IP66 CVC3 User Manual
52104
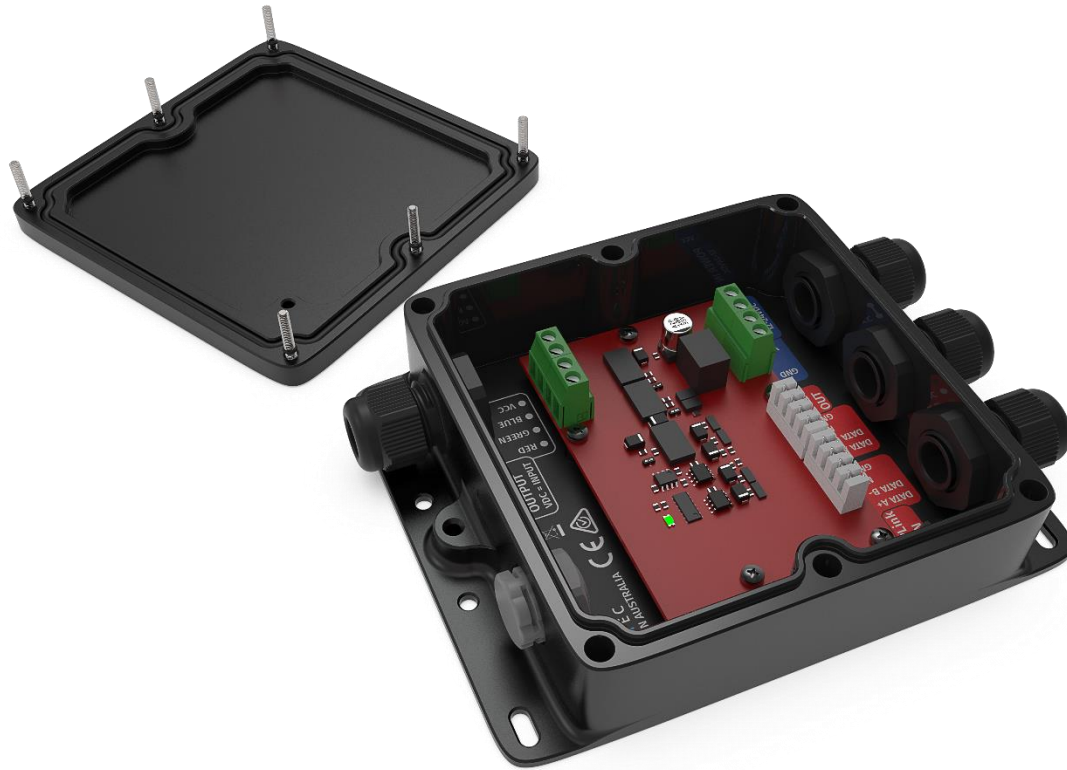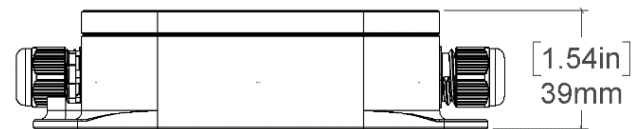For latest version visit:
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IP66 CVC3 (CC1-36)
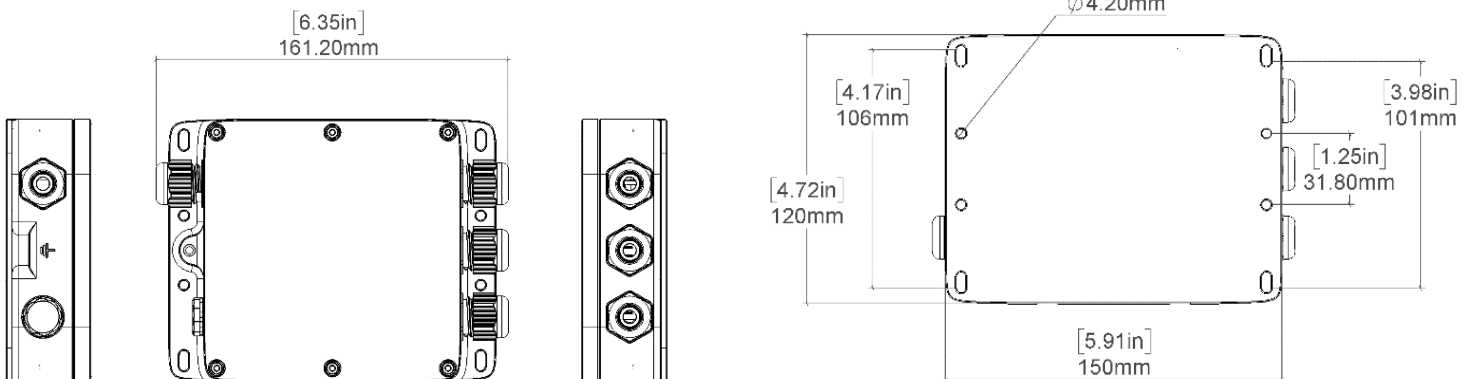
IP66 3-CHANNEL CONSTANT VOLTAGE LED TAPE DRIVER

Box Contents

- IP66 CVC3 (CC1-36) PN: 73921

- This user manual

Physical Dimensions

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Safety

- Never plug PLINK ports in to Ethernet outlets

- Disconnect from power supply, and then make data connections

- Do not exceed the ratings of the device

Functional Features

- CVC3 supports standard RGB Tape such as ENTTEC 9VL4

- Each CVC3 unit can control 3 dimmable channels of LED tape (either RGB or three individual single colour strips)

- Each PLINK run allows a maximum of 1024 DMX channels (2 universes) to be driven; this controls 1,020 single colour tapes

- Automatic incremental addressing when units are daisy chained together

- This device is compatible with ENTTEC Pixelator family

- Requires an external DC power supply

- Data extensions up to 300 meters over cat6

- Scalable design for large projects

LED Protocol

- This device is compatible with ENTTEC Pixelator family
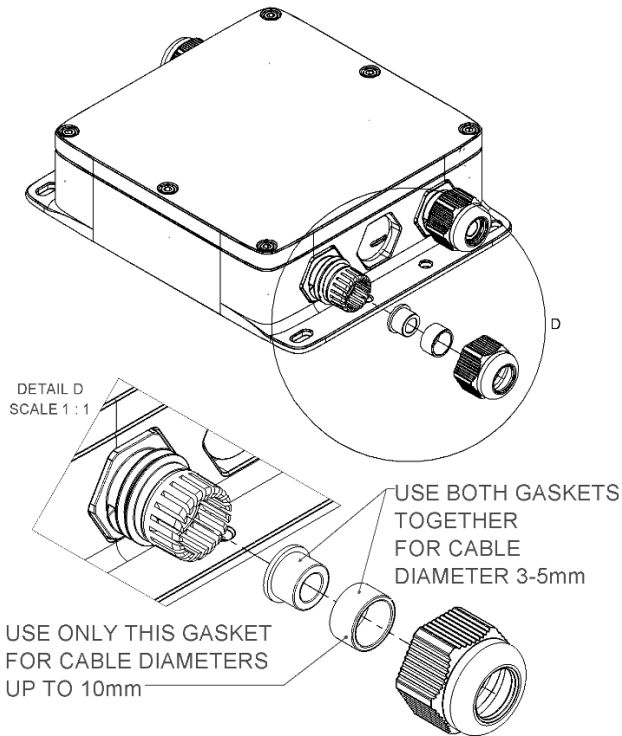
- Please set the LED protocol to WS2812B

Mechanical Features

- Machined 6061 aluminium enclosure - light weight, rugged, impact resistant, long lasting, corrosion resistant, UV resistant)

- Anodise type II closure treatment and 2 step electrolytic dying - excellent outdoor resilience, corrosion resistant, colour will resist fading caused by UV exposure

- 304 stainless fasteners (corrosion resistant)

- Self-retaining screws (screws will not be lost when installing)

- Premium cable glands (nylon, cable diameter ⌀3mm-10mm for installation flexibility)

- Fixed cable glands for easy use (cable glands will not rotate when tightening)

- Breath seal (automatic pressure equalisation, manages condensation to avoid electronic failures)

- IP66 enclosure (powerful water jets, high pressure washdown resistant)

- High power screw down cage terminal blocks for secure wiring

- Krone punch down terminal for fast secure data wiring

- External earthing thread – reduces electronic failures

- Broad operating temperature (suitable for various environments)

- Multiple fixing points (flexible installation)

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How to install?

Installation guide

- Cable glands suit diameters 3mm to 10mm, use round cable only. See image below explaining the adjustment.

DETAIL D
SCALE 1 : 1

USE BOTH GASKETS TOGETHER FOR CABLE DIAMETER 3-5mm

USE ONLY THIS GASKET FOR CABLE DIAMETERS UP TO 10mm

- If not required remove cable gland, assemble blanking plug as per below image. Hold plug in place and turn the nut firmly.

M16 NUT

GASKET

M16 PLUG
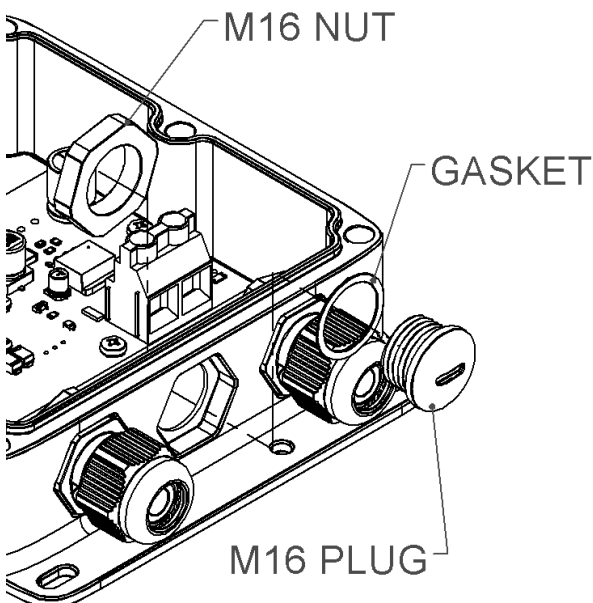
- **PLINK Data connection**: Connect PLINK Data cable (from Pixelator family) here. These are punch down terminals, it's recommended to use a krone punch down tool.
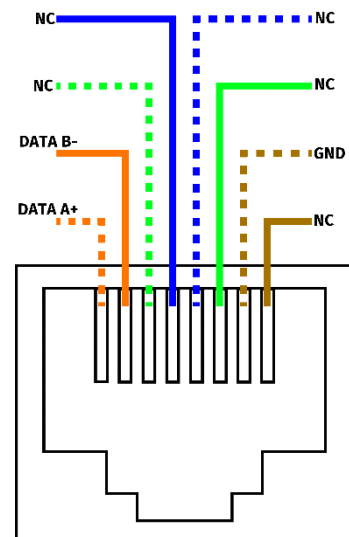
Notes:

- Plink system only works with CAT5/6 straight-through cables, do not use crossover cables.

- **Plink Pinout**

Wire colour depends on RJ45 wiring colour code. Refer to Pin 1 & 2 colour of straight through RJ45 cable to match wire colour for Data A+ & Data B-

  o Example of T568B colour code and wire colour for Data A+ & Data B-

NC — NC
NC — NC
DATA B- — GND
DATA A+ — NC

CVC3 Punch down pinout with T568B colour code

Wire Colour	DMX Signal
Orange/White	Data A+
Orange	Data B-
Brown/White	GND

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- **Power Input connection**: Green terminal blocks

  Wire strip length: 8mm

  Before inserting wire, turn screws counter-clockwise to ensure terminal cages are open.
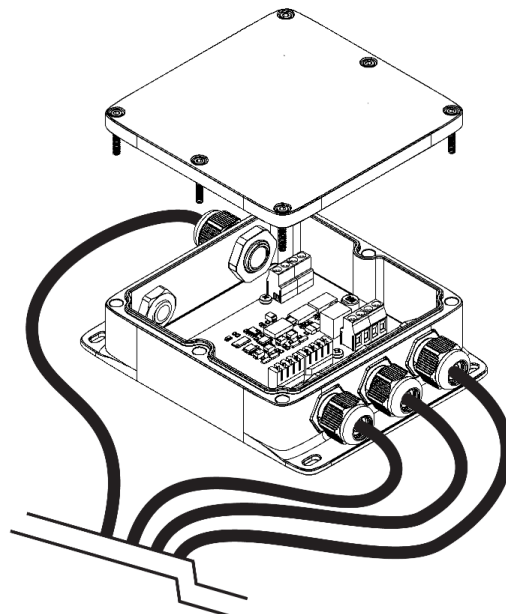

- **Output connection**: Green terminal blocks

  Connect your Pixel tape or dots here. Please ensure that Input power is turned off, before making this connection.
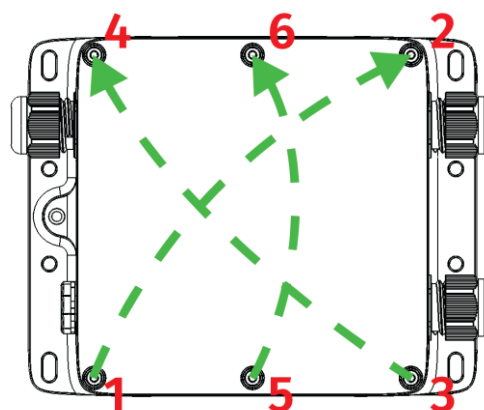
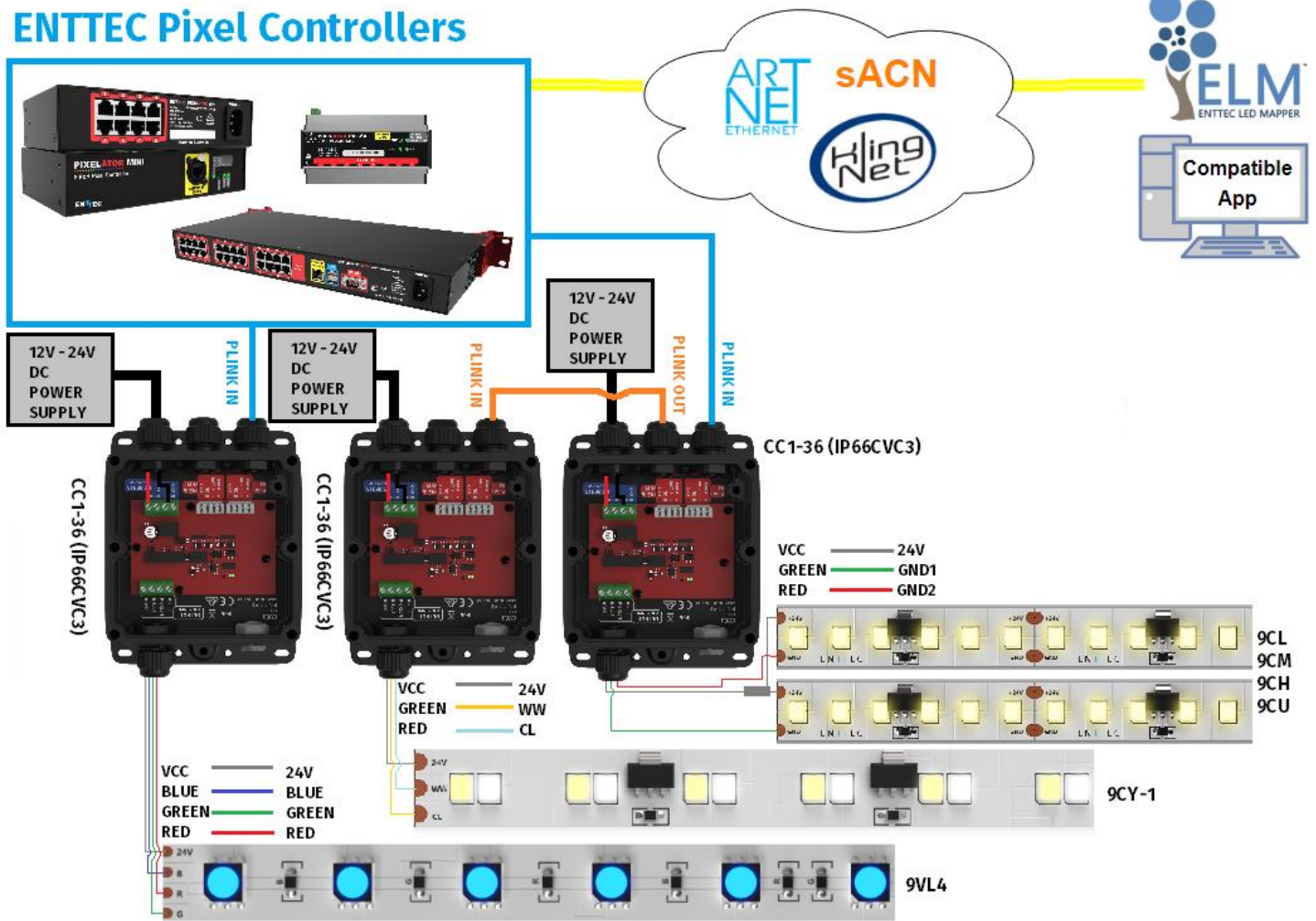 Wire strip length: 8mm

- Fastening the lid

Tool: Hex key 2.5mm

Lightly tighten the screws at first, zig zag as per image below. Then zig zag again to each screw and firmly tighten each.

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Application Diagram

ENTTEC Pixel Controllers

Possible End to End Solution

**IP Rated Power Supply
e.g.: HLG-150H-24**

CC1-36 (IP66CVC3)

VCC		24 V
BLUE		BLUE
GREEN		GREEN
RED		RED

9VL4 tape in IP sleeve

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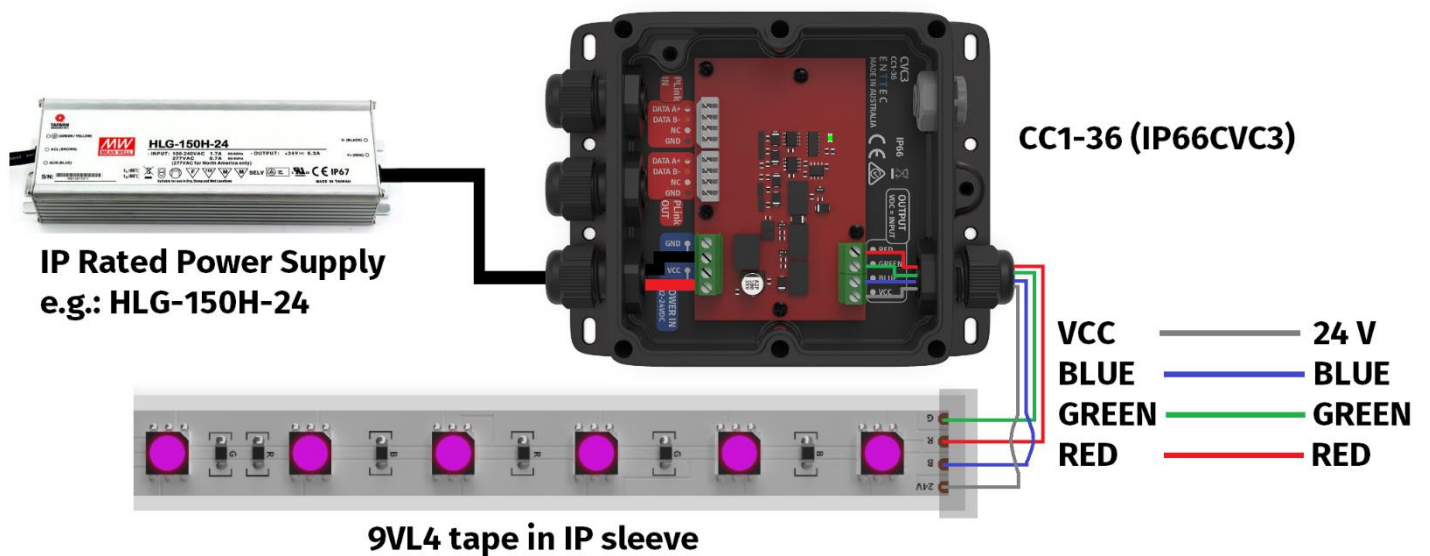
Specifications

Item	Details	
Input Voltage	12V to 24v DC	
Maximum Total Output Power	12 V	120 W
	24 V	240 W
Output Current (Max) Per Pin (Screw Terminal)	5 A per Channel	
Data In	PLINK	
Data Through	PLINK	
Data Refresh Rate	400 Hz	
Ambient Operating Temperature	-15 °C to 40 °C -15 °C to 60 °C (IF NOT IN DIRECT SUNLIGHT)	
Storage Temperature	-20 °C to 80 °C	
IP Rating	IP66	
Cable glands	3 to 10mmØ round cable only	
Unit Weight	625 g / 1.378 lb	
Shipped weight	840 g / 1.85 lb	
Length	161.20mm / 6.35 in	
Width	120mm / 4.72 in	
Height	39mm / 1.54 in	
Internal Connectors	4-way punch down (suits krone) x 2 4 pin screw terminal x 2	

Due to continuous improvements and innovations of all ENTTEC products, specifications and features are subject to change without notice

Ordering Information

Part Number	Description
73921	CC1-36 CVC3 (12-24v)

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