

Single Channel 0-10v Module w/ Integral Relay and 24vdc

NAPPK DALI-0-10V-1CH-CAS

Product Description

The single channel 0-10v module delivers flexible fixture control in a compact, knockout-mounted form factor. Supporting both DALI and 0-10V dimming from a single controller, it simplifies specification and installation across a wide range of lighting applications. An integrated 16A relay enables reliable load switching, while the built-in low-voltage sensor input supports occupancy-based control strategies. Powered by Casambi's long-range Bluetooth mesh technology, it provides scalable wireless lighting control and commissioning without additional gateways or control wiring.

Technical Data

Control Protocol: 0-10V • DALI

Load Capacity / Voltage: Max load current: 5.0 A • 120...277 Vac

Relay Output Rating: 16 A

Input Voltage Range: 120...277 Vac (rated) • 108...305 Vac (max)

Max Mains Current: 0.04 A

Input Frequency: 50/60 Hz

Additional Input / Output: Sensor input: Motion (ON/OFF) • 12...24 Vdc • 1...5 mA • 0-10V output: 0...10 Vdc at 100 mA • DALI output: 12 Vdc at 20 mA

Output Voltage 0-10V / PWM: 0...10 Vdc

Dimming Method: 0-10V dimming • DALI dimming

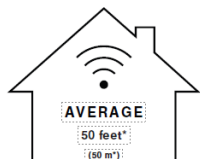
Radio Tranceiver

Casambi Tested BLE Range: 30 m (open air)

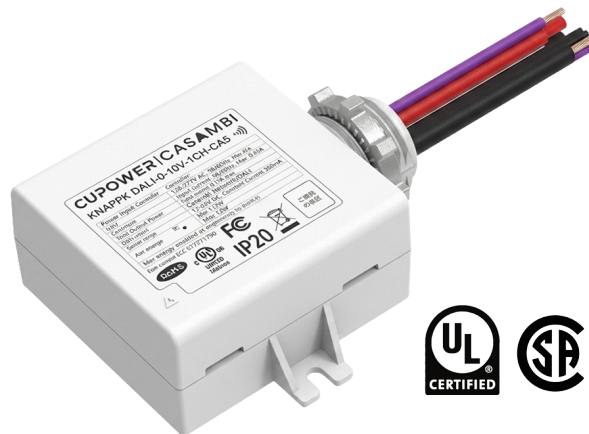
BLE Frequency: 2.4 GHz

Range

Average 50ft distance



*The wireless range of a Casambi unit is dependent on several factors; how it has been integrated into a luminaire, where it has been installed; taking into consideration surrounding obstacles such as walls and other building materials that may block signals. [Learn More](#)



Mechanical Data

Ambient Temperature: -20...+55 °C

Storage Temperature: -20...+75 °C

Humidity: Working humidity: 10%...90% • Store humidity: 5%...95%

IP Rating: IP20

Mounting Type: Locknut with 1/2 inch NPT-thread

Dimension: 2.76 x 2.68 x 1.06 in (70 x 68 x 27 mm)

Wire Gauge Whip (Line/Low): Mains L/relay out: 12 AWG • Neutral/sensor input: 18 AWG • 0-10V/DALI: 22 AWG • Whip length: 6.49 in (165 mm)

Wire Range Full Spec: Length: 6.49 in (165 mm) • Strip length: 0.31-0.39 in (8-10 mm)

Wire Type: Solid

Cable Length: 6.49 in (165 mm)

Weight: 0.11 kg

Product Warranty: 5 years

Certifications

UL8750 • CSA C22.2 No.250.13

Warning!

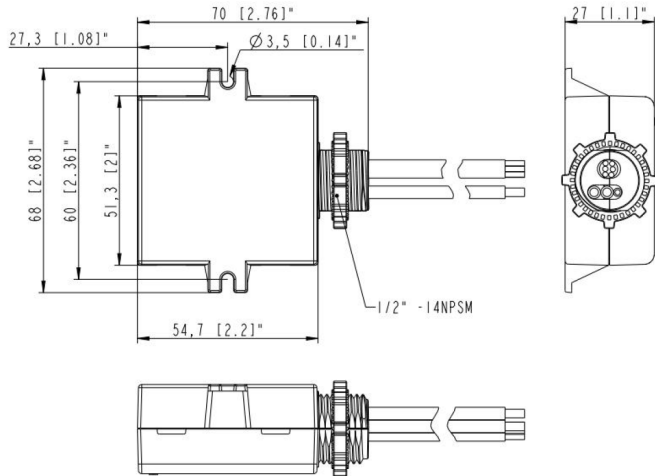


Hazardous voltages. Risk of electric shock or fire. Only qualified professionals should make the connections. Disconnect the mains power supply and verify its absence prior to installation.

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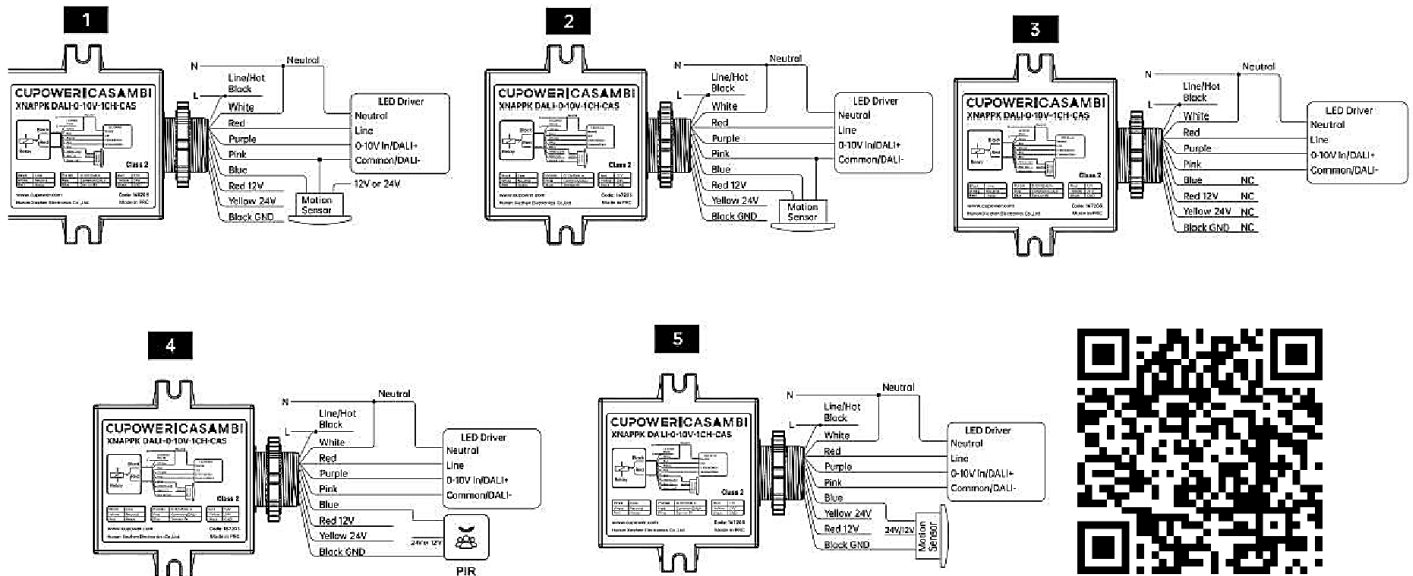
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Physical Dimensions



Install Notes: Remove a standard 1/2 inch knockout to install. All connections must be as short as possible to ensure good EMI performance. No secondary switches are allowed. Incorrect wiring can damage the fixtures. The wire must be well protected against short circuit.

Wiring Diagrams



Scan the QR code to access the available spec sheets, wiring diagrams, and additional resources for this product.