

Overview

The ELED2 is designed for open office spaces, classrooms, boardrooms, and conference rooms where intensity and tunable white color temperature control are desired. The integral relay and two robust 0-10V outputs allow the ELED2 to control a single LED fixture or entire zone.

The ELED2 controls dimmable light and tunable color temperature levels based on occupancy state, manual switch action, ambient light level and gateway commands. Intuitive application operation begins with automating lights on and off with occupancy when only sensors are linked. 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.

When used with Echoflex's TAP-41 light Intensity and CCT sensor, the controller automatically adjusts white color temperature to meet a desired value based on the sensors feedback. In other CCT applications, the controller can modulate color temperature set by time-of-day schedules or mimicking current outdoor values. The controller supports dim-to-warm technology for a smooth transition of warming color temperature as intensity fades. Explicit control of the two output channels via wall switch stations is also supported.

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 and include values for intensity and color temperature. 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 compatible with all Echoflex sensors equipped with Range Confirmation® technology providing visual feedback of the sensors' radio signal strength to ensure optimal sensor placement.

The ELED2 is fully supported in Echoflex's pre-commissioning services when sold as a system.

Two models of the ELED2 are available. The ELED2 provides control of electrical circuits from 120VAC through to 277VAC and the ELED2H operates from 240VAC to 347VAC.



Features

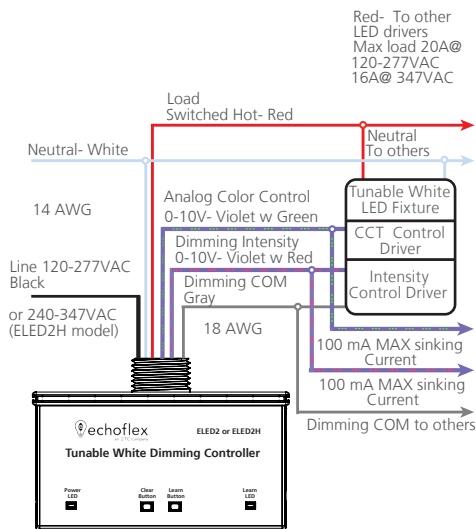
- Designed for LED fixtures with two 0-10V channels for dimming and tunable-white color temperature control
- Integrated daylight harvesting control supporting open and closed loop applications
- Multiple embedded preset values allow lighting scene recall
- Lockout feature allows masking of sensor inputs based on time-of-day events
- Occupancy state options of automatic partial-ON control or vacancy control with manual ON, partial/full-OFF
- Central Command support for BEMS gateway or timeclock control
- Dynamic CCT set point, dim-to-warm, or manual control of tunable white color temperature LED fixtures
- Pre-linking and pre-commissioning available when sold as a system through Echoflex
- Range Confirmation® allows optimal placement of linked sensors
- Easy commissioning options include embedded Simple Tap™ technology plus Garibaldi, Echoflex's remote commissioning software
- Easy installation on electrical junction boxes with 1/2" nipple mount
- Energy code compliant

Ordering Information

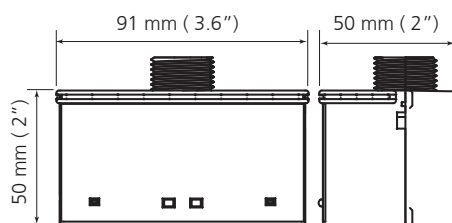
Description	902 MHz Model	902 MHz PN
Tunable White Dimming Controller, 1/2" Nipple Mount, 120-277VAC	ELED2-BU 120-277	8189A1140-X-1
Tunable White Dimming Controller, 1/2" Nipple Mount, 240-347VAC	ELED2H-AU 240-347	8189A1141-X-1

ELED2(H)

Wiring Diagram



Dimensional Diagrams



Equipment Profiles - Remote Devices Supported

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

Hardware Specifications

Power Supply	(ELED2)120-277VAC or (ELED2H)240-347VAC @ 50/60 Hz
Power Consumption	500 mW max
Inputs	LEARN and CLEAR buttons for sensor assignment
Outputs	2 Tri-Color LED indicators, Learn and Power
Maximum Dimming Load	0-10V with 100 mA sinking current
Safety Standards Maximum Load: Type and Rating	
Electronic Ballast or LED Driver	(ELED2) 20A @ 120-277VAC (ELED2H) 20A @ 240-277VAC
Electronic Ballast or LED Driver	(ELED2H) 16A @ 347VAC
Magnetic Ballast	(ELED2) 20A @ 120-277VAC (ELED2H) 20A @ 240-347VAC

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°C to 50°C (23°F to 122°F) ambient
Relative Humidity	5% to 93% RH (non-condensing)
Weight	14 oz (0.875 lbs)
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



Range Confirmation® is an Echoflex Solutions Inc. Patented Technology | Simple Tap™ is a trademark of Echoflex Solutions, Inc.
Specifications are subject to change without notification