ENTTEC

CVC4 – Datasheet



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



ENTTEC's CVC4 is a high precision 4 channel, constant voltage (CV) LED dimmer, capable of dimming up to 5A of LED tape per channel at 12-24v.

The CVC4's key feature is it's integration of ENTTEC's Pixelator family controller's auto-addressing PLink protocol. This is a time saving system designed to allow users to simply chain one device to the next using Cat6 cable up to 300m away, removing the need to manually address each CVC4.

Alternatively use RDM to configure the start address of each CVC4 (default channel 001) and control over DMX. Another feature for the CVC4 is its ability to convert DMX to PLink protocol, connect a Cat6 cable to a CVC4 receiving DMX and the PLink protocol will auto-address all consecutive CVC4 along the daisy chain.

The CVC4 incorporates a user-serviceable blade fuse to protect against short circuits and features the ability to limit the output to reduce overheating. With two DIP switches located on the CVC4, easily switch between RGB/RGBW and 8-bit/16-bit modes1.

The solid-state, fan-less design means the CVC4 is virtually silent when in operation.

Features

- Dimming capacity of up to 5A per channel.
- 12-24V input (20A maximum).
- 1KHz PWM signal refresh rate.
- Support daisy chaining of ENTTEC's autoaddressing P-Link Protocol over Cat6 cable.
- DMX/RDM input through pluggable rising clamp connector.
- RDM identification and addressing functionality.
- On board conversion from DMX to P-link.
- 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.

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■ Compact design with integrated 4mm surface mounting holes.

¹ CVC4 16-bit mode matches CVC3 dimming curve.



Specification

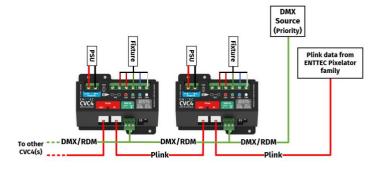
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	1* Power Input (Screw				
Connectors	Terminal)				
	1* DMX Input (Screw Terminal)				
	1* PLINK In/Out (RJ45)				
	1* CV Output (Screw Terminal)				
IP rating	IP20				
Data input protocols	DMX512a				
	PLink - WS2812b (RJ45)				
Data output protocol	PLink - WS2812b (RJ45)				
	Start address configuration				
RDM functionality	Temperature monitoring				
	Firmware updatable				
Start address	PLink using Pixelator family				
configuration options	RDM (Default channel: 1)				
Dimming resolution	8/16-Bit				
Fixture Modes / Channel footprint	8-Bit RGB		3ch		
	8-Bit RGBW 16-Bit RGB		4ch 6ch		
Chamilet 100tprilit	16-Bit RGBW	l	8ch		
Data capability (per	DMX Input	Up to 1		rsa	
chain)	PLink Input	Up to 2			
	DMX	300m p			
Max. data cable length		300m between			
Max. data cable teligili	PLink	each CVC4 (Cat6)			
Input voltage	12-24 V DC				
Max. current rating	Max. 20A (in 4ch mode)				
May output namer	240 W (@12V)				
Max. output power	480 W (@24V)				
Device power draw	Max. 4W – Idle 0.3W				
Max. current per	Max. 5A				
channel					
Reverse polarity	Yes (power input connector			r	
protection	only)			- lf	
Over Temperature Protection	Yes (output intensity will half and the LED indicator will blink				
	red unit device has cooled).				
Pulse width modulation	red unit device has cooled).			<i>,</i> •	
(PWM) frequency	1KHz - Fixed				
User serviceable fuse:	ATO 20A blade fuse				
Cooling method	Convection				
Operating temperature	-20°C to +50				
	-4°F to 122°	<u> </u>			
Environmental	5- 95%				
operating humidity	(non-condensing)				
Mounting Options	Surface mount using mounting				
J .	tabs Black ABS plastic + Aluminium				
Body material	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				
	3 year return to base				
Warranty	manufacturer warranty				
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Certification CEFC ⚠ ZUK

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. 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.

Item	SKU
CVC4	73926

enttec.com

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