WIRELESS COMPLETE ROOM CONTROLLER

ERDRC-EC

Overview

Today's building owners are seeking solutions to drive down their facilities energy footprint without enduring the expense and disruption of installing a networked automation system.

Echoflex answers this need with the Complete Room Controller that operates on two simple principles:

- If the space is vacant, turn the lights off.
- If there is sufficient outdoor ambient light, turn the lights down.

Echoflex's lighting controllers use wireless technology to monitor the room's environment, eliminating much of the wiring normally required for this level of distributed control. This translates into quick installations with less disruption to occupants, allowing facilities to accelerate retrofit schedules and start saving money sooner.

The lighting controllers have Echoflex's Smart Click Technology which allows installers and facility operators to manage configuration settings without any tools, reducing call-backs and installation expense.

All Echoflex's wall switches and sensors are developed using low powered wireless technology which means no batteries are required. By harvesting energy from the surrounding environment for power, these devices eliminate the maintenance burden of replacing and disposing of batteries.

Start taking control of your facilities energy by addressing wastage through unnecessary lighting. With Echoflex lighting controllers and battery-free wireless sensors, the decision to dim or shut lights off becomes dependent upon positive control and not on user intervention.

Features

- Lighting circuit control with dimming ballast control output
- Embedded Smart Click and Simple Tap configuration for fast and easy commissioning
- Occupancy based lighting controls with auto- ON/OFF or manual ON, auto-OFF
- Integrated day-light harvesting control
- Listens for battery-free wall switches, photo sensors and occupancy sensors
- Near-cross switching technology for long relay life
- Easy installation on electrical junction boxes with 1/2 " mounting nipple
- Broadcasts controller status to BEMS gateways
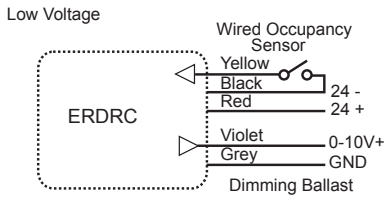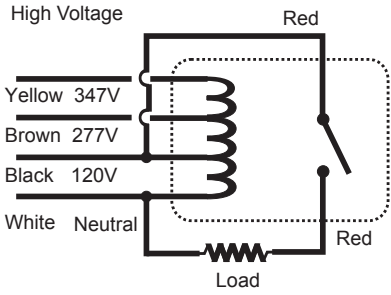- Doubles as a telegram repeater
- CEC - Title 24 Compliant

Ordering Information

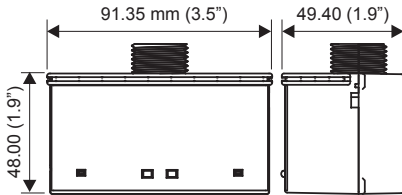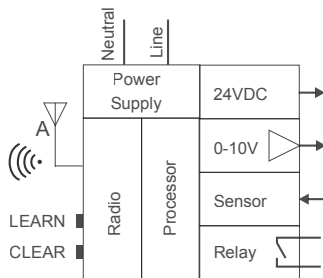| Model	Description	Part # - 315 MHz	Part # - 868 MHz
ERDRC-EC(*)-120/277	120/277VAC Complete Room Controller	001-1204 * = C	001-6204 * = Y
ERDRC-EC(*)-120/347	120/347VAC Complete Room Controller	001-1216 * = C	001-6216 * = Y

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ERDRC-EC

Wiring Diagram

High Voltage

Red
Yellow 347V
Brown 277V
Black 120V
White Neutral
Red
Load

Low Voltage

Wired Occupancy Sensor
Yellow
Black 24 -
Red 24 +
ERDRC
Violet 0-10V+
Grey GND
Dimming Ballast

Dimensional Diagram

91.35 mm (3.5") 49.40 (1.9")
48.00 (1.9")

Block Diagram

Neutral
Line
Power Supply
24VDC
A
0-10V
Radio
Processor
Sensor
LEARN
CLEAR
Relay

Equipment Profiles - remote devices supported

EEP: F6-02-02   Light and Blinds Control - US/Canada application
EEP: A5-06-02   Light Sensor -Range 0 - 1024 lux (~0-100 fc)
EEP: A5-07-01   Occupancy Sensor

Application Settings

Timed Switch: time-out period	0 (default), 5, 15, 30, 60 minutes
Occupancy Sensor: egress timer	5, 10, 15 (default), 20, 25 minutes

Hardware Specifications

Power Supply   120/277 VAC or 120/347 VAC, 60 Hz
Power Consumption   5.0 W max. full load
Power Output   24 VDC @ 35 mA
Input   24VDC input
Outputs   N.O. Relay rating 20A@120 or 277 VAC, 15A@347VAC; 0-10 VDC @ 25mA maximum

Communications
Radio Frequency   315 MHz(C), 868 MHz(Y)
Antenna   Whip
Transmission Range   24 m (80 ft) - commercial office space (typical)
Inputs   LEARN and CLEAR buttons for sensor assignment

Mechanical Specifications

Operating Temperature	-10 ° C to 45 ° C (14 ° F to 113 ° F)
Relative Humidity	5% to 95% RH (non-condensing)
Weight	385 g (13.5 oz)
Dimensions	91.35 x 48.00 x 49.40 mm (3.5 x 1.9 x 1.9")
Mounting	½ " nipple

Listings

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 (315 MHz models)
   FCC   Part 15.231 -Remote Control Transmitter
   IC   RSS-210

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