FLICKERFREELED

PRO-L16 USER MANUAL Version 1.2

Support email: support@flickerfreeled.com

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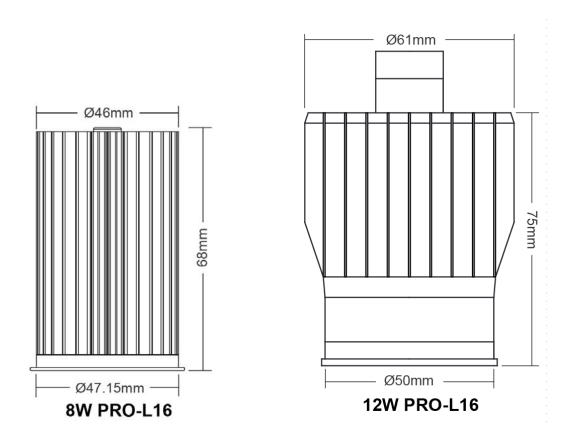


IMPORTANT!

User must read and understand all instructions prior to installation. Important operational and safety information is contained within this manual.

SAFETY AND WARNINGS:

- For professional use only.
- Always use a Class 2 power supply that matches the input voltage of the fixture (12Vdc)
- Please ensure you are using the correct wire gauge for the connected loads.
- Please do not fully enclose the fixture. Air flow over the heatsinks must be available to cool the fixture.
- Do **NOT** install the device when power is applied.
- Do **NOT** expose the device to moisture.
- Always check your connections before connecting power.



The PRO-L16 is a low voltage PWM dimmable MR-16 LED fixture which is flicker-free when controlled using a camera safe LED high-frequency LED dimmer such as the ProSpeed 4-LITE.

The PRO-L16 is available in Variable White, RGB+Tungsten or RGB+Daylight versions. The CRI of the white emitters is >93.

TECHNICAL

Input Voltage12VdcPower Supply TypeClass 2 (Not Included)Current8W or 12W (model dependent)CRI93+ (White Emitter)PF ≥ 0.9 Beam Angle36 degree (standard)Environmental Temperatures $-20 \sim 37.5^{\circ}$ CMaximum wire size16AWG (1.55mm²)3.81mm pluggable header screw torque1.77 Lb.in (0.2 N.m)

MODELS

Model Number	Туре	Electrical Specifications		Ţ	Boxed Dimensions (mm)			We
		Volts DC	Power	Rating	Length	Width	Depth	Weight (kg)
PROL16-12-RGBT-12-#	12Vdc, 12W, RGB+Tungsten	12	12W	20	70	70	110	0.21
PROL16-12-RGBD-12-#	12Vdcd, 12W, RGB+Daylight	12	12W	20	70	70	110	0.21
PROL16-12-RGBT-8-#	12Vdc, 8W, RGB+Tungsten	12	8W	20	70	55	90	0.185
PROL16-12-RGBD-8-#	12Vdc, 8W, RGB+Daylight	12	8W	20	70	55	90	0.185

= Connector Type (1 = 3.81mm Pluggable header)

CONNECTIONS

DC Input

Connect the PRO-L16 to any PWM LED dimmer powered by a Class 2 Power supply using the +Vdc input and one channel of control to each -Vdc terminal using appropriate wire gauge for the connected loads.

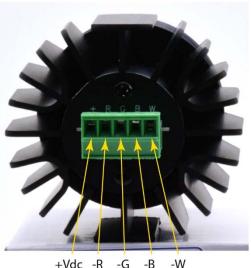
For Connector Type 1 (3.81mm Pluggable Header) the wires should be stripped to between 6mm and 7mm, and ferrules are recommended for stranded wire.

Ensure you are connecting the PRO-L16 to the correct voltage power supply:

• 12Vdc units must only be connected to a dimmer using a 12Vdc Class 2 constant voltage power supply

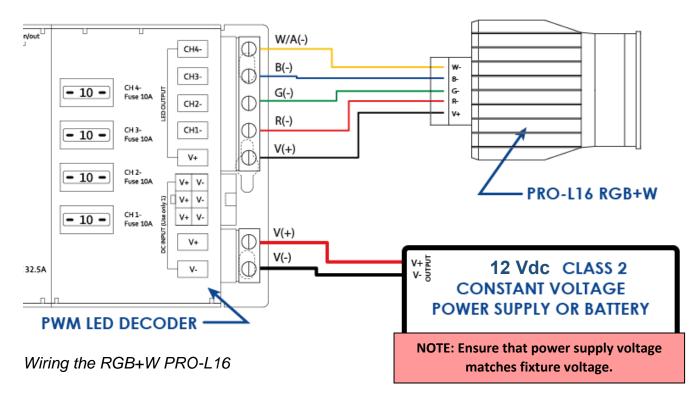
The Type 1 input connectors (3.81mm Pluggable connectors) have a maximum amperage rating of 8A per position.

Please ensure that your total connected load remains below this maximum rating.



+Vdc -R -G -B -W RGB+W Variant Wiring

WIRING DIAGRAMS



MOUNTING OPTIONS

The PRO-L16 can be easily installed into most existing MR-16 mounting rings. Ensure that the mounting ring is capable of retaining the weight of the PRO-L16 and that the PRO-L16's heat sinks have good airflow to facilitate cooling of the fixture.

Reduced airflow will increase heat within the fixture and shorten the life of the lamp.

