3 Channel Constant Voltage PWM Repeater

LDR-CV-5A-3CH

User Manual

LED Lighting and Control

Designed and Manufactured in Australia

Document Rev: 5.2 - 4 November 2016

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Safety Notes

- Install in a dry sheltered position
- Ensure adequate ventilation
- 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 LDR range provides a cost-effective means to expand a LED dimming system without the need for extra protocol receivers, by simply repeating the input DMX signal. The constant voltage version switches up to 5A per channel

Specifications

Physical

		Units
Dimensions	121 x 39 x 39	mm
Weight	90	g

Inputs

		Units
Voltage	12 – 24	VDC
Communications	Low side switched PWM in	
PWM Input Current Draw (max)	20	mA

Outputs

		Units
Outputs	3 Channels Low Side PWM	
Current Per Channel	5	A

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Installation

Power

Connect the input voltage (between 12 & 24V) to the Power +/- pins. This is also the power to the LED fitting(s) as such it should be selected to match the power requirements of the fitting.

PWM Input

Connect a low side switched PWM source (such as the LDMX-PWM-3) to the *PWM In* pins. Connect $V+_{(1)}$ to the positive side of the PWM (marked as V+ on the LDMX-PWM-3), then the 1, 2,& 3 pins to the desired channels.

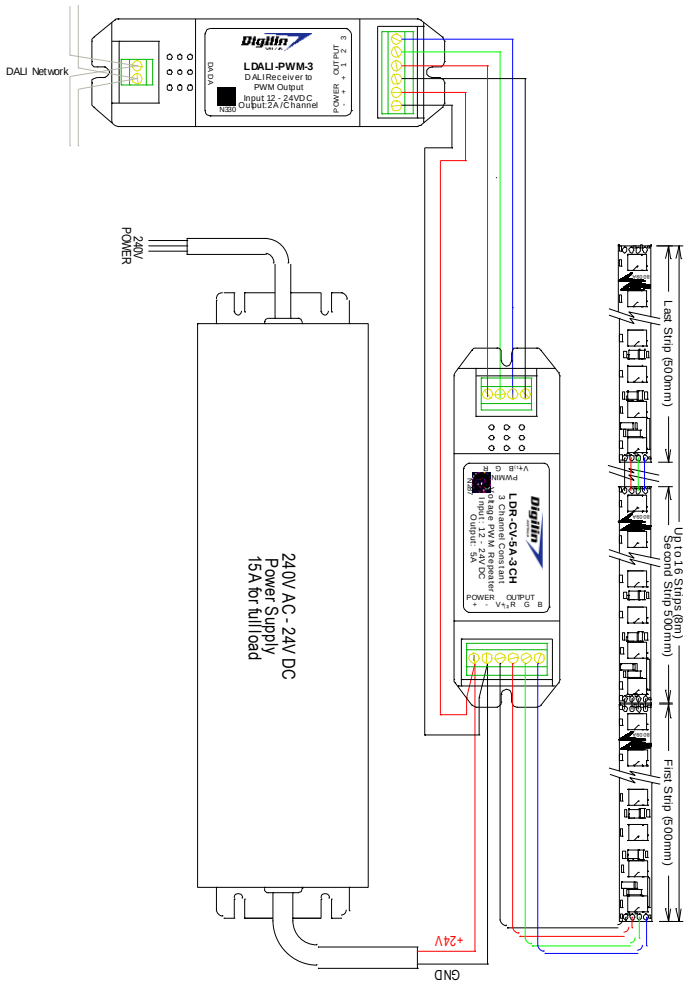
The 1, 2 & 3 pins can be connected together in order to drive up to 15A on a single PWM source.

The PWM inputs are optically isolated from the rest of the circuit.

LED Fitting

Wire the LED fittings(s) to the Output port of the LDR. The 1, 2 & 3 pins on the output are an exact copy of the PWM input signal.

Appendix A. Wiring Diagrams



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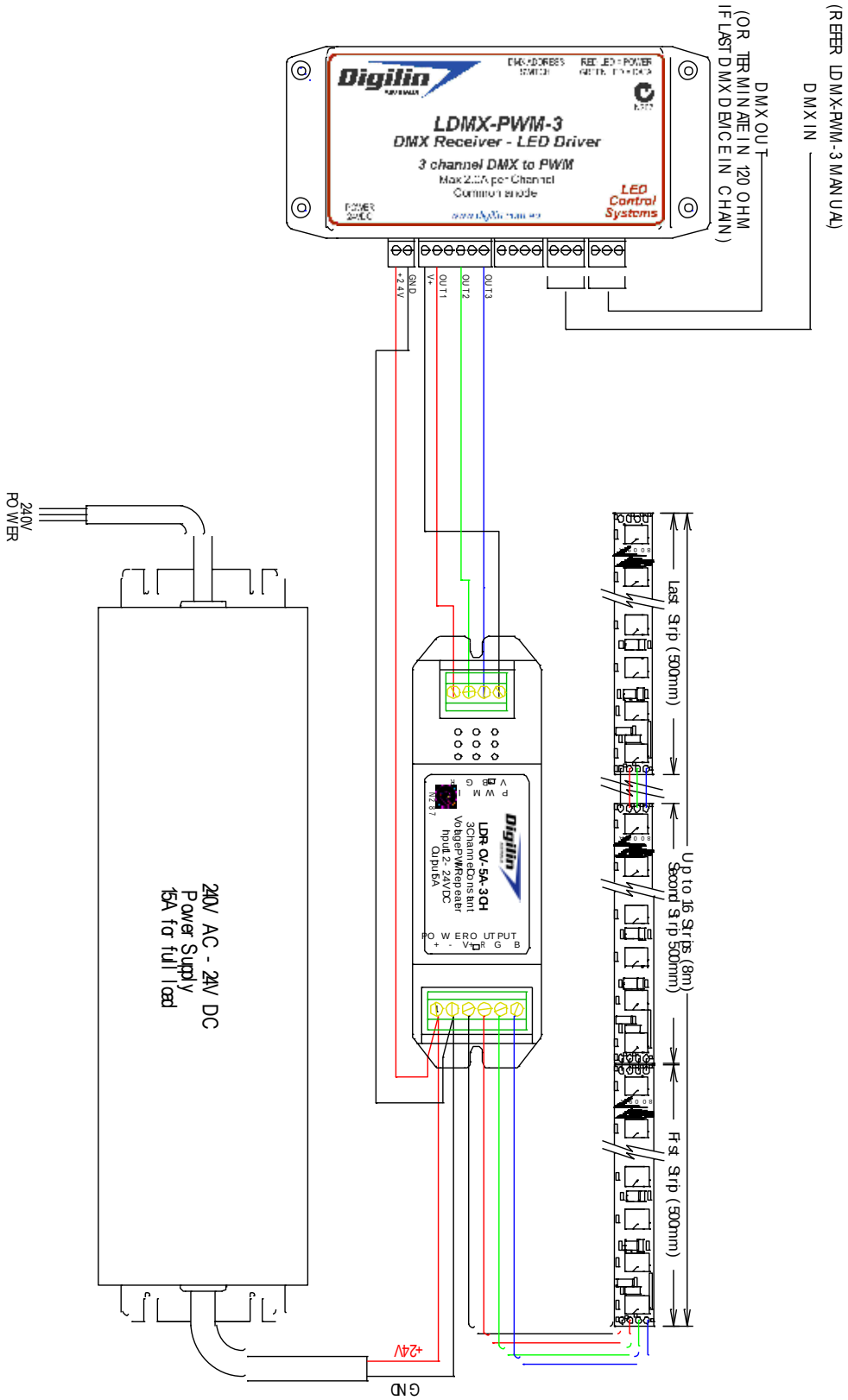

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