

Casambi Ecosystem Products: Lighting Controls

Zone Controller

Casambi Ready 0-10v Room Controller

- 100-277VAC Input Voltage
- 0-10v Output to LED Driver
- Relay with Zero-Crossing
- Active High Output for Relay Drive
- 12V aux Power (PSC-WCM-450-BLE-CB)

Tunable White Controller

CBU-A2D
Bluetooth controllable 2ch 0-10V/DALI controller

CBU-A2D is a Bluetooth controllable, Casambi enabled 2 channel 0-10V/DALI controller. CBU-A2D has a universal 100-277VAC input voltage range.

CBU-A2D can control one or two 0-10V controllable LED drivers, or can control a tunable white LED driver with two 0-10V control interfaces. The product can also be configured into a DALI mode when it can be connected to a DALI LED driver or DALI sensor for presence and/or daylight harvesting functions.

0-10v Fixture Controller

CBU-ARP
Bluetooth controllable 0-10v controller with relay

CBU-ARP is a Bluetooth controllable, Casambi enabled one channel 0-10v controller with built-in 2.5 A relay and a motion sensor input.

CBU-ARP is designed to control a single 0-10V LED driver. If the LED driver cannot be turned completely off from the 0-10V control interface, CBU-ARP has a built-in 2.5 A relay for cutting the power from the driver. It also has a 12-24VDC input for motion sensor. The sensor must be powered by an external power supply such as mains voltage or auxiliary voltage from an LED driver. The 0-10V output can also be configured as DALI interface which allows for much richer feature set, such as controlling multi-channel LED driver (up to five channels) and reading diagnostic information from the driver.

Casambi Ecosystem Products: Switches & Sensors

PIR OCC/VCC Sensor

Casambi Read Low Voltage PIR Sensor

- Quad Element PIR sensor
- LED Motion indicator
- Active High/Low outputs for Relay drive
- Mounting height up to 12ft (3.6m).
- 360° coverage pattern
- Bluetooth add-on enables remote sensor programming with greater customization time delay

PIR Wide View/Hallway Sensor

Casambi Ready Wide View/Hallway Sensor

Wide view and hallway occupancy sensors enable mounting to a wall, corner, junction box, or ceiling. This flexibility makes sensor installation time and provides a secure and clean finished appearance.

products utilize the latest passive infrared technology and digital signal processing techniques to provide enhanced detection performance. Additionally, these units are available with an integrated microphone to provide voice-activated occupancy detection for rooms with restrictions or where occupant motion will be limited.

Kinetic Switch

Casambi enabled EnOcean Kinetic Switches

- Bluetooth BLE Single or Double Rocker
- Wireless Switch - White (more colors available)

- Mount switches anywhere
- Create 3-way and 4-way switches
- Control lights, fans, or other electrical loads
- Reconfigure or relocate as needed

Code Compliance

C405.2.1.3	Occupancy Sensors in Open Office
C405.2.1.4	Occupancy Sensor in Corridors
C405.2.2	Timeswitch Controls
C405.2.1.1.2	Manual or Partial On

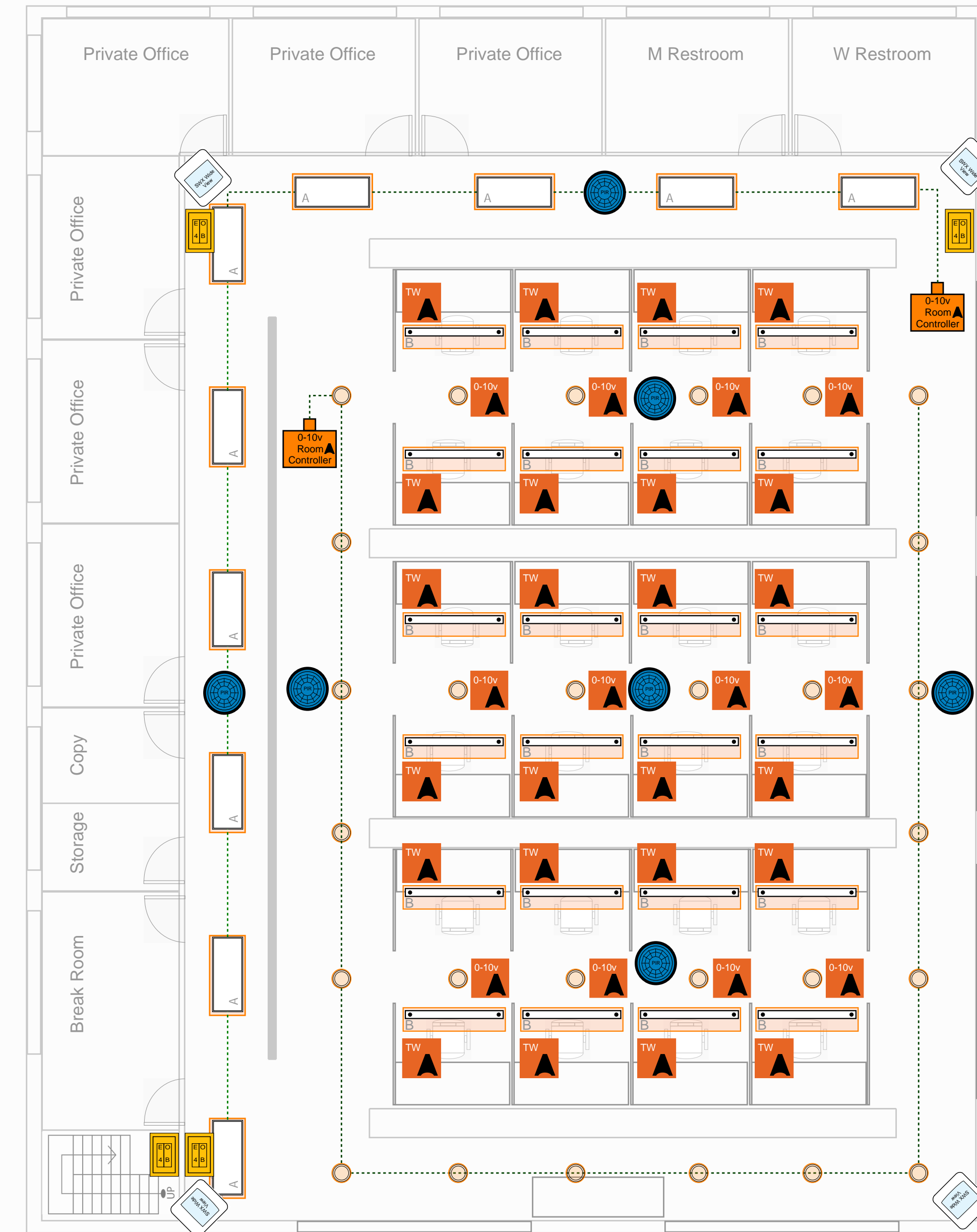
Design Considerations

1. Fixture Level Control in Open Office area allows for maximum flexibility of Lighting Design
2. OCC for granular groups/zones configured via software
3. Zone Controllers for Corridors/Perimeter zones that do not need Fixture Level Control.

Sequence of Operations Example:

1. Auto-on based on Timer/Schedule
2. Auto-off in granular groups/zones via OCC Sensor
3. Reconfigure Open Office Space/Zones/Groups on the fly
4. Light reduction/Auto-off via OCC/VCC in Corridors.

Floor plan/layout



Applications

Tunable White

Adjust Red/Green/Blue/White channels on RGBW Fixtures for use in Scenes/Buttons/Sensors/Timers

Calendar & Timer

Control Scenes, Groups, Fixtures, Sensors & More based on the Time of Day, Day of the week, or time of the year.

OCC/VAC

Programmable OCC and VAC sensors to control Fixtures/Zones/Groups/Scenes

Luminaire Level Control

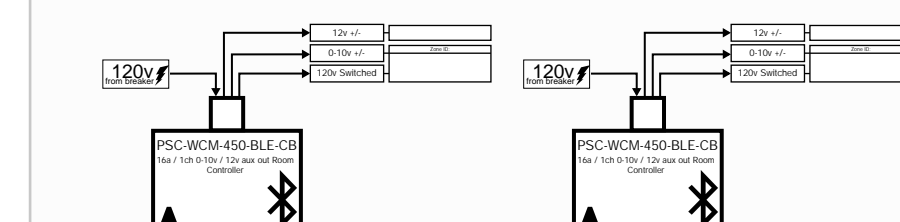
Luminaire Level Lighting Control
Individual control of each lighting fixture for granular control of scenes and groups all via the software (no need to re-wire)

Zone Level Control

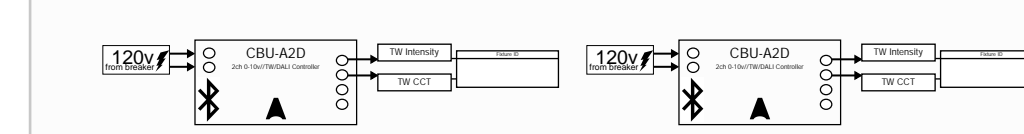
Hardwired Zone level Room/area controllers for 0-10v/Phase/PWM
Multiple options for input/output and sensor & Aux connections

Single-Line

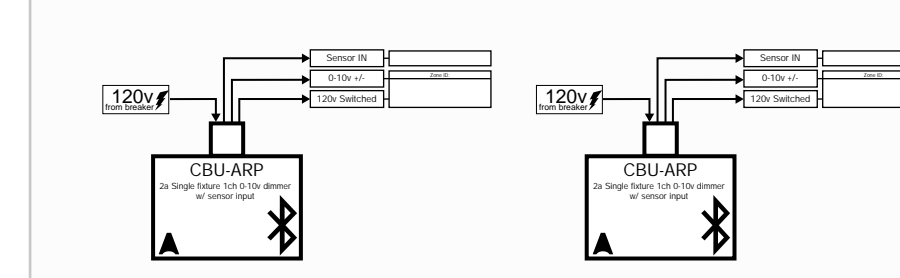
Corridors/Perimeters - 0-10v Zone



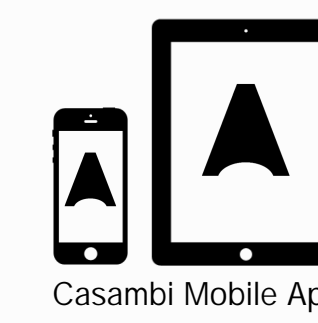
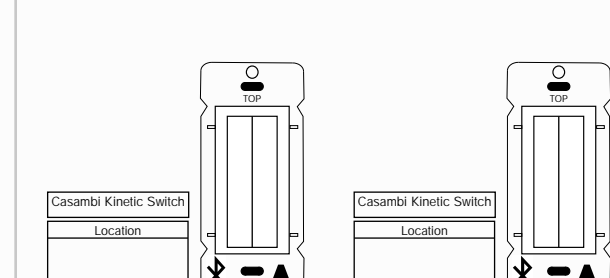
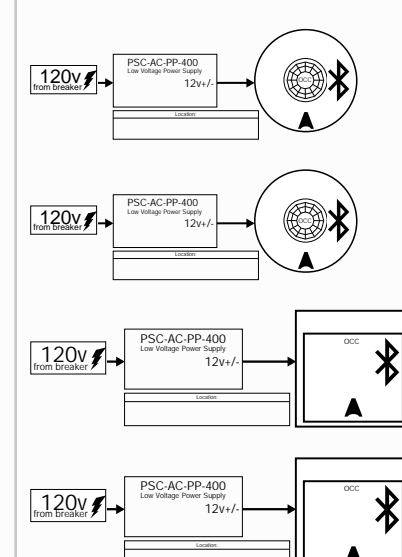
Tunable White - Fixture Control



0-10v - Fixture Control



Sensors & Switches



Detailed Wiring

0-10v Dimming w/ 2 Ch.

Typical PIR LV Sensor w/ Power pack/supply
PSC-ND4-DM-DC-BLE-CB & PSC-AC-PP-400

Wall mount Side View Hallway PIR Sensor (SWX-402-1-CB) & Power Supply (PSC-AC-PP-400)

PSC-WCM-450-BLE-CB 1ch Single Channel 0-10v w/ HV Switch Leg & 24v Aux Output (Zone Control)

CBU-ARP w/ HV Switch Leg 0-10v Single Channel