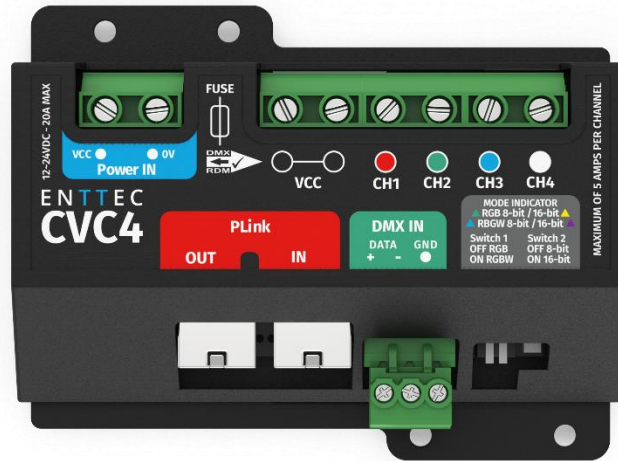


CVC4 – Datasheet

High precision, auto-addressable RGBW LED tape dimmer with P-Link or DMX/RDM input.



The CVC4 is a 4-channel constant voltage LED dimmer, supporting up to 5A per channel at 12–24V. Designed for performance and reliability, it's ideal for dimming RGB or RGBW LED tape.

Featuring auto-addressing PLINK protocol support, the CVC4 integrates seamlessly with ENTTEC's PIXELATOR controllers—simply daisy-chain units with Cat6 cable up to 300m, no manual addressing required.

Alternatively, configure via RDM (default DMX start: 001), or use DMX-to-PLINK conversion to auto-address downstream CVC4 units via PLINK.

The CVC4 includes a user-replaceable blade fuse for short-circuit protection and output current limiting to prevent overheating. Two onboard DIP switches allow quick selection between RGB/RGBW and 8-bit/16-bit modes. Its solid-state, fanless design ensures virtually silent operation.

Note: The number of controllable DMX universes per PLINK port is determined by the PLINK data source.

Features

- Dimming capacity of up to 5A per channel.
- 12-24V input (max 20A total load).
- 1kHz PWM refresh rate for smooth dimming.
- Supports daisy-chaining via ENTTEC's auto-addressing PLINK protocol over Cat6 cable.
- DMX/RDM input through pluggable rising clamp connectors.
- RDM identification and addressing functionality.
- On board conversion from DMX to PLINK.
- Attachable TS-35 Din Rail mounting clip.
- Status LED and DIP switch to toggle between RGB/RGBW and 8-bit/16-bit operating modes.
- User-serviceable blade fuse to protect against short circuits.
- Passive cooling with internal overheating protection.
- Compact design with integrated 4mm surface mounting holes.

ENTTEC

Specification

CVC4 (73926)

Visit the ENTTEC website for the latest version.

Connectors	1* Power Input (Screw Terminal)		
	1* DMX Input (Screw Terminal)		
	1* PLINK In/Out (RJ45)		
	1* CV Output (Screw Terminal)		
IP Rating	IP20		
Data Input Protocols	DMX512a		
	PLINK (RJ45)		
Data Output Protocol	PLINK (RJ45)		
Data Capability (per chain)	DMX		
	PLINK		
RDM Functionality	Start address configuration		
	Temperature monitoring		
	Firmware updatable		
Start Address Configuration Options	PLINK using PIXELATOR controller		
	RDM (Default channel: 1)		
Dimming Resolution	8/16-Bit		
Fixture Modes / Channel Footprint	8-Bit RGB	3ch	
	8-Bit RGBW	4ch	
	16-Bit RGB	6ch	
	16-Bit RGBW	8ch	
Max. Data Cable Length	DMX	300m per chain	
	PLINK	300m between each CVC4 (Cat6)	
Input Voltage	12-24 V DC		
Max. Current Rating	Max. 20A (in 4ch mode)		
Max. Output Power	240 W (@12V)		
	480 W (@24V)		
Device Power Draw	Max. 4W – Idle 0.3W		
Max. Current per Channel	Max. 5A		
Reverse Polarity Protection	Yes (power input connector only)		
Over Temperature Protection	Yes (output intensity will half and the LED indicator will blink red unit device has cooled).		
PWM Frequency	1KHz - Fixed		
User Serviceable Fuse	ATO 20A blade fuse		
Cooling Method	Convection		
Operating Temperature	-20°C to +50°C -4°F to 122°F		
Environmental Operating Humidity	5- 95% (non-condensing)		
Mounting Options	Surface mount using mounting tabs		
Body Material	Black ABS plastic + Aluminium heat sink		
Unit Dimensions	88*117.5*31.5mm		
Unit Weight	0.13kg / 0.28lbs		
Shipping Dimensions	140*140*40 mm		
Shipping Weight	0.19kg / 0.42lbs		
Warranty	3 year return to base manufacturer warranty		

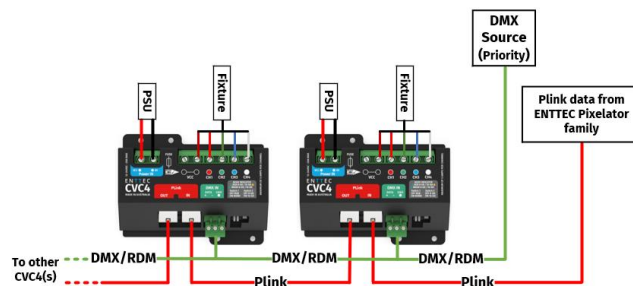
Certification



Box Contents

- CVC4
- TS35 DIN clip
- 2 * Din clip mounting screws

Application Diagram



User Serviceable Fuse

The CVC4 contains a user serviceable 20A blade fuse to protect against over draw and short circuiting.

Installation

- This product must be installed in accordance with applicable national and local electrical & construction codes by a competent person familiar with the operation of the product and the hazards involved.
- A maximum of 32 devices should be used on a DMX line before re-generating the signal using a DMX buffer/ repeater / splitter.
- Failure to comply with the these and the product installation guide may result in serious injury or damage to property.
- Refer to this product's full installation guide before handling, planning, and specifying it on your project. If ever unsure consult ENTTEC.

Ordering Information

For further support and to browse ENTTEC's range of products visit the [ENTTEC website](https://www.enttec.com).

Item	SKU
CVC4	73926

enttec.com

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Due to constant innovation, information within this document is subject to change.