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

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

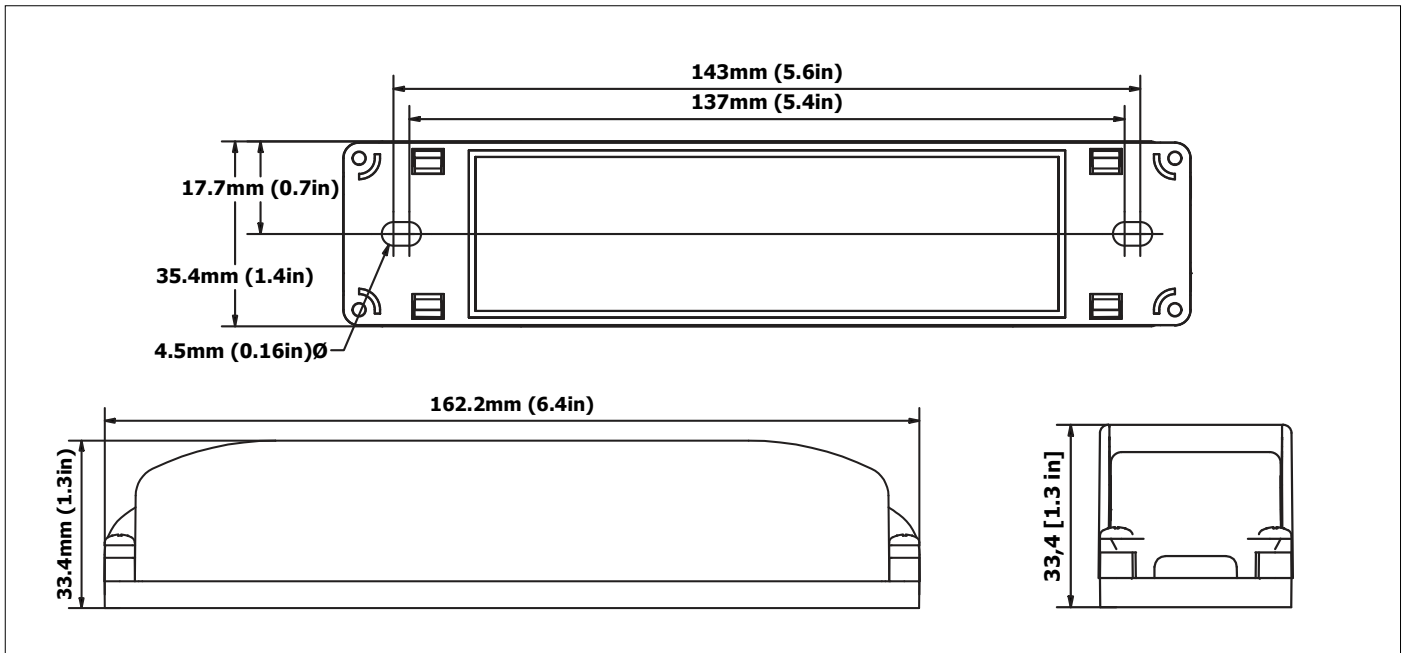|	
Ambient Temperature	0°c to +50°c
Max. Case Temperature	+75°c
Storage Temperature	-40°c to +80°c
Max. Relative Humidity	80% non-condensing

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

RGBW

Colour Tunable
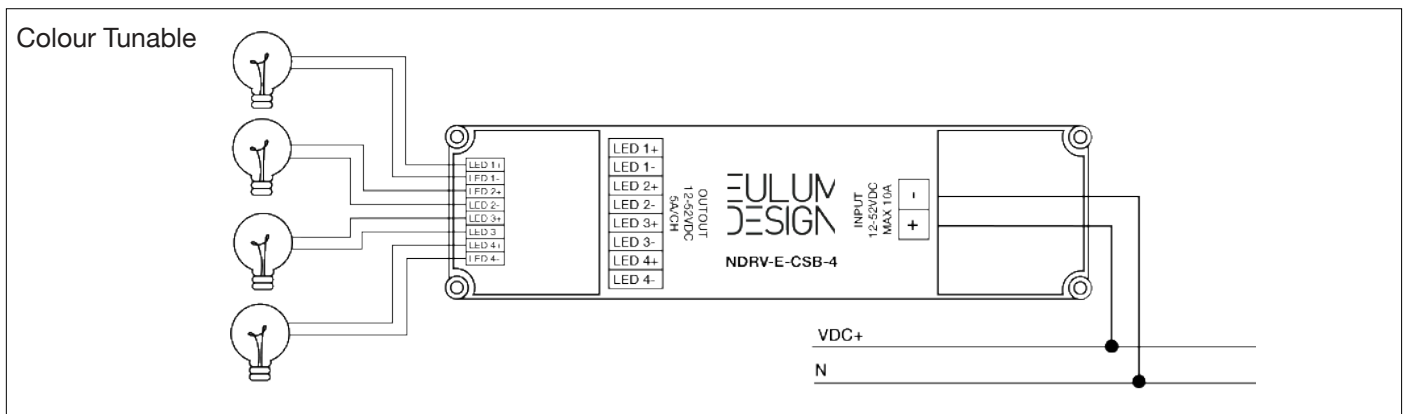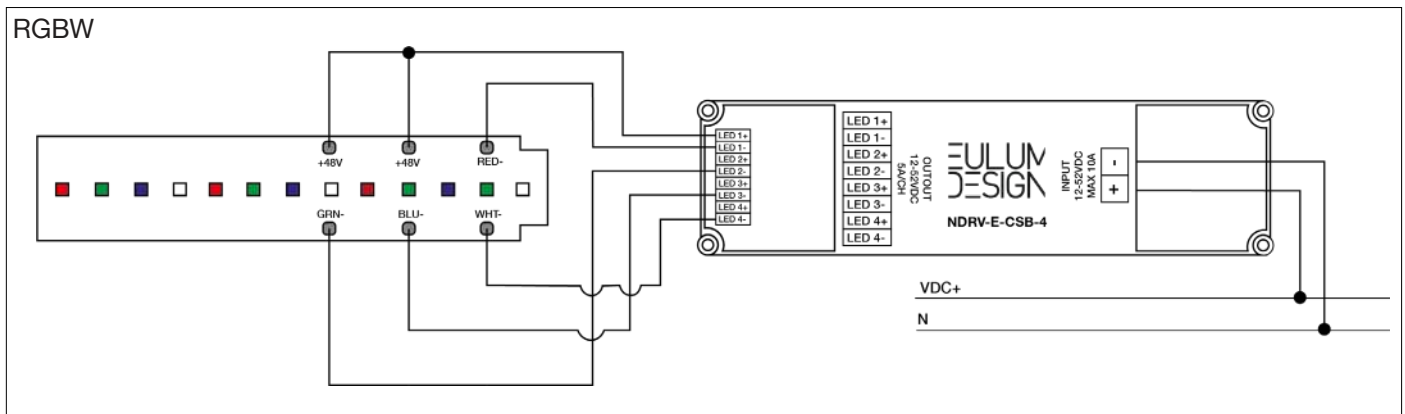
Profiles

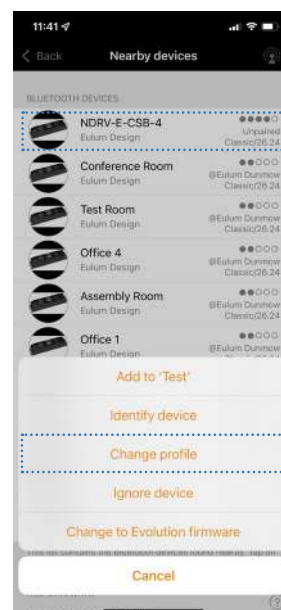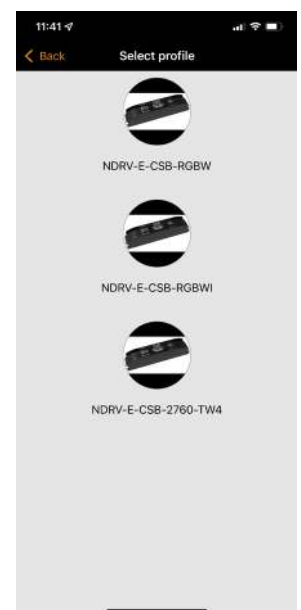| Profile Name	Description
NDRV-E-CSB-4	4 Channel Independent
NDRV-E-2760-TW2	Two Tunable outputs, common CCT
NDRV-E-CSB-RGBW	RGBW, always RGB
NDRV-E-CSB-RGBWI	RGBW, ratio slider of RGB vs W
Version	Classic/Evolution

Calibration
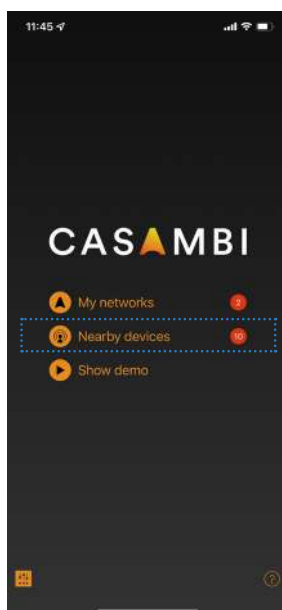
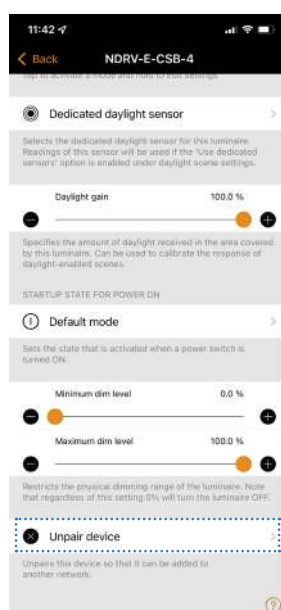1. Power on the device and open the Casambi App, select "Nearby devices".
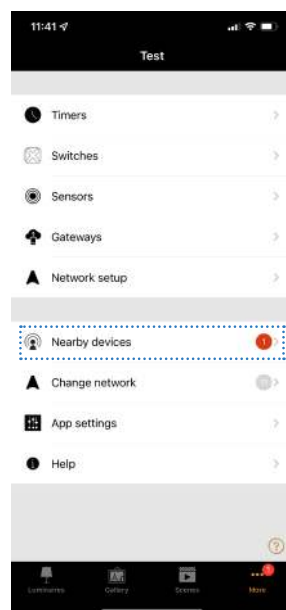
2. Tap "Nearby Devices"

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.

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.

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/