

## Overview

The Active Circuit Transmitter (ERM-DA) indicates when an electrical circuit is active by transmitting a standard occupancy profile telegram. The state of the monitored circuit can be used to switch or trigger remote events.

Retrofit applications will benefit from the elimination of extra wiring.

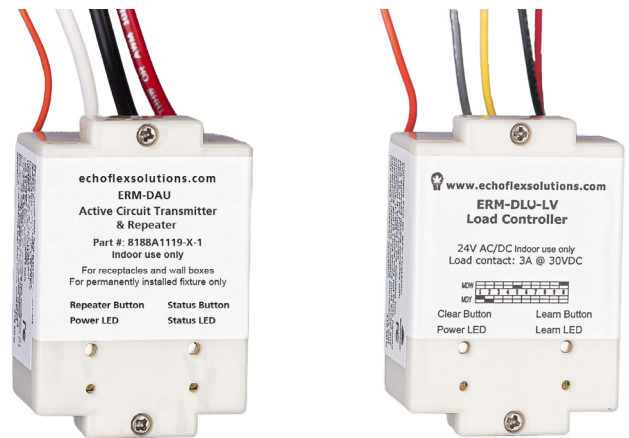
Used in a hospitality application, existing key card systems activate circuits based on suite occupancy.

Using the transmitter with these systems allows the facility to gain control over other electrical loads. Suite vacancy can de-energize plug-in appliances like televisions or turn lights off. Wired-in systems such as window blinds can retract to a preset, reducing solar and infrared radiation into the suite.

Other commercial facilities can benefit by adding a transmitter to electrical circuits controlled by other automation systems, processes or switches. Using the device to transmit circuit status can trigger other processes or turn ON or OFF electrical loads, making it easy to expand automation systems or automate manual processes.

The transmitter installs in electrical junction boxes, behind receptacles, wall switches or in light fixtures and is powered by 120VAC (24VAC/DC models also available). Assignment of the transmitter to a receiver is as easy as pressing a button.

The transmitter can be used as a telegram repeater increasing the radio range of neighboring Echoflex devices.



## Features

- Uses the state of an electrical circuit as a switch to activate loads ON or OFF
- Expand existing automation systems or quickly; add automation to any electrical circuit
- Use with lighting controllers or wall mount thermostat controllers
- Supports telegram repeating; single or dual hop increasing the range of near-by Echoflex devices
- 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
- Versatile voltage range 120 VAC or 24VAC/DC models
- Available with 902 MHz or 868 MHz radios

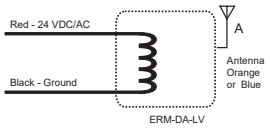
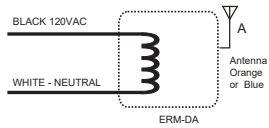
## Ordering Information

Description	902 MHz Models	902 MHz PN	868 MHz Models	868 MHz PN
Active Circuit Transmitter & Repeater 120VAC	ERM-DAU	8188A1119-X-1	ERM-DAY	8188A1319-X-1
Active Circuit Transmitter & Repeater 24VAC/DC	ERM-DAU-LV	8188A1123-X-1	ERM-DAY-LV	8188A1323-X-1

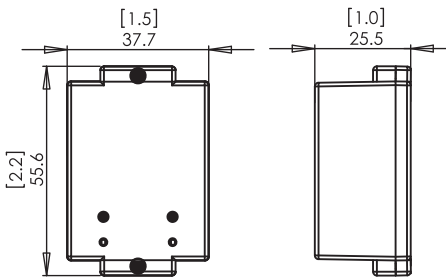


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## Wiring Diagram

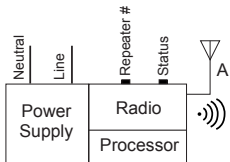


## Dimensional Diagram



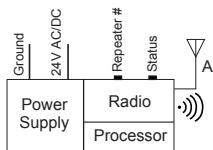
## Block Diagram

### High Voltage ERM-DA



### Low Voltage ERM-DA

ERM-DA-LV



## Equipment Profiles - Transmits

EEP: A5-07-01

Occupancy Sensor

## Hardware Specifications

<b>Power Supply</b>	ERM-DA(*): 120VAC, 50/60Hz ERM-DA(*)-LV: 24V AC/DC
<b>Power Consumption</b>	120VAC versions: 1.0 W 24V versions: 600mW
<b>Outputs</b>	2 x LEDs, Learn (green) and Power(red)
<b>Inputs</b>	Repeater and Status buttons

## Communications

<b>Radio Frequency</b>	902 MHz(U) or 868 MHz(Y)
<b>Antenna</b>	Whip
<b>Transmission Range</b>	24 m (80 ft) - commercial office spaces(typical), up to 100m (330 ft) line of sight

## Mechanical Specifications

<b>Operating Temperature</b>	-10 ° C to 40 ° C (14 ° F to 104 ° F ) ambient
<b>Relative Humidity</b>	5% to 95% RH (non-condensing)
<b>Weight</b>	56.7 g (2 oz)
<b>Dimensions</b>	55.6 x 37.7 x 25.5 mm (2.2 x 1.5 x 1.0")

## Agency Listing & Compliance

Safety (120VAC only)

ETL Listed Component

Conforms to UL Standard 508

Certified to CAN/CSA Std. C22.2 No.14

Radio Frequency (902 MHz models)

FCC Part 15.231 -Remote Control Transmitter

IC RSS-210



Specifications are subject to change without notification.