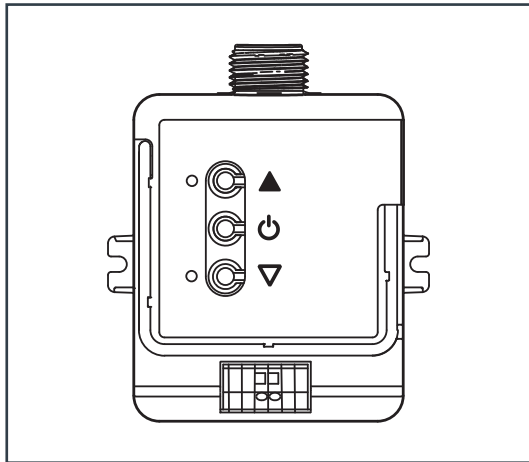


FIXTURE CONTROLLER (ALC/ALCE)



APPLICATIONS

- Small offices
- Conference rooms
- Lounges
- Classrooms

SPECIFICATIONS

ELECTRICAL	
Regulatory Approvals	<ul style="list-style-type: none"> • Title 20/24 certified lighting control device. Complies with Title 20 and Title 24 Section 110.9 • Enables compliance with lighting control requirements in ASHRAE 90.1 and IECC • Complies with requirements for use in a compartment handling environmental air (plenum) per NEC® 2011 300.22(C)(3) • ALC is cULus Listed, NOM Certified, and FCC Approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rule
Wiring	Control wires can be run as either Class 1 or Class 2 <ul style="list-style-type: none"> • ALC: gray and violet wires • Lutron EcoSystem: violet wires
Frequency	431.0–437.0 MHz (U.S.A., Canada)
Power / Load	<ul style="list-style-type: none"> • Operating voltage: 120 – 277V \ominus 50/60 Hz • 1 A switching maximum, electronic ballast or LED driver for 0 – 10V --- load • Standby power consumption < 1W ALC (0 – 10V ---) • Controls up to 6 mA of 0 – 10V --- controlled fixtures. Controls up to 3 ballasts or drivers (IEC 60929 Annex E.2 requires the ballast or driver to limit the current draw to 2.0 mA maximum). 0 – 10V --- control link on ALC automatically sources or sinks to third-party fixtures (Lutron EcoSystem) • Controls up to 3 Lutron EcoSystem LED drivers or ballasts. Multiple ballasts or drivers control only one combined zone of lighting
ENVIRONMENTAL	
Ambient Operating Temperature	32°F to 104°F (0°C to 40°C), 0%–90% humidity, non-condensing; indoor use only
OTHER	
Range	<ul style="list-style-type: none"> • Wireless sensors and controls must be located within 60ft (18m) line of sight, or 30ft (9m), through walls, of the associated control module. • Utilizes Lutron Clear Connect RF Technology
Mounting	<ul style="list-style-type: none"> • Wireless fixture control mounts to a fixture or a U.S.-style junction box through a standard 1/2in (12.7mm) knockout. NOTE: The wireless fixture control needs to be accessible for some programming steps. Record where it is mounted so that it can be easily located later.
Warranty	Limited Five-Year Warranty

OVERVIEW

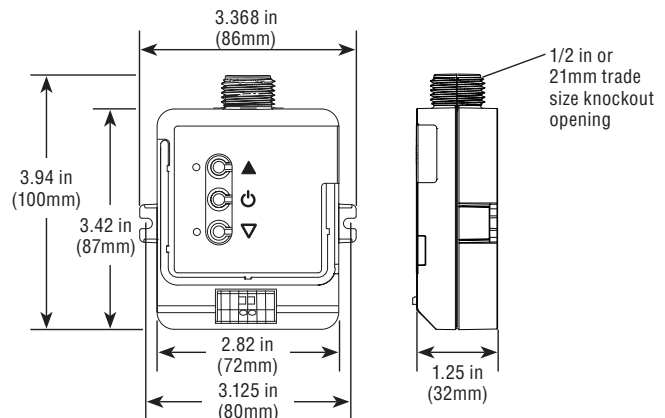
The wireless fixture controller is a radio-frequency (RF) device that controls the 0–10V --- or Lutron EcoSystem electronic fluorescent ballasts and LED drivers (depending on model). This is based on RF input from wireless switch (ALWS), ceiling-mounted wireless sensors, or wired inputs from the fixture sensor. The control module mounts to a fixture or a U.S.-style junction box. Communication with RF input devices is accomplished using Lutron Clear Connect RF Technology. This controller works with fixture sensors: occupancy (ALOS), vacancy (ALVS). The ALC/ALCE, ALOS/ALVS are factory-installed for your convenience.

These products are also compatible with the Vive wireless hub which enables a simple setup process using a standard web browser on any Wi-Fi enabled phone, tablet or computer. The hub also enables control and monitoring of all wireless devices.

FEATURES

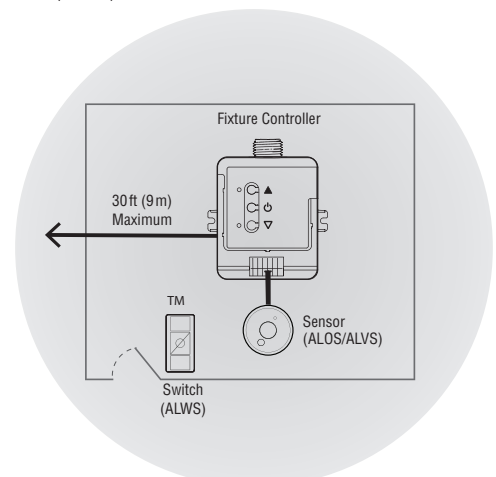
- Minimum Light Level Setting (optional). Certain applications, such as hallways, may require that the lights never turn off. For these areas, select the minimum light level option and the load will lower to programmed low-end level
- Daylighting dims lights down to OFF. Occupancy sensor must go unoccupied (vacant) in order for the fixture sensor to turn the lights off
- Occupied light level can be changed via the ceiling-mounted wireless occupancy sensor. This can also be changed now using the wireless hub web app when connected to an AirLink system.
- Favorite light level can be set using an ALWS
- Power failure memory: If power is interrupted, connected loads will return to the previous level
- Low-end trim adjustment (default is 1V --- or ballasts/drivers minimum for Lutron EcoSystem ballasts/drivers). High-end trim adjustment (default is 10V --- or 100% for Lutron EcoSystem ballasts/drivers)
- Includes integrated power measurement circuit that provides data to the wireless hub with \pm 2% accuracy or 0.5W whichever is higher

DIMENSIONS



RANGE DIAGRAM

NOTE: Wireless sensors and controls must be located within 60ft (18m) line of sight, or 30ft (9m), through walls, of the associated control module.



FIXTURE CONTROLLER (ALC/ALCE)

WIRING DIAGRAM

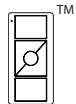
The following can be used per each wireless fixture control:

Wired:

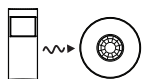


- Maximum of one (1) fixture sensor (occupancy/vacancy/daylight) **NOTE:** Only one wireless fixture controller can be used per fixture sensor, and vice versa. Grouping more than one sensor to control a group of controllers requires adding a wireless hub

Wireless:



- Maximum of ten (10) wireless switches



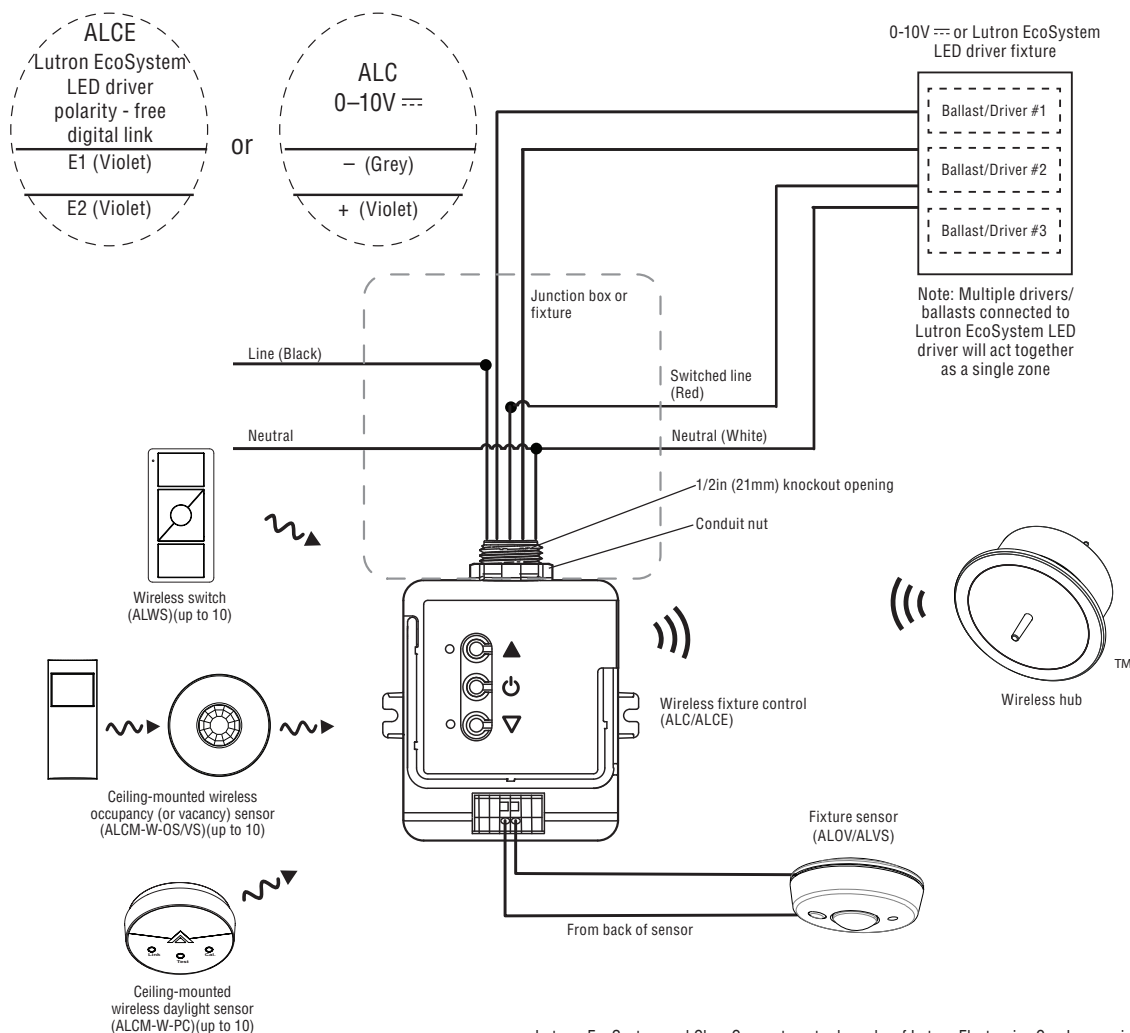
- Maximum of ten (10) ceiling-mounted wireless occupancy sensors



- Maximum of one (1) ceiling-mounted wireless daylight sensors



- Each hub can control 700 devices. 64 hubs can be networked together through an ethernet switch



NOTES

- When using an ceiling-mounted wireless daylight sensor in conjunction with both an wireless fixture control and fixture sensor, the ceiling-mounted wireless daylight sensor will provide the daylighting input to the control module, and the fixture sensor daylighting input will be ignored.
- When using an ceiling-mounted wireless occupancy sensor in conjunction with both an wireless fixture control and fixture sensor, occupancy data from both sensors is used; either one detecting occupancy will turn the lights on, and the lights turn off only when both sensors have gone vacant (no longer detect occupancy).
- Grouping enables an ceiling-mounted wireless occupancy sensor or ceiling-mounted wireless daylight sensor to group and control more than one fixture together.
- Ceiling-mounted wireless occupancy sensors can be used with the fixture sensor to add coverage area.

ORDERING INFORMATION

PART NO.	CAT. NO.	DESCRIPTION
624087	ALC	Fixture controller (0-10V)
634480	ALCE	Fixture controller (Lutron EcoSystem)

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Project Name _____ Catalog # _____

1-800-436-7800 (Support, Option 8) www.lsi-airlink.com

04/25/17

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