

Overview

Lighting Designers and Engineers specify LED luminaires to deliver savings and performance. Contractors are looking for quick, trouble-free installations. Everyone is looking for a cost effective solution that meets industry demands without complication or risk.

The ELED1H is a wireless power pack style lighting controller designed to operate with today's dimmable luminaires. Combining a 240–347 VAC input, 0–10V dimming capability and a rugged load relay, the ELED1H is ideal for individual fixture or single zone lighting control. The controller provides fixture intensity and control based on occupancy state, manual switch action, ambient light levels and gateway commands.

Intuitive application operation begins with automating lights on and off with occupancy when only sensors are linked. Auto-detection on the dimming interface adjusts controller operation between switching to dimming automatically. A photo-inhibit feature can temporarily disable automatic-ON lighting when natural light is above set point. Inherent versatility is demonstrated by delivering daylighting control sequences satisfying both open-ceiling atrium areas or traditional office spaces. Energy code support is defined within factory default settings insuring out-of-box, nation-wide compliance.

Echoflex ELED products now include preset functionality that allows spaces to be lit with *lighting scenes*. Presets can be activated from scene stations, wireless time clocks or gateways. A lockout feature allows time clocks to schedule a controller's response to specific sensor types or stations based on time-of-day.

The controller is Range Confirmation® compatible, working with all Echoflex sensors equipped with the Range Confirmation feature to provide visual feedback of a linked sensor's signal strength for optimal sensor placement.

Echoflex offers pre-linking and pre-commissioning on all products sold as a system through Echoflex.

Simple Tap™ technology is included allowing installers and facility operators to manage configuration settings without any specialized tools.



Features

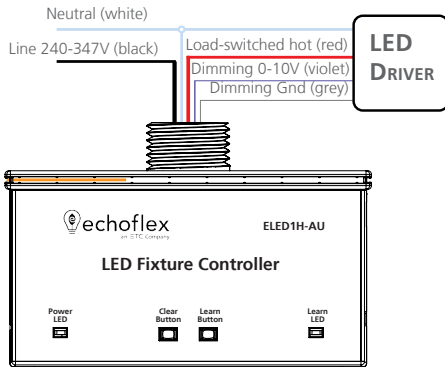
- Individual fixture or single zone control with 0–10 V dimming
- Integrated daylight harvesting control with photo inhibit mode
- Occupancy control with auto- ON/OFF or vacancy control with manual-ON/auto-OFF
- Automatically detects dimming loads for easy adaption between switching and dimming functions
- Multiple embedded preset values allow lighting scene recall
- Lockout control allows scheduling of sensor inputs
- Used with battery-free wall switches, photo sensors and occupancy sensors
- Pre-linking and Pre-commissioning available when sold as a system through Echoflex
- Central Command support for BEMS gateway control
- Range Confirmation allows optimal placement of linked sensors - (Echoflex sensors with range confirmation feature only)
- Easy installation on electrical junction boxes with 1/2" nipple
- Easy commissioning options include embedded Simple Tap technology plus Garibaldi, Echoflex's remote commissioning software

Ordering Information

Description	902 MHz Model	Part Number
LED Fixture Controller, 240–347 VAC	ELED1H-AU 240-347	8189A1148-X-1

ELED1H

Wiring Diagram



Max. Impulse Voltage:
4000 V
Internal Relay:
Type 1.C
Dimming output is Class 1 circuit
Independently mounted control

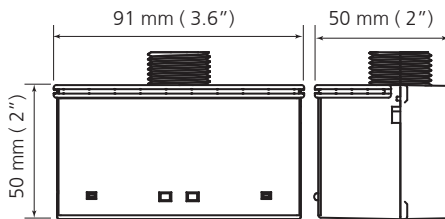
Equipment Profiles - Remote Devices Supported

EEP: F6-02-01/02	Light and Blinds Control - EU and US/Canada applications
EEP: A5-06- (01-05)	Light Sensor - light level and supply voltage
EEP: A5-07- (01-03)	Occupancy Sensor - with supply voltage and light level
EEP: A5-37-01	Energy Management - Demand Response
EEP: A5-38-08	Central Command - switching and dimming
EEP: D2-14-25	Light Sensor and CCT - light intensity

Hardware Specifications

Power Supply	240–347 VAC, 50/60 Hz
Power Consumption	500 mW max.
Inputs	LEARN and CLEAR buttons for sensor assignment
Outputs	2 LED indicators, Learn and Power (red)
Maximum Dimming Load	0–10 V with 100 mA sinking current
Safety Standards Maximum Load: Type and Rating	
Electronic Ballast or LED Driver	20 A @ 240–277 VAC
Electronic Ballast or LED Driver	16 A @ 347 VAC
Magnetic Ballast	20 A @ 240–347 VAC

Dimensional Diagrams



Communications

Radio Frequency	902 MHz
Antenna	Integrated Whip
Transmission Range	24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight

Mechanical Specifications

Operating Temperature	-5°–50° C (23°–122° F) ambient
Relative Humidity	5–93% RH (non-condensing)
Weight	14 oz (0.875 lb)
Mounting	½" nipple mount
Dimensions	91 x 50 x 50 mm (3.6 x 2 x 2")

Regulatory Agencies and Listings

Energy Code Compliance

California Energy Commission Title 24 - CEC
Washington State Energy Code - WSEC
ANSI / ASHRAE / IES Standard 90.1
International Energy Conservation Code - IECC
New York City Energy Conservation Code - NYCECC

Safety

Certified to UL Standard 924
Certified to UL Standard 60730
Certified to CAN/CSA Std. E60730
UL 2043 Plenum rated

Radio Frequency (902 MHz)

FCC Part 15.231 -Remote Control Transmitter
IC RSS-210



Specifications are subject to change without notification | Range Confirmation is an Echoflex Solutions, Inc. patented technology
Simple Tap is a trademark of Echoflex Solutions, Inc.