



NDRV-E-CSB-4

Technical Datasheet for Constant Voltage PWM Dimmer (4 Channel)



Description

The NDRV-E-CSB-4 is a 4 channel PWM (Pulse Width Modulation) dimmer with Casambi integration, giving smooth dimming suitable for RGBW, tunable and single colour LEDs though a range of Constant Voltages.

- 4 Individually addressable outputs for tunable and colour control. Works with any standard Constant Voltage supply and LED array
- Casambi Enabled
- 12-52VDC, 5A per channel, 10A Max/Controller
- Bluetooth Beacons



CASAMBI



Technical Specifications

Mechanical

| Housing | Black Plastic Injection Moulded ABS |
|------------|-------------------------------------|
| Dimensions | 162.2mm x 35mm x 33.3mm |
| Weight | 78g |
| Protection | IP20 |
| Mounting | Screwdown |

Input

| Voltage Range | 12-52VDC |
|-----------------------|--------------|
| Max. Input Current | 10A |
| No-load Standby Power | <100mW @ 24V |

Output

| Number of Channels | 4 |
|-----------------------|--|
| Output Voltage | 12-52VDC |
| Max. Output Current | 5A per channel up to a combined total of 10A |
| Min. Load Requirement | 0W |
| Dimming Method | Pulse Width Modulation (PWM) @ 1.9khz |
| Dimming Output | 0-100%, 0.1% miniumum dimming level |

Radio Transceiver

| Operating Frequencies | 2.4Ghz - 2.483Ghz |
|-----------------------|---------------------------|
| Maximum Output Power | +4dBm |
| Wireless Protocol | Bluetooth Low Energy v4.1 |

Operating Conditions

| Ambient Temperature | 0°c to +50°c |
|------------------------|--------------------|
| Max. Case Temperature | +75°c |
| Storage Temperature | -40°c to +80°c |
| Max. Relative Humidity | 80% non-condensing |

Input Connectors

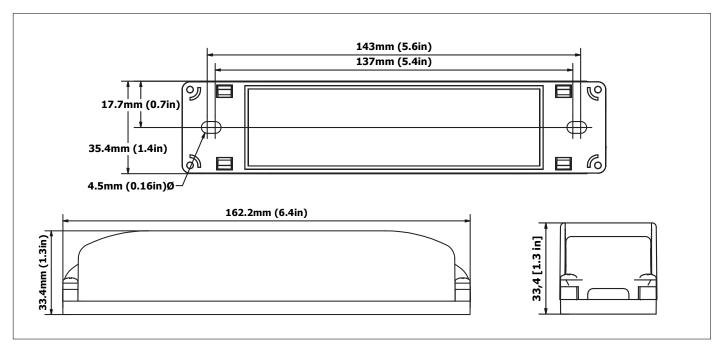
| Wire Range | 0.2mm - 2.5mm |
|-------------------|---------------|
| Wire Strip Length | 5mm |

Output Connectors

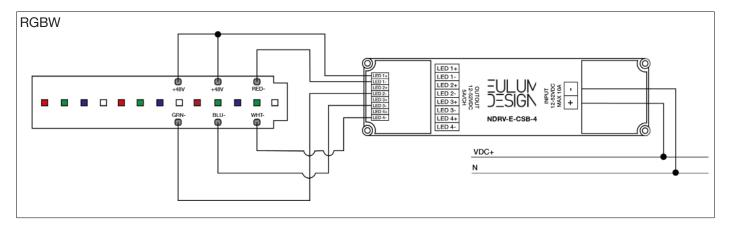
| Wire Range | 0.2mm - 1.5mm |
|-------------------|---------------|
| Wire Strip Length | 5mm |

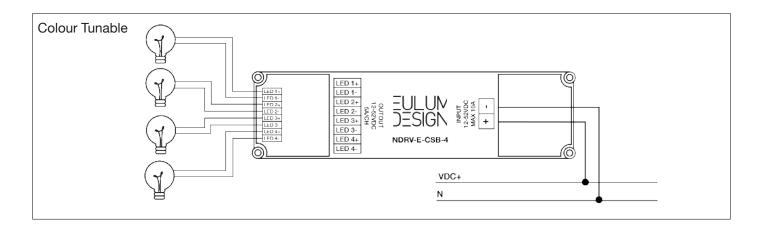


Dimensions



Wiring Diagram





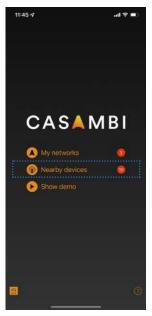
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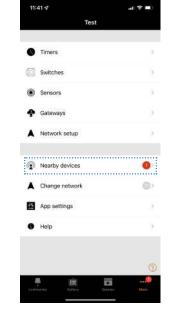
Profiles

| Profile Name | Description |
|------------------|---------------------------------|
| NDRV-E-CSB-4 | 4 Channel Independent |
| NDRV-E-2760-TW2 | Two Tunable outputs, common CCT |
| NDRV-E-CSB-RGBW | RGBW, always RGB |
| NDRV-E-CSB-RGBWI | RGBW, ratio slider of RGB vs W |
| Version | Classic/Evolution |

Calibration



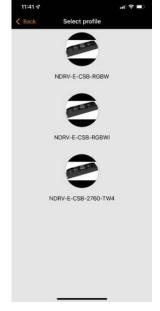
1. Power on the device and open the Casambi App, select "Nearby devices".



2. Tap "Nearby Devices"



2. Tap the NDRV and then "Change profile".



4. Choose your desired profile. NDRV-E-CSB-4 is the standard profile and will not show.



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|---|---|---|---|
| Back | NDRV-E-CS | B-4 | |
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NOTE: The NDRV-E-CSB-4 must be unpaired to change the profile. To unpair, double tap the NDRV-E-CSB-4 in the network and scroll to the bottom of the options to "Unpair Device", then follow step on from Step 1 above.

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Range

In open air, the bluetooth range can reach up to 75m. This will be reduced when placed inside a building. Please note that putting the bluetooth unit inside a metal enclosure is unadvised as this will dramatically reduce the signal range.

Compatible Devices:

iPhone iOS and later are supported iPad iOS 10 and later are supported Android 4.4 version (KitKat) and later are supported.



Warranty

For information on our warranty, please visit: www.eulum.com/warranty/