

WIRED AREA LIGHTING CONTROLLER

EN-ALC-1R10V-GB2-BK

Luminaire or
Junction Box MountGreenBus Wired
CommunicationSingle 0-10V dimming
output, capable of sinking
30mA

Damp rated model available



DESCRIPTION

The Area Lighting Controller (ALC) provides a high-power switching and dimming interface between a group of luminaires and the GreenBus™ communication network. Individually addressable with the Encelium X Lighting Control System, the ALC switches a single wired zone of multiple luminaires ON or OFF via an integral high current relay while setting the zone's overall light level with a 0-10V dimming output wired to the luminaires' dimming ballasts or LED drivers.

The ALC's dimming output is fully isolated and suitable for installation as either an NEC Class 2 or Class 1 circuit. The ALC can switch an entire circuit of electrical loads and is suitable for general-purpose plug load control. It replaces the need for standard power relays or switch packs.

FEATURES

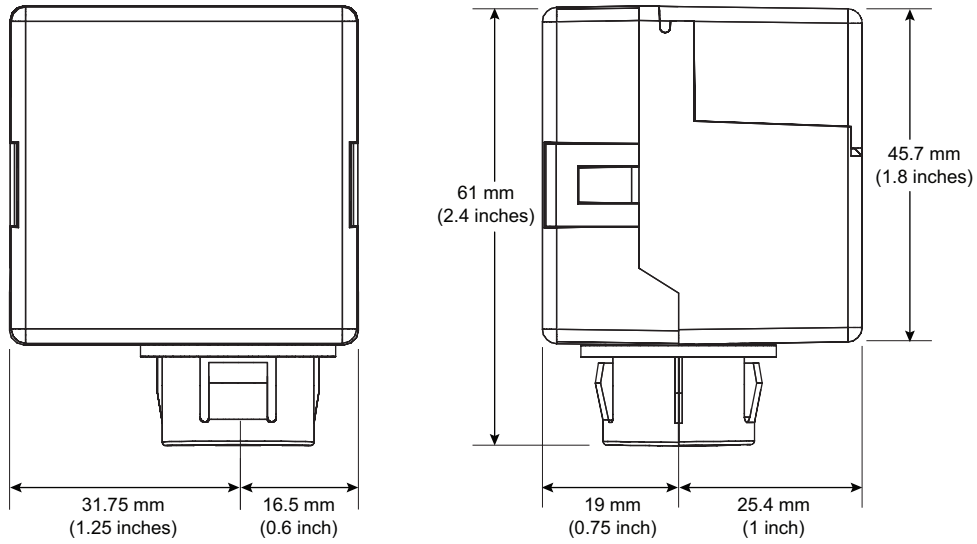
- Adjusts light levels to respond to variable lighting requirements
- Enables scheduling luminaire group operation to lower energy use during off-peak occupancy
- Customizing lighting scenes for tailored experiences/tasks
- Allows adjustment of luminaire group assignments for modified space layouts
- Damp rated model available to suit environments with moderate degree of moisture such as basements and garages

SPECIFICATIONS

- Voltage: 22.5V, supplied by GreenBus
- Maximum Output Load Ratings
 - @120/277/347V, 20A; Ballast/LED Driver, Tungsten, Resistive, General Purpose
 - @120/277V; 1.5 HP VAC Motor
- Class 1 or Class 2 0-10V Dimming Output
- Mounting Options:
 - Luminaire Mount
 - Junction Box Mount (Standard PG-7 (0.5 inch) trade-size knockout)
- Operating Temperature 32° to 131°F (0° to 55°C)
- Weight: 93 g (3.3 oz)
- Certifications
 - UL 2043 Plenum Rated, ROHS Compliant
 - UL/CUL listed under UL916. These models are all Complementary Listed to "Emergency Lighting Equipment", (UL924)
 - FCC Part 15/ICES-003
- Complies with Electromagnetic Compatibility (EMC) Standards: EN 61000-4-2 EN 61000-4-4, EN 61000-4-5
- 5 year warranty

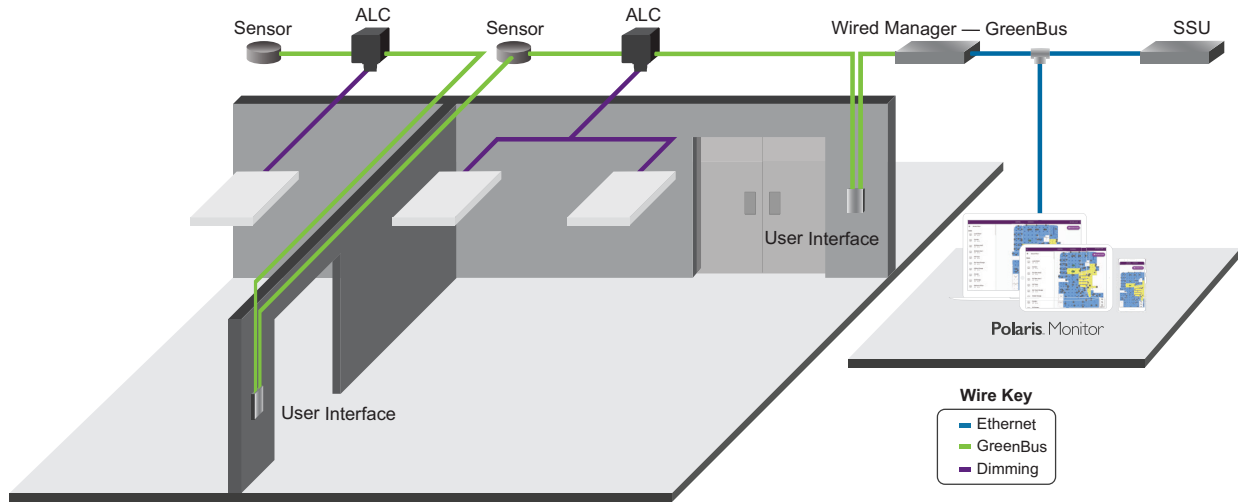
PROJECT		LOCATION/ TYPE	
---------	--	-------------------	--

DIMENSIONS



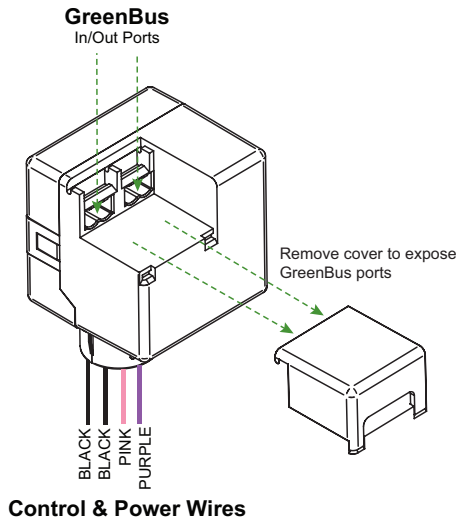
SYSTEM OVERVIEW

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

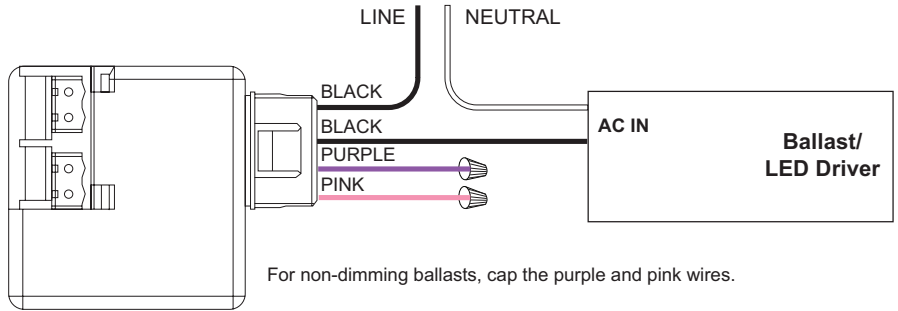


WIRING

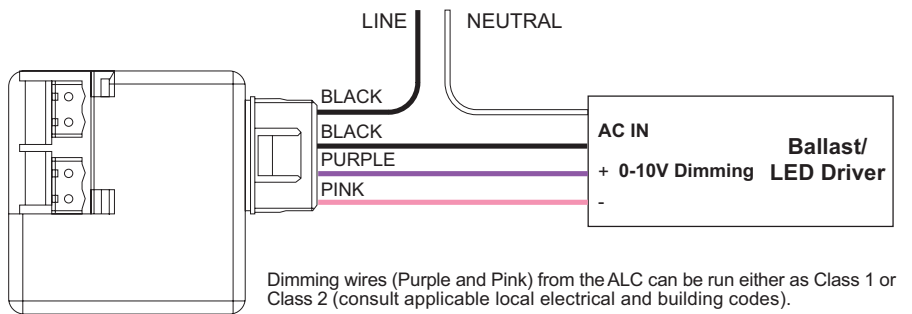
ALC Wiring



Non-Dimmable Luminaire Wiring



0-10V Dimmable Luminaire Wiring

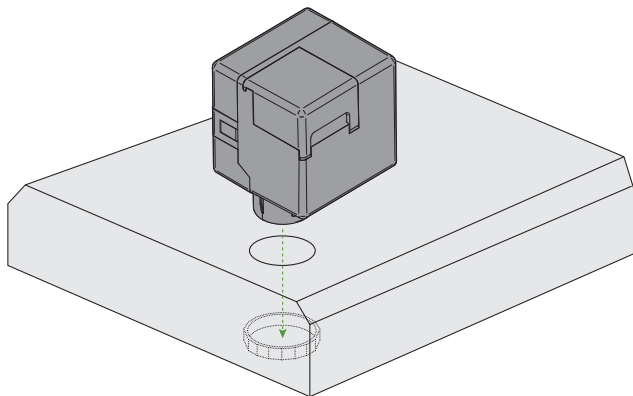


MOUNTING OPTIONS

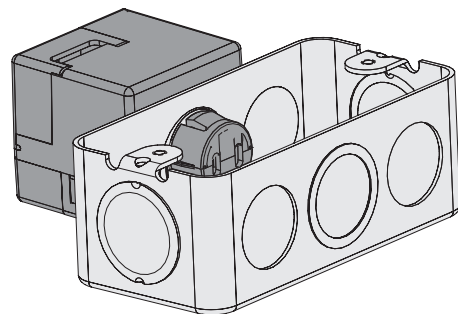
The mechanical construction allows for simple installation of the ALC to an available PG-7 (0.5 inch) trade-size knockout on the side or on top of a luminaire. GreenBus communication wiring is still accessible from the outside of the luminaire, while all necessary wiring to the electronic dimming ballast/LED driver is available on the inside.

For some installations, a junction box may be required. Legrand recommends securely mounting the ALC to the junction box using an available PG-7 (0.5 inch) trade-size knockout.

Luminaire Mount

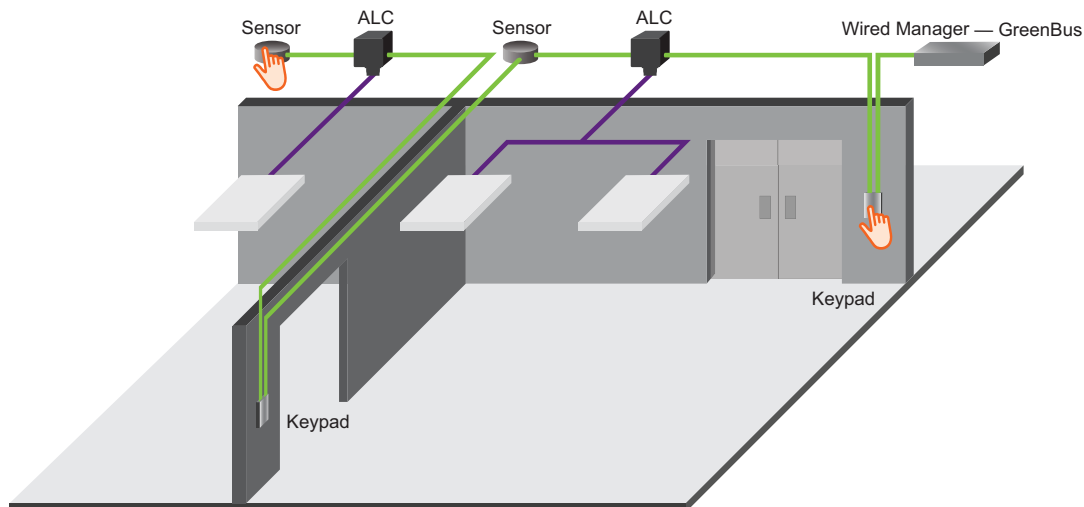


Junction Box Mount



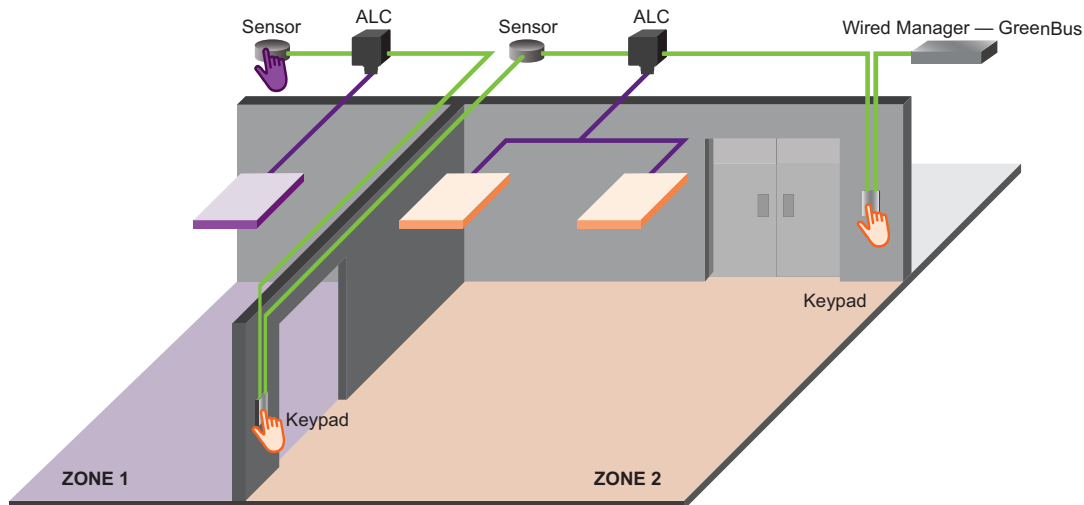
INSTALLATION TESTING

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.



ORDERING INFORMATION

Catalog #	Description	Communication Network
■ EN-ALC-1R10V-GB2-BK	Area Lighting Control Module	Wired GreenBus
■ EN-ALC-1R10V-GB2BKDR	Area Lighting Control Module, damp rated	Wired GreenBus