

Overview

The Echoflex ELED3 is a wireless lighting controller designed for today's wide variety of LED fixtures. It includes 0-10 volt output channels for three dimming zones and a robust relay for ON/OFF control of the larger controlled space.

The ELED3 Tri-Zone dimming controller is ideal for spaces where multiple daylighting and / or dimming zones are required for energy code compliance. Typical applications include spaces with side lighting or skylights like open office areas, classrooms, boardrooms, and conference rooms.

The controller supports both open or closed-loop photo sensing applications assigning two outputs as daylighting channels. The primary daylighting channel includes a set point while the secondary daylighting channel uses an offset from set point, both values configurable. Using Simple Tap™, the primary daylighting channels set point can be quickly set based on the natural light in the space. The secondary channel will automatically lag the primary channels daylighting response providing consistent dimming across the day-lit area. The third channel always operates independently from the daylighting routine, as can all channels when daylighting is not required.

The controller is a nipple mount power-pack style controller operating lights based on room occupancy state, manual switch operation, ambient light level and gateway commands.

Intuitive application operation begins with automating lights on and off with occupancy when only sensors are linked. Energy code support is defined within factory default settings insuring out-of-box, nation-wide compliance.

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

The ELED3 is fully supported in Echoflex's pre-commissioning services when sold as a system.



Features

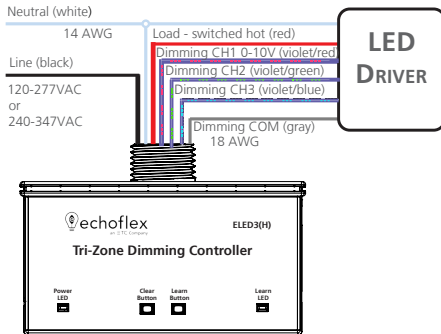
- Three outputs for 0-10V dimming control
- Multiple embedded preset values allow lighting scene recall
- Lockout feature allows masking of sensor inputs based on time-of-day events
- Robust relay for whole room control (20A @ 120-277VAC ; 16A @ 347VAC)
- Integrated dual daylighting zone control
- Occupancy control with auto-ON/OFF or vacancy control with manual ON, auto-OFF
- Central Command support for BEMS gateway control
- Pre-commissioning comes standard when sold as a complete system through Echoflex
- Range Confirmation® allows optimal placement of linked Echoflex sensors
- Easy in-field configuration methods include embedded Simple Tap™ technology plus Garibaldi, Echoflex's remote commissioning software
- Easy installation on electrical junction boxes with 1/2" nipple mount
- Doubles as a telegram repeater
- Energy code compliant

Ordering Information

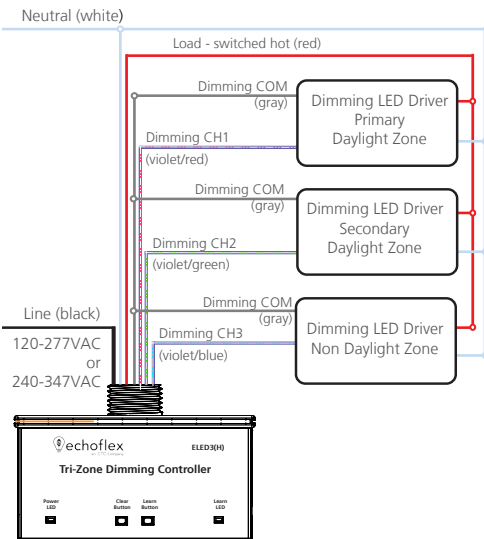
Description	902 MHz Model	902 MHz PN
Tri-Zone Dimming Controller, 1/2" Nipple Mount, 120-277VAC	ELED3-BU 120-277	8189A1135-X-1
Tri-Zone Dimming Controller, 1/2" Nipple Mount, 240-347VAC	ELED3H-AU 240-347	8189A1136-X-1

ELED3(H)

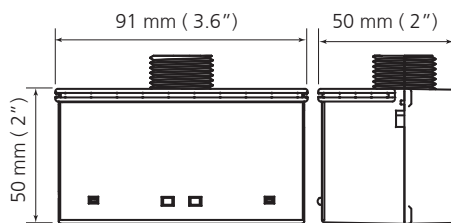
Wiring Diagram



Functional Diagram



Dimensional Diagrams



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 - ambient light intensity, various ranges, with supply voltage
EEP: A5-07-01/02	Occupancy Sensor - with supply voltage
EEP: A5-07-03	Occupancy Sensor - with supply voltage and 10-bit light level
EEP: A5-37-01	Energy Management - Demand Response
EEP: A5-38-08	Central Command - switching, dimming, set point
EEP: D2-14-25	Light Sensor and CCT - light intensity and color temperature

Hardware Specifications

Power Supply	(ELED3)120-277VAC OR (ELED3H)240-347 VAC @ 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	(ELED3) 20A @ 120-277VAC (ELED3H) 20A @ 240-277VAC
Electronic Ballast or LED Driver	(ELED3H) 16A @ 347VAC
Magnetic Ballast	(ELED3) 20A @ 120-277VAC (ELED3H) 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



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