FLICKERFREELED

PRO-L16 USER MANUAL

Version 0.5

Support email:

support@flickerfreeled.com

Support website:

www.flickerfreeled.com/support



IMPORTANT!

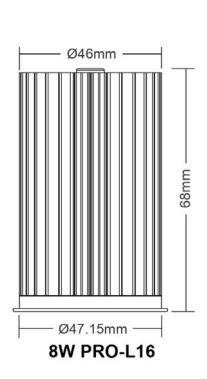
User must read and understand all instructions prior to installation. Important operational and safety information is contained within this manual.

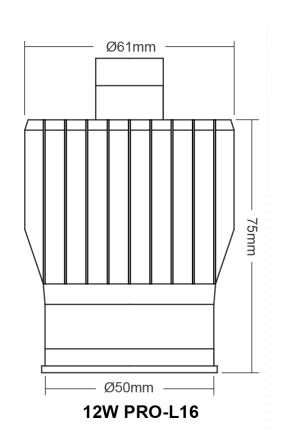
SAFETY AND WARNINGS:

- For professional use only.
- Always use a power supply that matches the input voltage of the fixture (12Vdc or 24Vdc)
- Please ensure you are using the correct wire gauge for the connected loads.
- Please do not fully enclose the fixture. Air movement must be possible 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.

Support: support@flickerfreeled.com

DESCRIPTION





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 are >95.

TECHNICAL

Input Voltage 12Vdc or 24Vdc (model dependent)

Current 8W or 12W (model dependent)

CRI 95+ (White Emitter)

PF ≥0.9

Beam Angle 36 degree (standard), 20 degree (optional)

Environmental Temperatures -20 ~ 45°C

Maximum wire size 16AWG (1.55mm²)

3.81mm pluggable header screw torque 1.77 Lb.in (0.2 N.m)

MODELS

| Mod | Туре | Electrical Specifications | | ₽ | Boxed Dimensions (mm) | | | We |
|--------------------|----------------------------|------------------------------|-------|--------|-----------------------|-------|-------|-------------|
| Model Number | | Volts DC | Power | Rating | Length | Width | Depth | Weight (kg) |
| PROL16-RGBT-12V12W | 12Vdc, 12W, RGB+Tungsten | 12 | 12W | 20 | 70 | 70 | 110 | 0.21 |
| PROL16-RGBD-12V12W | 12Vdcd, 12W, RGB+Daylight | 24 | 12W | 20 | 70 | 70 | 110 | 0.21 |
| PROL16-VW-12V12W | 12Vc, 12W, Variable White | 12 | 12W | 20 | 70 | 70 | 110 | 0.21 |
| PROL16-RGBT-24V12W | 24Vdc, 12W, RGB+Tungsten | 24 | 12W | 20 | 70 | 70 | 110 | 0.21 |
| PROL16-RGBD-24V12W | 24Vdc, 12W, RGB+Daylight | 12 | W8 | 20 | 70 | 55 | 90 | 0.185 |
| PROL16-VW-24V12W | 24Vdc, 12W, Variable White | 24 | W8 | 20 | 70 | 55 | 90 | 0.185 |
| PROL16-RGBT-12V8W | 12Vdc, 8W, RGB+Tungsten | 12 | W8 | 20 | 70 | 55 | 90 | 0.185 |
| PROL16-RGBD-12V8W | 12Vdc, 8W, RGB+Daylight | 12 | W8 | 20 | 70 | 55 | 90 | 0.185 |
| PROL16-VW-12V12W | 12Vdc, 8W, Variable White | 12 | W8 | 20 | 70 | 55 | 90 | 0.185 |
| PROL16-RGBT-24V8W | 24Vdc, 8W, RGB+Tungsten | 24 | W8 | 20 | 70 | 55 | 90 | 0.185 |
| PROL16-RGBD-24V8W | 24Vdc, 8W, RGB+Daylight | 24 | W8 | 20 | 70 | 55 | 90 | 0.185 |
| PROL16-VW-24V8W | 24Vdc, 8W, Variable White | 24 | 8W | 20 | 70 | 55 | 90 | 0.185 |

CONNECTIONS

DC Input

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

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 constant voltage power supply
- 24Vdc units must be only connected to a dimmer driven by a 24Vdc constant voltage power supply

The input connectors have a maximum amperage rating of 8A per position. Please ensure that your total connected load remains below this maximum rating.

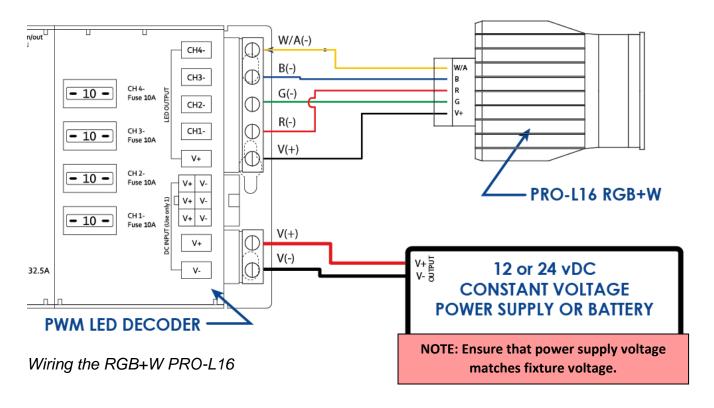


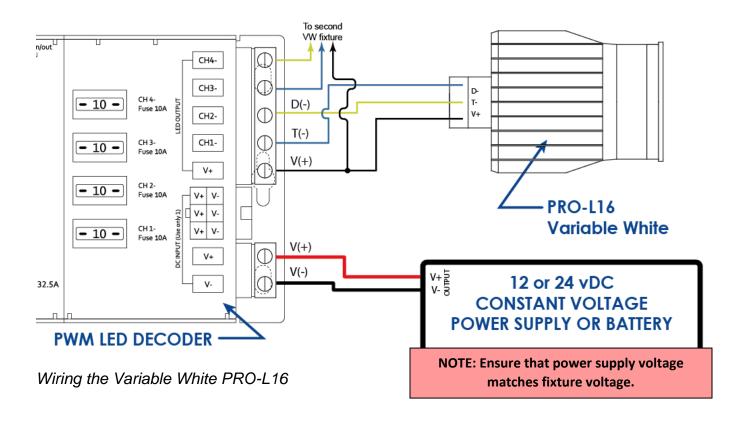
Support: support@flickerfreeled.com

flickerfreeled.com is owned and operated by Project SSSHH Incorporated

Page 3

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.

Support: support@flickerfreeled.com