

## Dimming Signal Transmitter



## Overview

Two-channel interface for wireless switching and dimming of tambient uplights with integral Casambi Bluetooth wireless controllers. Connects to standard 0-10VDC lighting control devices and control systems. Use the free Casambi mobile app to add the CDT-CA-03 dimming transmitter to a Casambi network consisting of Casambi-enabled tambient lights. Then, use the app to configure each channel of the CDT-CA-03 to control the uplight in a single tambient luminaire in the network, or to simultaneously control all of the uplights in a specified group of tambient luminaire.

## Features

- 1/2" nipple facilitates mounting to electrical junction box
- Works with all third-party 0-10V analog dim-to-OFF lighting control devices and systems
- Self-healing mesh network technology assures communication with remote fixtures in complex spaces
- Administrator and operator password protection limits access to configurations and settings
- Eliminates control wiring to and between lights; allows for future reconfiguration without re-wiring

## Specifications

**Input (power):** 120-277VAC, 60Hz

**No-load input current:** 1.0 watt

**Input (control):** 2-wire analog, 0-10VDC, two channels

**Communications:** Bluetooth 2.401-2.483 GHz / Casambi®

**Transmission range:** 30ft indoor (15m)

**Installation:** 1/2" threaded nipple

**Operating temperature:** -13°F to 113°F (-25°C to 45°C)

**Relative humidity:** 0% to 80% RH (non-condensing)

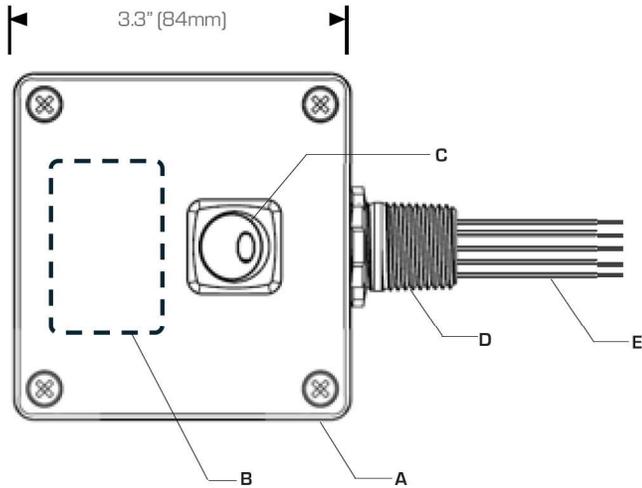
**Weight:** 13.5 oz. (383 grams)

**Agency listing:** FCC, IC

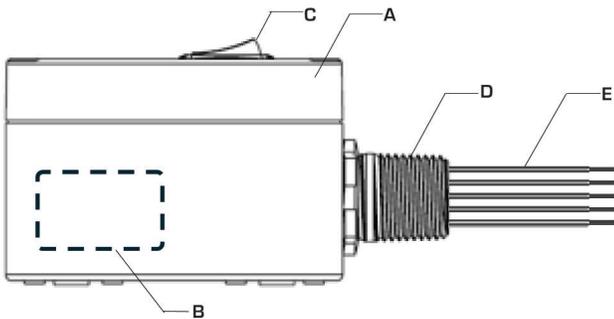
**Warranty:** 2 years

## Dimming Signal Transmitter

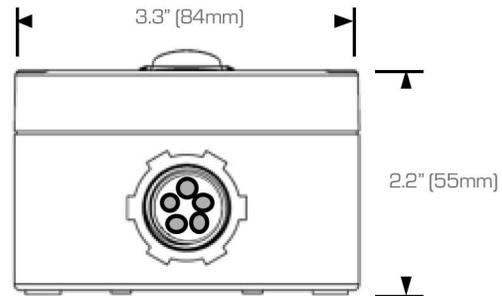
Top View



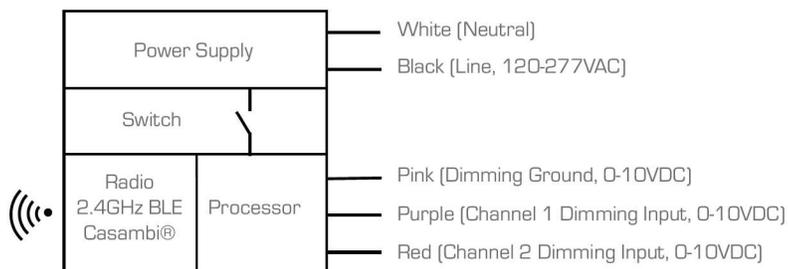
Side View



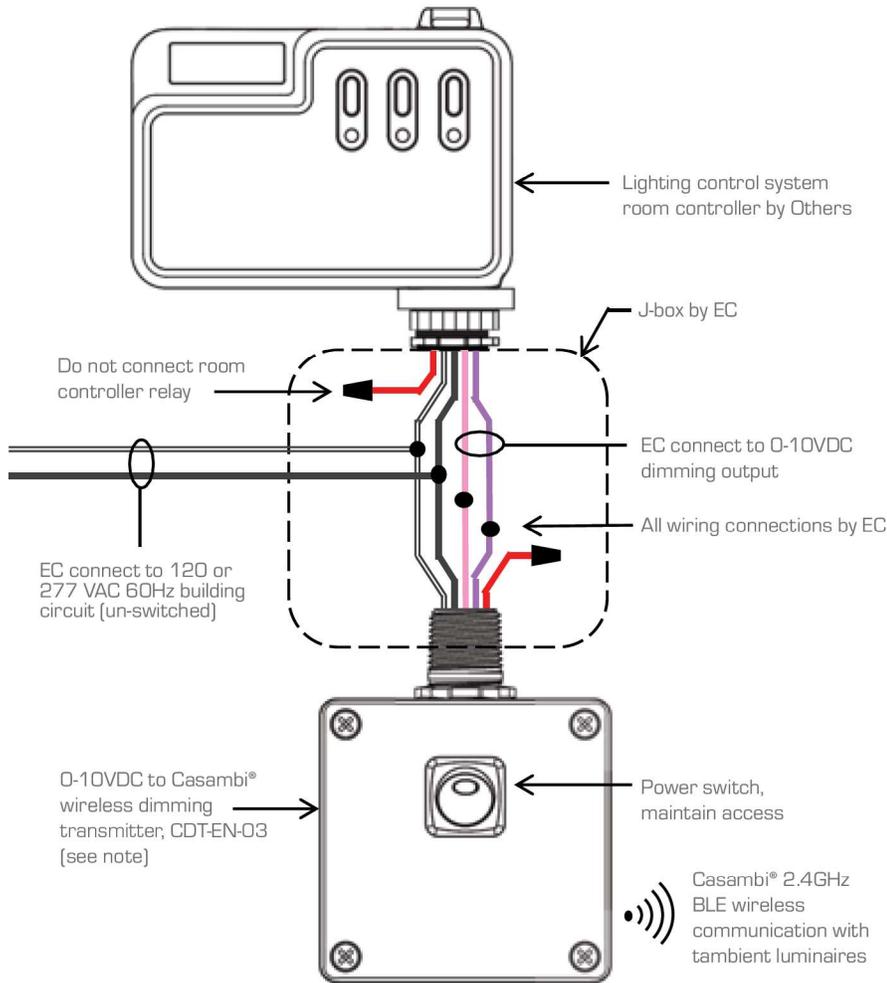
End View



Block Diagram



## Dimming Signal Transmitter

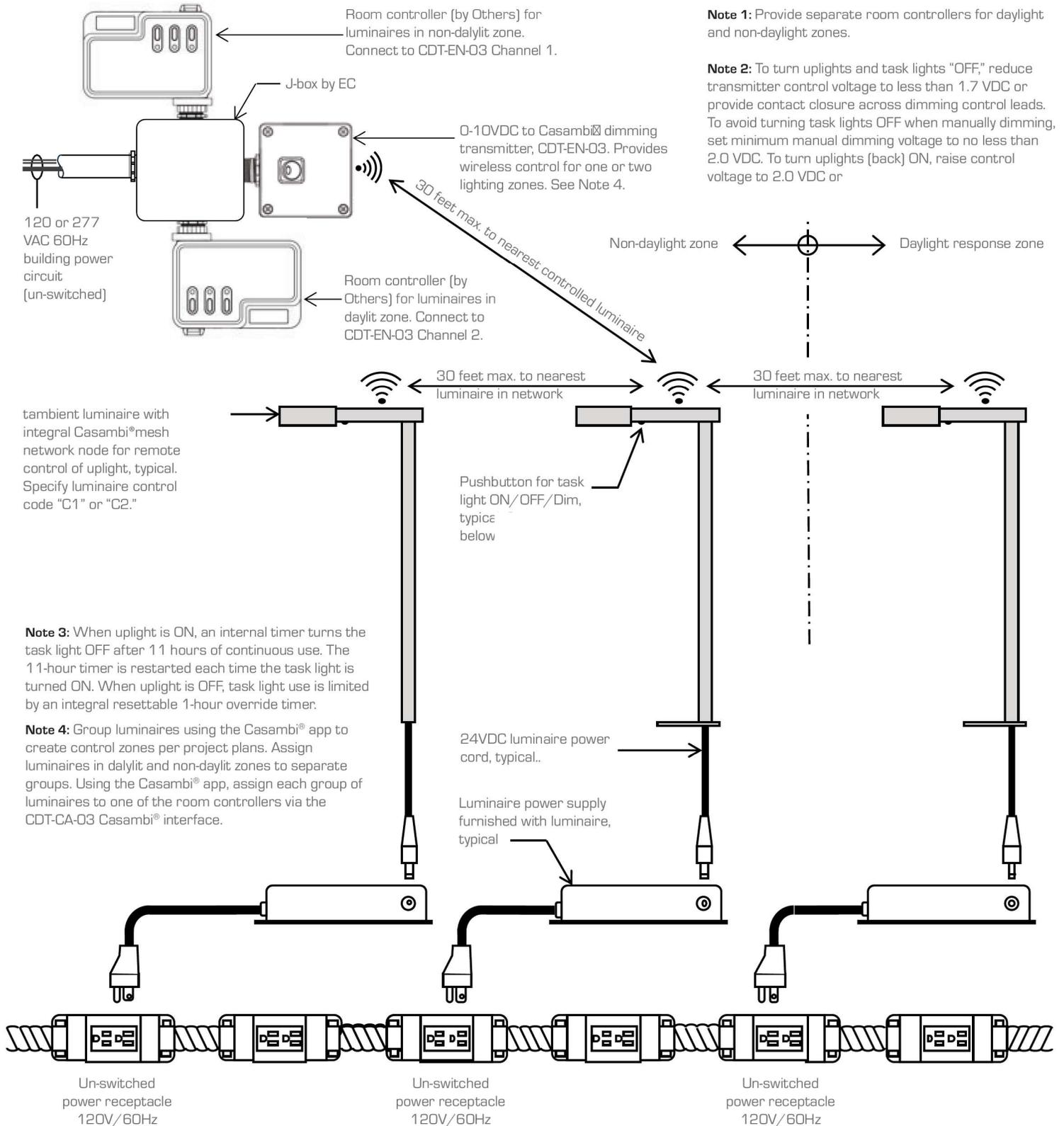


**Note:** Install within 30 feet of nearest controlled tambient luminaire. Avoid metal and masonry barriers.

**Wiring Diagram – Single Zone Control**



## Dimming Signal Transmitter



**Note 1:** Provide separate room controllers for daylight and non-daylight zones.

**Note 2:** To turn uplights and task lights "OFF," reduce transmitter control voltage to less than 1.7 VDC or provide contact closure across dimming control leads. To avoid turning task lights OFF when manually dimming, set minimum manual dimming voltage to no less than 2.0 VDC. To turn uplights (back) ON, raise control voltage to 2.0 VDC or

**Note 3:** When uplight is ON, an internal timer turns the task light OFF after 11 hours of continuous use. The 11-hour timer is restarted each time the task light is turned ON. When uplight is OFF, task light use is limited by an integral resettable 1-hour override timer.

**Note 4:** Group luminaires using the Casambi® app to create control zones per project plans. Assign luminaires in daylight and non-daylit zones to separate groups. Using the Casambi® app, assign each group of luminaires to one of the room controllers via the CDT-CA-03 Casambi® interface.