



Type(s)  
Project  
Date  
Notes

**GENERAL INFORMATION**

The ELED1H is a wireless power pack style lighting controller designed to operate with today’s dimmable luminaires. Combining a 240–347 VAC input, 0–10 V 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.

The ELED1H supports intuitive operations like occupancy-based auto-ON and OFF lighting with linked sensors. Auto-detection on the dimming interface adjusts the operation between switching to dimming automatically. A photo-inhibit feature can temporarily disable auto-ON lighting when natural light is above the set point. It delivers daylighting control sequences that satisfy both open-ceiling atrium areas or traditional office spaces. Factory default settings are compliant to nationwide energy codes.

Echoflex ELED products 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.

**APPLICATIONS**

- Education: Classrooms, learning assistance
- Restaurants: Dining rooms, banquet halls
- Healthcare: Exam rooms, clinical environments
- Commercial office: Conference and meeting rooms
- Retail: Showcase displays

**ORDERING INFORMATION**

**LED Fixture Controller - High Voltage**

MODEL	DESCRIPTION
ELED1H-AU 240-347	LED Fixture Controller - High Voltage, 1/2 in nipple mount, 240–347 VAC

**FEATURES**

- Individual fixture or single zone control with 0–10 V dimming
- Integrated daylight harvesting control with photo inhibit mode
- Occupancy state options of automatic partial-ON control or vacancy control with manual-ON, partial/full-OFF
- Automatically detects dimming loads to easily shift between switching and dimming functions
- Multiple embedded preset values allow lighting scene recall
- Lockout feature allows masking of sensor inputs based on time-of-day events
- 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 Building Energy Management System (BEMS) gateway or timeclock control
- Easy installation on electrical junction boxes with 1/2 in nipple mount
- Easy commissioning options include embedded Simple Tap technology plus Garibaldi Pro, Echoflex’s remote commissioning software
- Doubles as a telegram repeater
- Energy code compliant factory defaults

## SPECIFICATIONS

### HARDWARE

- Power supply: 240–347 VAC at 60 Hz, 1 pole
- Power consumption: 500 mW max. (no load)
- Inputs: LEARN and CLEAR buttons
- Outputs: Two Tri-Color LED indicators, Learn and Power
- Maximum dimming load: 0–10 V with 100 mA sinking current

### SAFETY STANDARDS MAXIMUM LOAD: TYPE AND RATING

- Electronic ballast or LED driver:
  - 16 A at 240–347 VAC
- Standard / Magnetic ballast:
  - 20 A at 240–347 VAC

### COMMUNICATIONS

- 902 MHz (U) radio frequency
- Wireless range of up to 24 m (80 ft) - commercial office spaces (typical), up to 100 m (330 ft) line-of-sight
- Integrated whip antenna

### ENVIRONMENTAL

- Operating temperature: -5°C to 50°C (23°F to 122°F) ambient
- Relative humidity: 5%–93% non-condensing, indoor use only

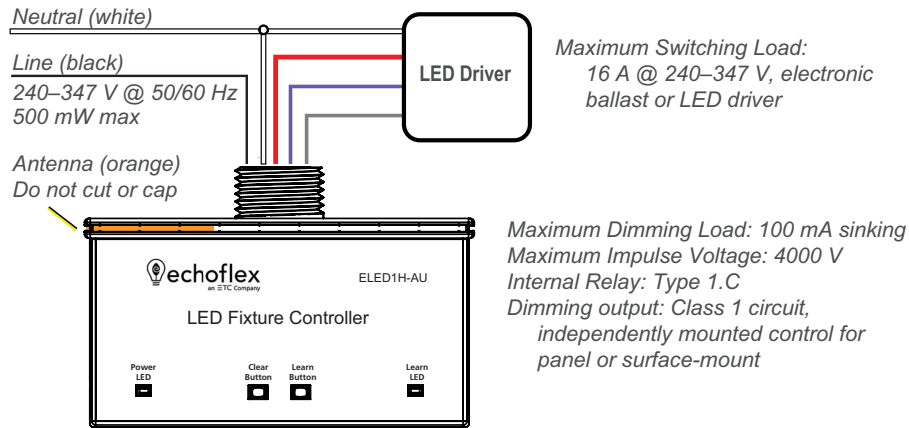
### REGULATORY AND COMPLIANCE

- 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
- UL Standards: UL 924, UL 60730, UL 2043 Plenum rated
- Certified to CAN/CSA Std. E60730
- FCC Part 15.231 - Remote Control Transmitter
- Industry Canada RSS-210

### Remote Devices Supported

MODEL	DESCRIPTION
EEP: F6-02-02	Light and Blinds Control - EU and US/Canada applications
EEP: F6-04-01	Keycard activated switch
EEP: A5-06- (01-05)	Light Sensor
EEP: A5-07-01	Occupancy Sensor - with supply voltage
EEP: A5-37-01	Energy Management - Demand Response
EEP: A5-30-02	Window or door contact
EEP: A5-38-08	Central Command - switching, dimming, set point
MSC	Structured Command, manufacturer specific, contact Echoflex for more details

## WIRING DIAGRAM



## PHYSICAL

### LED Fixture Controller - High Voltage Weight and Dimensions†

MODEL	HEIGHT		WIDTH		DEPTH		WEIGHT	
	mm	in	mm	in	mm	in	g	oz
ELED1H	50	2.0	91	3.6	50	2.0	397	14

†Note: Mounts in typical flush-mount North American style two-gang electrical boxes, minimum depth 50 mm (2.0 in)

