

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 120 through to 277 VAC (90-240VAC and a 24VAC/DC models are 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 through to 277VAC or 24VAC/DC model
- 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 120 - 277VAC	ERM-DAU-277	8188A1119-X-1	ERM-DAY-277	8188A1319-X-1
Active Circuit Transmitter & Repeater 24VAC/DC	ERM-DAU-LV	8188A1123-X-1	ERM-DAY-LV	8188A1323-X-1

Wiring Diagram

High Voltage ERM

BLACK 120-277V
or 90-240V

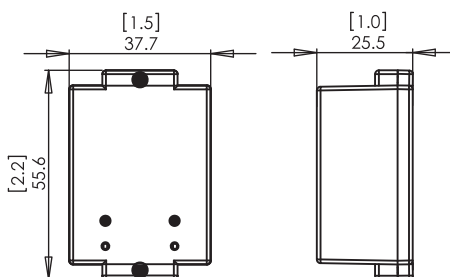
WHITE - NEUTRAL

Low Voltage ERM

Red
24V AC/DC

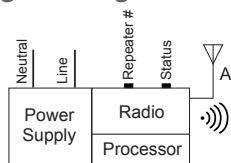
Black
Ground

Dimensional Diagram



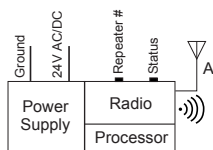
Block Diagram

High Voltage ERM-DA



Low Voltage ERM-DA

ERM-DA-LV



Equipment Profiles - Transmits

EEP: A5-07-01

Occupancy Sensor

Hardware Specifications

Power Supply	ERM-DA(*)-277: 120-277VAC, 50/60Hz ERM-DA(*)-LV: 24V AC/DC ERM-DA(*)-90: 90-240VAC, 50/60 Hz
Power Consumption	90-277 versions: 1.0 W 24V versions: 600mW
Outputs	2 x LEDs, Learn (green) and Power(red)
Inputs	Repeater and Status buttons

Communications

Radio Frequency	902 MHz(U) or 868 MHz(Y)
Antenna	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 40 ° C (14 ° F to 104 ° F) ambient
Relative Humidity	5% to 95% RH (non-condensing)
Weight	56.7 g (2 oz)
Dimensions	55.6 x 37.7 x 25.5 mm (2.2 x 1.5 x 1.0")

Agency Listing & Compliance

Safety (90-240 and 120-277V)

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.