



## Casambi CBU-A2D

### Bluetooth controllable 2-channel 0-10v & DALI controller



#### Features & Benefits:

- Universal 100-277vac input voltage
- Wireless control of one or two 0-10v controllable LED drivers
- Wireless control of one tunable white LED driver with two 0-10v control interfaces
- Connects with DALI LED drivers and DALI sensors for occupancy sensing and daylight harvesting
- Programmed by free Casambi App (Available at Apple Store & Google Play)
- Up to 250 Casambi enabled products per wireless mesh network
- Compatible with iPhone4s, iPad3, iPod Touch 5th Gen, Android 4.4 or any later device with BT 4.0 support



#### Product Description

The Casambi CBU-A2D is a wireless Bluetooth mesh control device with wired connection with 2 channels of 0-10v or DALI control. It is designed for wireless control of LED light fixtures as a part of a universally code compliant, comprehensive lighting control system.

It is ideal for control of two channels of 0-10v static or one channel of 0-10v tunable white light output. It is also ideal for wireless control of DALI devices within a light fixture or area network of up to 64 DALI devices.

It can be connected directly with a DALI LED driver or DALI sensor for occupancy detection and daylight harvesting, thereby creating wireless DALI fixtures with DALI network feedback of up to 250 individual Bluetooth mesh devices.

Casambi enabled control products from any partnered manufacturer can be programmed for direct control of up to 250 units per wireless mesh network.

An infinite number of wireless mesh networks can be tethered to the cloud for larger IoT applications.

Maximum distance of 100 feet for indoor & 200 feet for outdoor wireless mesh communication between each device.





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### Specifications:

#### AC Input:

Voltage range: 100-277 vac (UL/CSA only) 240 vac (CE/UL/CSA); 50-60 Hz  
Current: 35 mA max.  
No-load standby power: Less than 0.5 Watt

#### Channel 1 output:

Output voltage, 0-10v 0-10vdc max. 7 mA (sinking)  
Output voltage, DALI 12vdc max. 20 mA (sourcing)  
Maximum number of drivers 1 driver + 1 sensor or momentary input

#### Channel 2 output:

Output voltage, 0-10v 0-10 vdc max. 7 mA (sinking)  
Output voltage, relay control 12 vdc max. 100 mA (sourcing)  
Maximum number of drivers 1 driver

#### Radio Transmittance:

Operating frequencies 2.400 to 2.483 Ghz  
Transmission Distance 200' Exterior Open Air; 100' Typical Interior  
Maximum output power -4 dBm  
FCC ID 2ALA3-CBUA2D

#### Operating conditions:

Ambient temperature (ta) -4°F to +113°F (-20°C to +45°C)  
Max. case temperature (tc) +158°F (+70 °C)  
Storage temperature -13°F to +158°F (-25°C to +70°C)  
Humidity 0-80% non-condensing

#### Connectors:

Wire gauge, solid & stranded 16-20 AWG (0.5-1.5 mm<sup>2</sup>)  
Wire strip length 6-7 mm (.25")  
Tightening torque: 2.6 Lb-In (0.4 Nm/Kg)

#### Safety Compliance:

Ingress Protection IP20 (indoor use only)  
Protection Class Class II  
IC Listing 22496-CBUA2D  
UL Listing E494741

#### Mechanical:

Dimensions 3.0" x 1.0" x 0.9" (76mm x 26mm x 23mm)  
Weight 1.4oz (40 g)



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### Specifications (Continued):

**FCC Compliance Statement:**

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Radiation Exposure Statement:**

This device complies with FCC radiation exposure limits for an uncontrolled environment. This device shall be installed and operated with a minimum distance of 8" (20cm) between users or bystanders and the device.

**FCC Interference Statement:**

This equipment complies as a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not used in accordance with manufacturer's installation guidelines, this device may cause harmful interference with other radio communications. Casambi provides no guarantee that interference will not occur in any particular installation.

**Radiation Exposure Statement for Canada:**

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following conditions:

- (1) This device may not cause interference
- (2) This device must accept any interference, including interference that may cause undesired operation of this device.

This equipment is exempt from the routine RF exposure evaluation requirements of RSS-102. This equipment should be installed and operated with a minimum distance of 20 cm between the antenna and the user or bystanders.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Ce matériel n'est pas sujet à l'évaluation habituelle d'exposition RF selon RSS102. Ce matériel devrait être installé et exploité en gardant une distance minimale de 20 cm entre l'antenne et l'utilisateur ou les spectateurs.

**General Warning:**

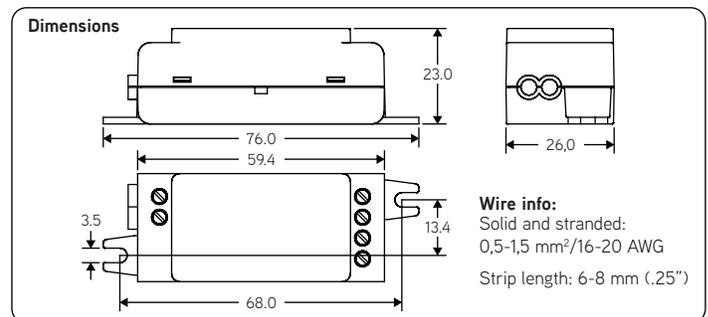
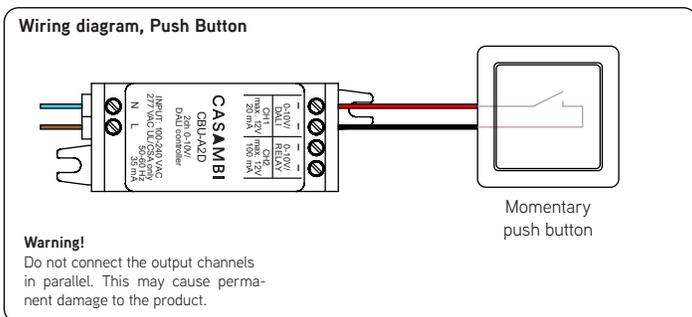
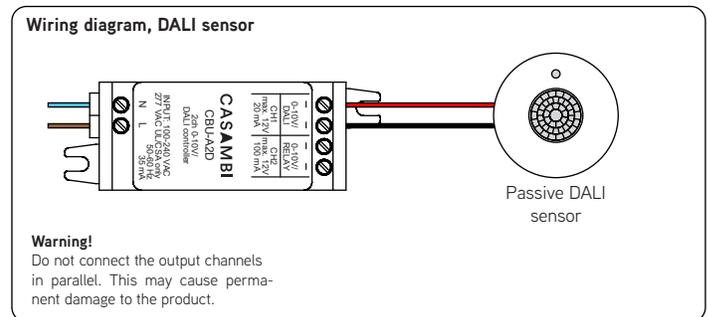
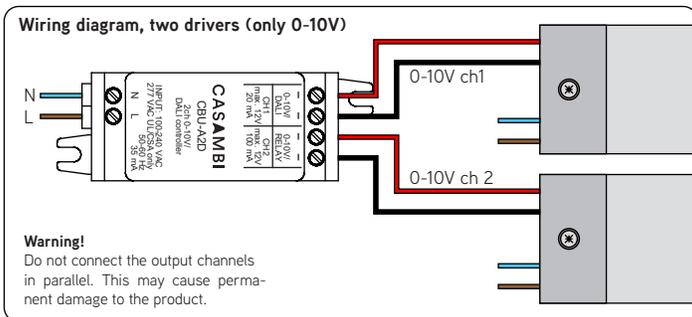
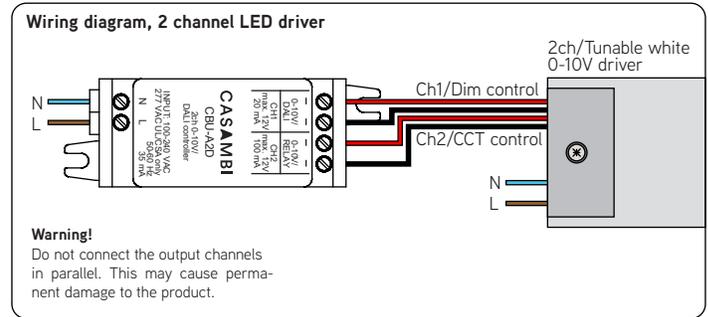
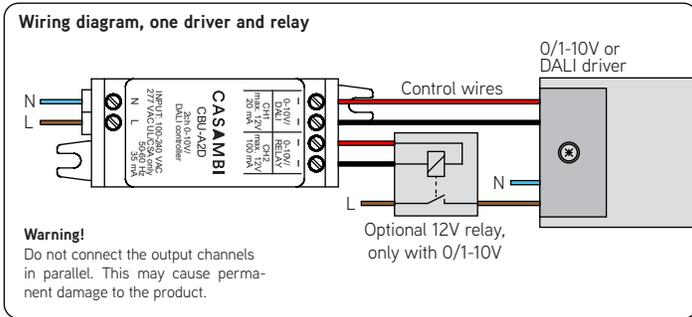
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### Wiring Diagrams:



### Ordering Information:

Qty:	Part Number:	Description:
1	CBU-A2D	Bluetooth mesh controllable 2-channel 0-10v & DALI controller



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## Typical Casambi System Diagram:

