Posidim
PWM LED Dimmer
User Manual

LED Lighting and Control
Designed and Manufactured in Australia

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Document Rev: 5.2 - 4 November 2016
Product specifications are subject to change without notice.

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Safety Notes

- Install in a dry sheltered position
- Installation should only be performed by a qualified professional
- Install in accordance with all appropriate wiring standards
- Never connect a LED fitting to a driver that is powered. Doing so may result in damage to the LED.
- Always make sure the output voltage range and output current of the LED driver match the requirements of the LED fitting. Failure to do so may result in damage both the driver and fitting.

Introduction

The Constant Voltage LED Dimmer panel is the perfect solution to provide user control to dim LED light installations in a standard Clipsal wall panel. Unlike other solutions, the LDP-CV-5A requires no additional LED driver, to drive up to 120W of single colour LED light fittings, such as Digilin's range of LED strips.

Specifications

Physical

		Units
Dimensions – Panel	75 x 117	mm
Protrusion into wall	15.5	mm
Knob protrusion from panel	17	mm
Weight	75	g

Inputs

		Units
Voltage	12 -24	VDC
Current	5	A

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Outputs

		Units
Outputs	1	
Current Per Channel	5	A
PWM Frequency	243	Hz
Dimming Curve	Non-linear	
Dimming Range	0 -100	%

Installation

Wiring

Figure 1 shows the four input and output terminals on the unit. The inputs should be connected to a 24V supply, the outputs should be connected to the LED fittings, as shown in the wiring diagram in Appendix A. Wiring Diagram

Operation

Using the Panel

The dimming panel has single knob to control the LED fitting brightness. This is rotated clockwise to increase the brightness (to 100%), or anti-clockwise to decrease it (to 0%). The non-linear dimming curve provides greater accuracy in setting lower light levels.

Figure 1 Rear view of the dimming panel, including wiring connections.

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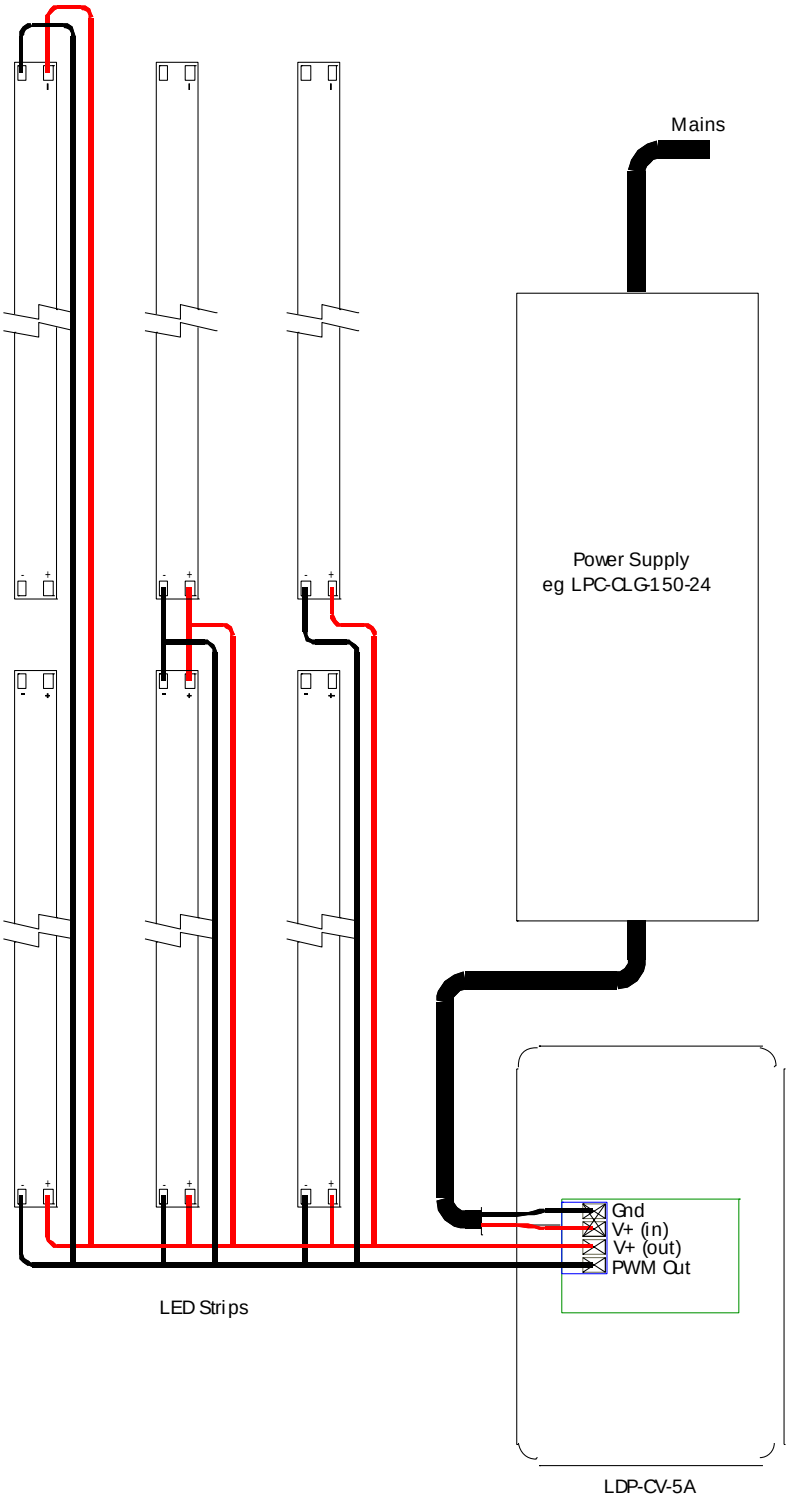
Appendix A. Wiring Diagram

The diagram below shows 3 options for connecting long lengths of LED strip, using either daisy chained, end to end or Tee-junction connections.



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