

Overview

The Power Load Controller is a versatile control device that can be used in a large number of applications. As a lighting controller, it provides: on/off lighting, timed light switch, daylight harvesting, photo inhibit, occupancy based or vacancy based lighting control.

The controller activates electrical loads with received input from a linked sensor or switch. The controller acts on transmissions of:

- ambient light levels monitored by an wireless photo sensor
- occupancy/vacancy state monitored by a wireless occupancy sensor
- switch action from a wireless single or dual paddle wall switch, a wireless key card switch or a wireless door/window switch
- switch action from a gateway control implementing schedules or other events

The controller can be used in distributed process applications to eliminate troublesome wiring runs using linked wireless electrical switches. A low voltage or line voltage event can be transmitted to the load controller triggering the dry-contact relay connected to any electrical load.

The load controller fits equally as well into hospitality applications. Responding to linked key card switches that monitor suite occupancy, control can be added to lighting or other electrical circuits to disable the loads when the suite is vacant. The controller can also be used to enable and disable air-conditioning equipment based on the occupancy state and/or patio door position.

Other features include telegram repeating and BEMS system integration allowing the controller to be used both in distributed control applications or as a component of a centralized system.

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

Echoflex offers pre-linking and pre-commissioning on all products sold as a system through Echoflex. In addition to this service, Echoflex provides several methods of configuring and verifying controller operation once installed on-site:

1. Use the linked sensors and Simple Tap™ to make quick changes to individual controllers.
2. Use Smart Click® to access more configuration parameters using a linked switch.
3. To access the full menu of configuration parameters, Echoflex's Garibaldi software is a PC based tool that includes hands-free commissioning.



Features

- Use for controlling lighting or HVAC circuits or any miscellaneous electrical load
- Occupancy/Vacancy based lighting controls with auto-ON/OFF or manual ON, auto-OFF using wireless occupancy sensors
- Daylight harvesting and photo-inhibit modes
- Monitors linked battery-free wall, key card and proximity (reed) switches, photo sensors and occupancy sensors
- Pre-linking and Pre-commissioning available when sold as a system through Echoflex
- Range Confirmation® allows optimal placement of linked sensors - (Echoflex sensors with Range Confirmation® feature only)
- Central Command support for BEMS gateway control
- Easy commissioning options such as Smart Click®, Simple Tap™ or Garibaldi (remote management) software
- Assign up to 20 battery-free wireless wall switches or sensors to one controller
- Reliable radio reception range of 24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight
- Low-cost alternative to running wires and conduit - ideal for retrofit projects
- Easy installation on electrical junction boxes with 1/2" mounting nipple
- Doubles as a telegram repeater
- CEC - Title 24 Compliant

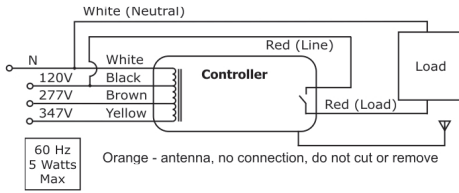
Ordering Information

Description	902 MHz Model	902 MHz PN
Power Load Controller, 120/277/347 VAC	ER1C-FLU-120/277/347	8189A1113-X-1

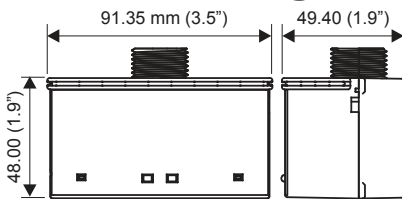


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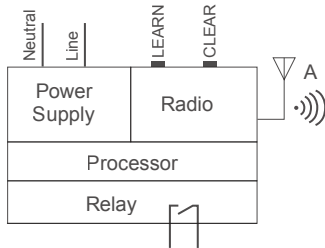
Wiring Diagram



Dimensional Diagram



Block Diagram



Equipment Profiles - remote devices supported

EEP: F6-02-02	Light and Blinds Control
EEP: A5-06-02	Light Sensor [range 0 - 1024 lux]
EEP: A5-07-01	Occupancy Sensor
EEP: F6-04-01	Key Card Activated Switch
EEP: A5-30-02	Single Input Contact (doors and windows)
EEP: A5-38-08	Central Command, switching (0x01), set point (0x03)
EEP: A5-10-0A/0B	Room Operating Panel
EEP: D5-00-01	1BS Contact and Switches

Hardware Specifications

Power Supply	120/277/347 VAC, 60 Hz
Power Consumption	5.0 W max. full load
Outputs	N.O. Relay rating 20A@120 or 277 VAC, 15A@347VAC

Communications

Radio Frequency	902 MHz
Antenna	Whip
Transmission Range	24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight
Inputs	LEARN and CLEAR buttons for sensor assignment

Mechanical Specifications

Operating Temperature	-10° C to 45° C (14° F to 113° F) ambient
Relative Humidity	5% to 95% RH (non-condensing)
Weight	385 g (13.5 oz)
Dimensions	91 x 48 x 49 mm (3.6 x 1.9 x 1.9")
Mounting	½" nipple

Agency Listing & Compliance

CEC Title 24 compliant

Safety

ETL Listed Component
 Conforms to UL Standard 508
 Certified to CAN/CSA Std. C22.2 No.14
 UL 2043 Plenum rated

Radio Frequency (902 MHz)

FCC Part 15.231 -Remote Control Transmitter
 IC RSS-210



Smart Click and Range Confirmation are Echoflex Solutions, Inc. Patented technologies | Simple Tap is a trademark of Echoflex Solutions, Inc. Specifications are subject to change without notification | Document 8DC-0454 | Revision 1.5



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