

Overview

The ELEDR Power Load Controller is a versatile device that can be used in a variety of switching applications. The integral relay can be used to switch circuits for lighting, motor, receptacle, or general purpose loads.

The controller switches the load with received input from linked wireless devices; switches, sensors or gateways. The controller activates loads based on:

- room occupancy state
- ambient light level
- time-clock scheduled events
- BEMS or network commands
- wall switch stations

The controller delivers process control for circuit or fan control applications eliminating long wire runs.

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

Echoflex ELED products now 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.

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

The controller is compatible with all Echoflex sensors equipped with Range Confirmation® technology providing visual feedback of the radio signal strength to ensure optimal sensor placement.

The ELEDR is fully supported in Echoflex's pre-commissioning services when sold as a system. Echoflex also provides in-field software tools for configuring and verifying controller operation once installed.



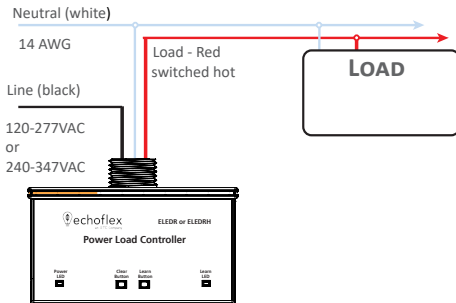
Features

- Single relay control output (20A @ 120-277VAC ; 16A @ 347VAC)
- Motor load ratings of: 1.5 hp @120V or 3 hp @277V
- Occupancy control with auto-ON/OFF or vacancy control with manual ON, auto-OFF
- Use with wireless battery-free wall switches, photo sensors, occupancy sensors and gateways
- Central Command support for BEMS gateway control
- Lockout feature allows masking of sensor inputs based on time-of-day events
- 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
Power Relay Controller, 1/2" Nipple Mount, 120-277VAC	ELEDR-AU 120-277	8189A1145-X-1
Power Relay Controller, 1/2" Nipple Mount, 240-347VAC	ELEDRH-AU 240-347	8189A1146-X-1

Wiring Diagram



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
EEP: A5-07-01/02	Occupancy Sensor - with supply voltage
EEP: A5-37-01	Energy Management - Demand Response
EEP: A5-38-08	Central Command - switching, dimming, set point

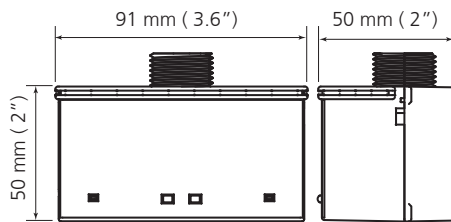
Hardware Specifications

Power Supply	(ELEDR) 120-277VAC or (ELEDRH) 240-347VAC @ 50/60 Hz
Power Consumption	500 mW max
Inputs	LEARN and CLEAR buttons for sensor assignment
Outputs	2 LED indicators, Learn and Power (red)
Motor Load Rating	1.5 HP@120VAC; 3.0 HP@277VAC - as non-shared load
Safety Standards Maximum Load: Type and Rating	
Electronic Ballast or LED Driver	(ELEDR) 20A @ 120-277VAC (ELEDRH) 20A @ 240-277VAC
Electronic Ballast or LED Driver	(ELEDRH) 16A @ 347VAC
Magnetic Ballast	(ELEDR or ELEDRH) 20A @ 120-347VAC

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

Dimensional Diagrams



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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Specifications are subject to change without notification