

Overview

The Split Duplex Receptacle Outlet Controller provides a simple solution to meet energy codes without requiring complex changes to a facility. The controller can retrofit your existing duplex receptacles simply and quickly, without the need for new wiring. The controller offers a duplex receptacle with a 15-amp relay-switched outlet and a 15-amp constant-power outlet. Its auxiliary output allows for additional standard outlets to be controlled by its internal relay. Compatible with Echoflex occupancy sensors, the outlet can be switched based on room occupancy, helping to meet the most stringent ASHRAE and California energy codes. The Split Duplex Controller mounts in a standard electrical box and will accept a decorator style face plate (not included).

Arrow shaped LEDs provide permanent marking of the control outlet and users can choose to have the LEDs turned off.

The controller activates electrical loads with received input from a linked sensor or switch transmitting:

- Ambient light levels monitored by a wireless photo sensor
- Occupancy state monitored by a wireless occupancy sensor
- Switch action from a wireless single or dual paddle wall switch
- Switch action from a wireless key card switch
- Switch action from a wireless door/window (reed) switch
- Gateway control implementing schedules or other events

The Split Duplex 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.

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.



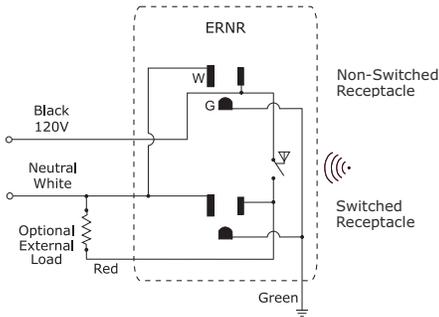
Features

- Use for controlling plug-in electrical loads
- Occupancy based automation with auto-ON/OFF or manual ON + auto-OFF using wireless occupancy sensors
- Monitors linked battery-free key card, proximity (reed) switches, wall switches, occupancy sensors and photo sensors.
- Range Confirmation® allows optimal placement of linked sensors -(Echoflex sensors with Range Confirmation® feature only)
- Central command support for BEMS gateway control
- Supports commissioning via 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
- Doubles as a telegram repeater
- Single-channel 15A relay and 15A constant-power outlets
- 120V power input
- ETL and cETL Listed
- Complies with FCC Part 15.231 and IC RSS-210
- Tamper resistant receptacles

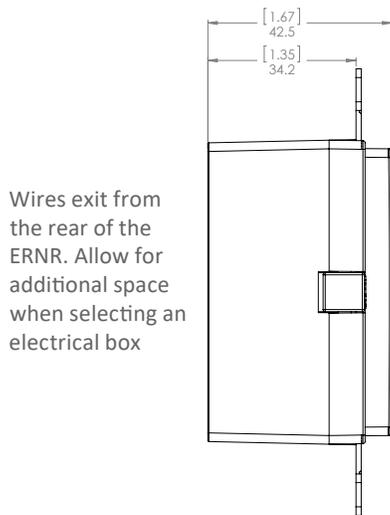
Ordering Information

Description	902 MHz Model	902 MHz PN
Split Duplex Controller - White	ERNR-AIU	7189A1409
Split Duplex Controller - Black	ERNR-AIUB	7189A1409-4

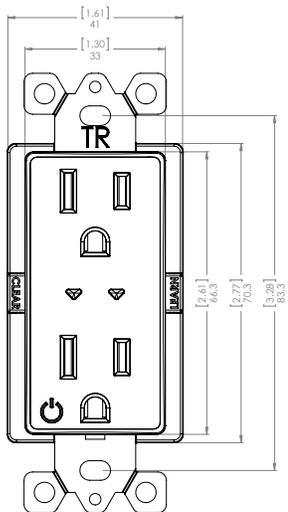
Wiring Diagram



Dimensional Diagram



Wires exit from the rear of the ERNR. Allow for additional space when selecting an electrical box



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), setpoint (0x03)
EEP: A5-10-0A/0B	Room Operating Panel
EEP: D5-00-01	1BS Contact and Switches

Hardware Specifications

Power Supply	120VAC
Power Consumption	2.5 W max. full load
Outputs	N.O. Relay rating 15A@ 120VAC 2 x LEDs, Learn (green) and Power (red)
Inputs	LEARN and CLEAR buttons for sensor assignment
Maximum Load Ratings	15A @ 120VAC

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	-10 °C to 45 °C (14 °F to 113 °F) ambient
Relative Humidity	5% to 95% RH (non-condensing)
Weight	118 g (4.2 oz)
Dimensions	41.0 x 70.3 x 42.5 mm (1.61 x 2.77 x 1.67") Wires exit from the rear of the ERNR. Allow for additional space when selecting an electrical box

Agency Listing & Compliance

Safety

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



Radio Frequency (902 MHz)

FCC Part 15.231 - Remote Control Transmitter
IC RSS-210



Range Confirmation and Smart Click are Echoflex Solutions, Inc. Patented technologies | Simple Tap is a Trademark of Echoflex Solutions, Inc. Specifications are subject to change without notification | Document 8DC-0543 | Revision 1.7

