° to 55°C)

Certifications

UL 2043 Plenum Rated, ROHS Compliant

UL/CUL listed under UL916. These models are all Complementary Listed to "Emergency Lighting Equipment", (UL924) intended for Indoor Locations.

FCC Part 15/ICES-003

Complies with Electromagnetic Compatibility (EMC) Standards: EN 61000-4-2 EN 61000-4-4, EN 61000-4-5

DESCRIPTION

The Wired Luminaire Control Module (LCM) is a 0-10V luminaire level load controller with an internal relay capable of switching AC loads. Similar to other GreenBus devices, the LCM receives power and communication from the Wired Manager. The device is configured to meet the lighting control strategies using the Wattstopper PLUS System.

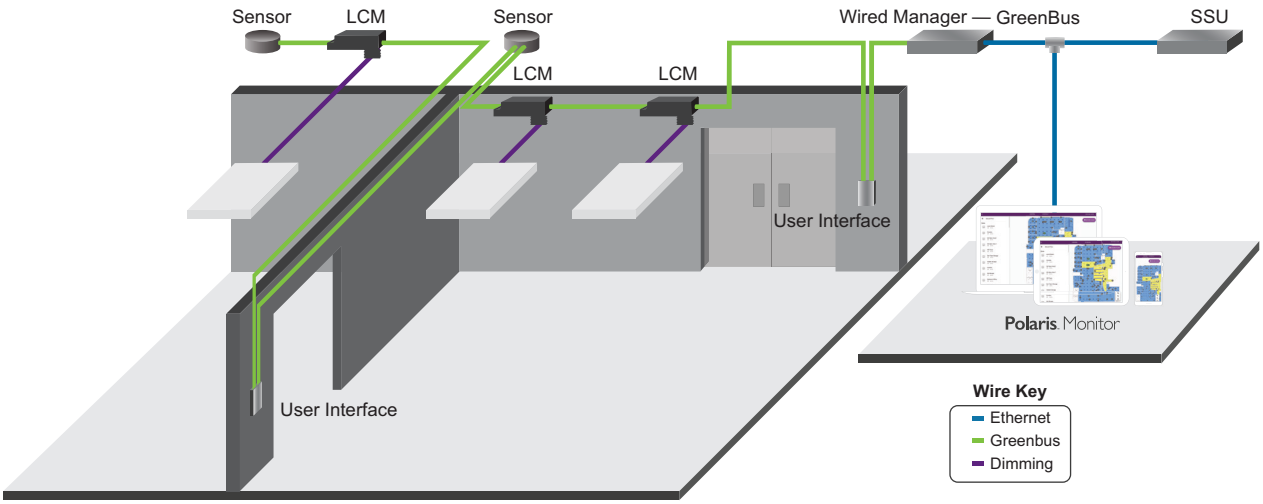
PRODUCT SAFETY

When using electrical equipment, basic safety precautions should always be followed, including the following:

- Do not mount near gas or electric heaters or let power supply cords touch hot surfaces.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment is not recommended by Legrand as it may cause an unsafe condition.
- Do not use this equipment for other than the intended use.

WIRED SYSTEM OVERVIEW

GreenBus technology makes wiring fast and error-free, since it's intuitive to install.



INSTALLATION AND MOUNTING

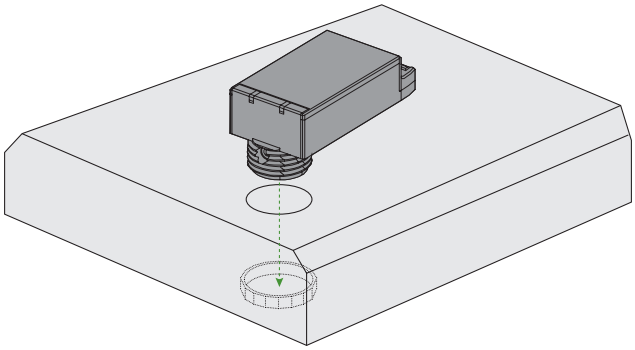
The LCM connects to LED drivers and electronic dimming, non-dimming, HID, etc., ballasts to make each individual device addressable and controllable.

NOTE: The LCM (EN-ILCM-1R10V-GB2-BK) should be installed in dry and indoor locations **only**. For damp installations, use the Damp Rated LCM (EN-LCM-1R10V-GB2BKDR). Damp locations are defined as: interior locations subject to moderate degrees of moisture, such as some basements, some barns, some cold-storage warehouses, and partially protected locations under canopies, marquees, roofed open porches, and the like.

When mounting, secure the retainer nut before wiring the module.

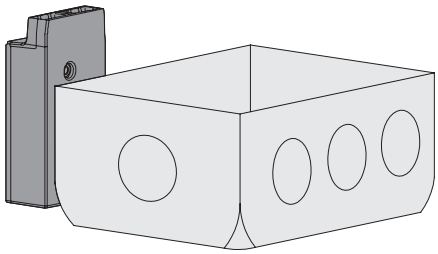
Option 1 – Luminaire Mount

The LCM can be installed in a PG-7 (0.5 inch) trade-size knockout on top or side of a luminaire.

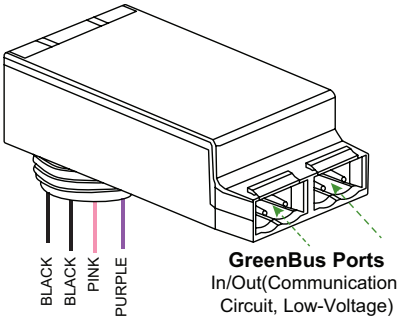


Option 2 – Junction Box Mount

For some installations, a junction box may be required. It is recommended to securely mount the LCM to the junction box using a PG-7 (0.5 inch) trade-size knockout and retainer nut.



WIRING

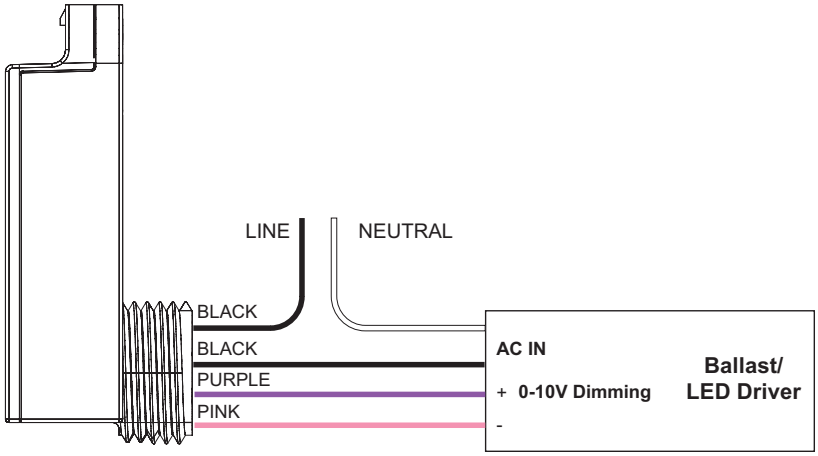


GreenBus Ports
In/Out(Communication Circuit, Low-Voltage)

Relay Contact
(Line Voltage)
Switches electronic ballasts;

Dimming Interface
(Class 2, Low-Voltage)
Controls 0-10V electronic dimming ballasts

Control & Power Wires



NOTE: Recommended relay switching capacity 120-347V, 300W max.

WARNING: TURN THE POWER OFF AT THE CIRCUIT BREAKER BEFORE WIRING.

GreenBus communication wiring is accessible from the outside of the luminaire, while all necessary wiring to the electronic dimming ballast is available on the inside.

The module is made from tested material to be used in plenum or “plenum rated” areas. All wiring is rated 600V, 105ºC (221ºF) for use in luminaires.

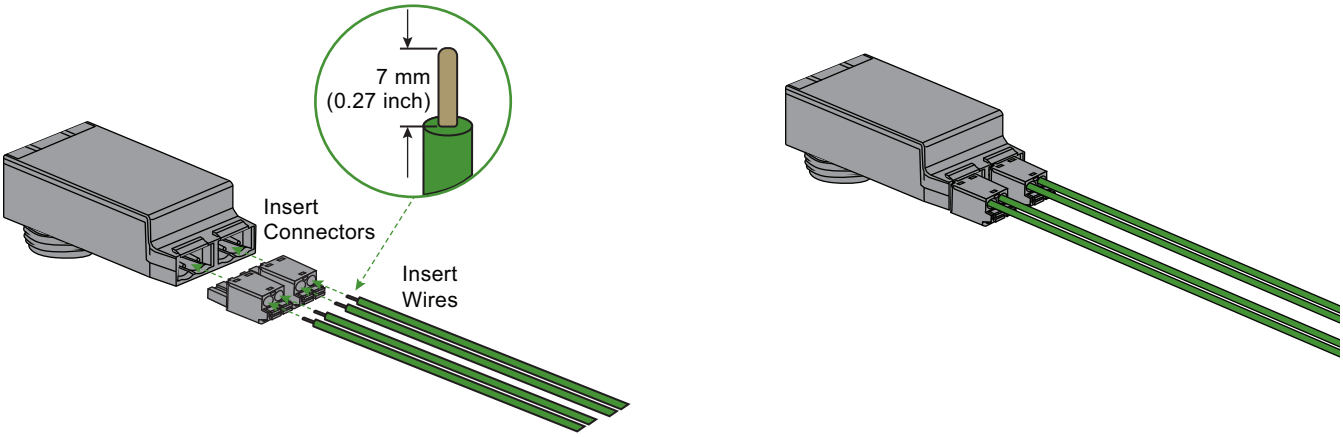
To control a two ballast luminaire, parallel all ballast input wires (line, neutral and control wires purple and pink). Legrand recommends using one module per ballast. Do not connect more than two ballasts in parallel.

GreenBus Wiring

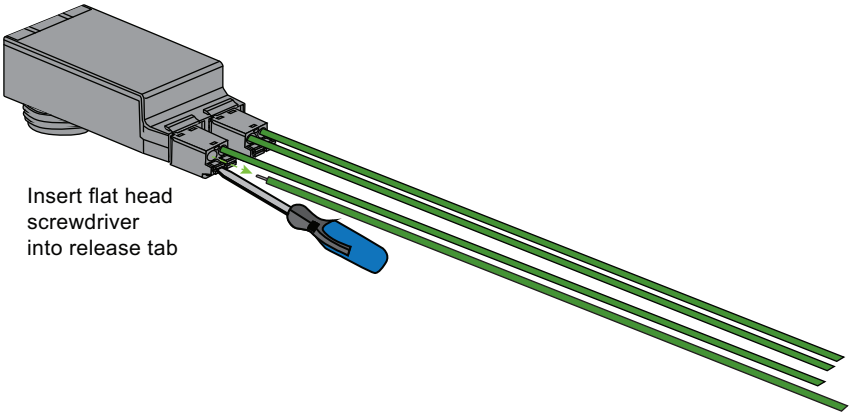
The GreenBus wiring originates at the Wired Manager and propagates in a daisy-chain from module to module (or other compatible equipment).

If changes are required, determine an optimum wiring path utilizing the supplied prefabricated cables, based on the position of luminaires and sensors. Because the modules obtain power via the GreenBus, the number of modules on each chain is limited. Legrand suggests leaving room for future system upgrades and to limit the number of modules per chain to 80 units during initial installation (validated using a voltage drop calculator). The GreenBus wires must be used with proprietary connectors supplied. Insert the connectors into the LCM GreenBus ports.

NOTE: GreenBus must be laid out as per supplied system layout drawing. If changes are required, determine an optimum wiring path utilizing the supplied cables, based on the position of the devices.

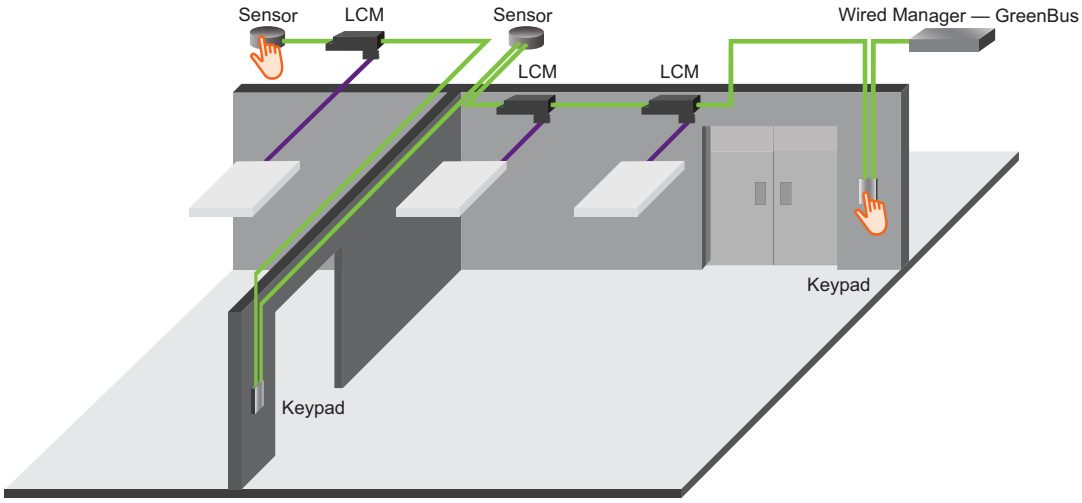


To remove the wires, use a flat head screwdriver to release the wires from the terminal blocks.



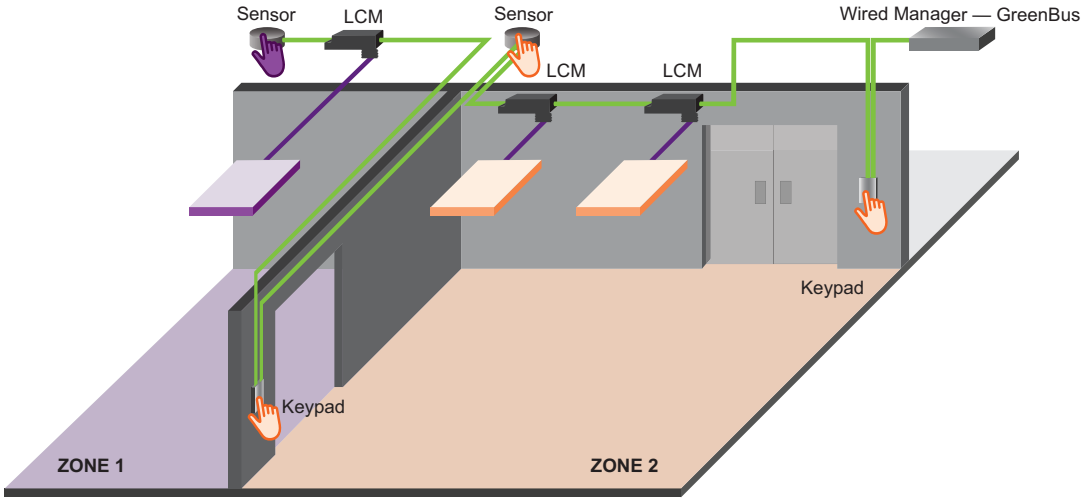
INSTALLATION TESTING

If a GreenBus Manager has not been previously commissioned, installers can quickly test if the devices have been wired correctly by pressing any button on the wallstation or the sensor which triggers all the load controllers on the channel to change the dimming level by 25%. Every press will trigger this function to enable testing of the AC line wiring, dimming wiring and communication integrity over the GreenBus lines.



MANUAL PAIRING

If a GreenBus Manager has not been previously commissioned, installers can easily pair devices in a room or a zone to gain manual control (on, off and dimming) and occupancy time outs. Holding any buttons on a wallstation or sensor for 10 seconds enters the system in the Manual Pairing mode. The system then guides the user by blinking the load controllers on the GreenBus wiring scheme as a means of identifying and pairing them to the wallstation or sensor.



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