UltraFlex RGB LED Strip Specifications & Installation Guide

Digilin
AUSTRALIA

High performance, high efficiency compact FLEXIBLE RGB colour mixing LED light strip.

Specifications

Digilin Stock Code	UFL5000-RGB
Input Power	24VDC, 800mA per colour

⚠ Safety Notes

Do Not exceed rated maximum voltage
Check supply circuit before energising
Do Not connect separate power drivers together
Do Not press on the LEDs when installing
Do Not over flex the strip
Turn off before cleaning
Clean only with non-conductive brush

For more information please contact

lightmoves (03) 9701 2500
info@lightmoves.com.au
138-146 Browns Rd, Noble Park VIC 3174

At The Forefront of LED & Fibre Optic Lighting Technologies

Table Of Contents

Specifications

		Per Colour	Total
Drive Voltage	Nominal		24VDC
	Minimum		23VDC
	Absolute Maximum		25VDC
Drive Current	Per metre	160mA	480mA
	Per Reel	800mA	2.4A
Watts	Per metre	3.84W	11.52W
	Per Reel	19.2W	57.6W
Beam Angle			120°
Maximum length of strip from power connection	Metres		5
	Reels		1

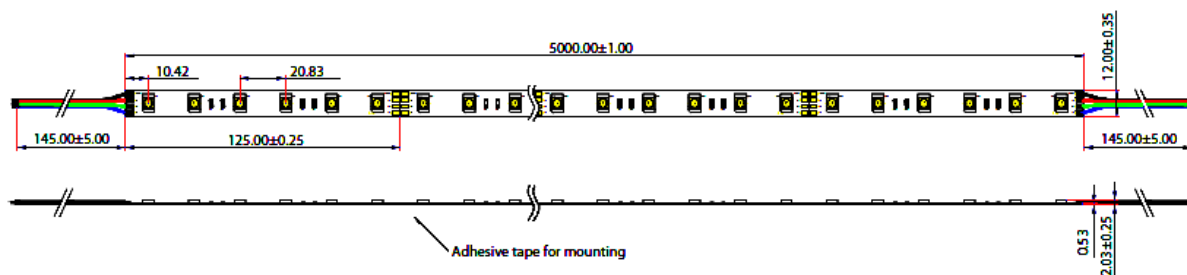| Digilin Part Code	Colour	Wavelength	Lumens per	
			Metre	**Reel**
UFL5000-RGB	Red	620~630nm	57.6	288
	Green	520~535nm	130.4	652
	Blue	465~475nm	38.4	192

Power Driver Maximum Load Capacity

Power Driver	Dimmable	Rated		Recommended Max current (continuous)	Max Load Capacity	
		Power	**Current**		**Metres**	**Reels**
LDMX-PWM-3	Yes	144W	3 x 2A	3 x 2A	3 x 5.5	3 x 1.375

LDMX-PWM-3 requires an external 24V power supply (LPC-CLG-150-24)

Dimensions

All dimensions in mm

UltraFlex **RGB** LED Strip is supplied in 5m Reels, LED spacing 20.83mm.
Each reel has a total of Qty 40 - **125mm** segments.
Note: **125mm** segment is minimum usable length.

Installation

Mounting

- Do not attempt to make sharp bends with the strip. Right angles should be achieved by cutting the strip and joining with wires.
- Over-flexing the strip may cause it to snap.
- **Do not** press on the LEDs when installing. Doing so may damage the LEDs.
- Clean the surface to be mounted to with isopropyl alcohol first.
- Do not install where water or high humidity may be present without further protection. Note that the Javelin extrusion is NOT sealed.
- Do not mount with the components or board touching any flammable surfaces.
- Do not install under mechanical stress
- Allow for expansion due to changes in temperature.
- Please be aware that while the system has a very long operational life, faults may still occur and provision needs to be made for maintenance.

Wiring

- No continuous run of strips should exceed the specified maximum run value without additional power feeds. Refer to the wiring diagram.
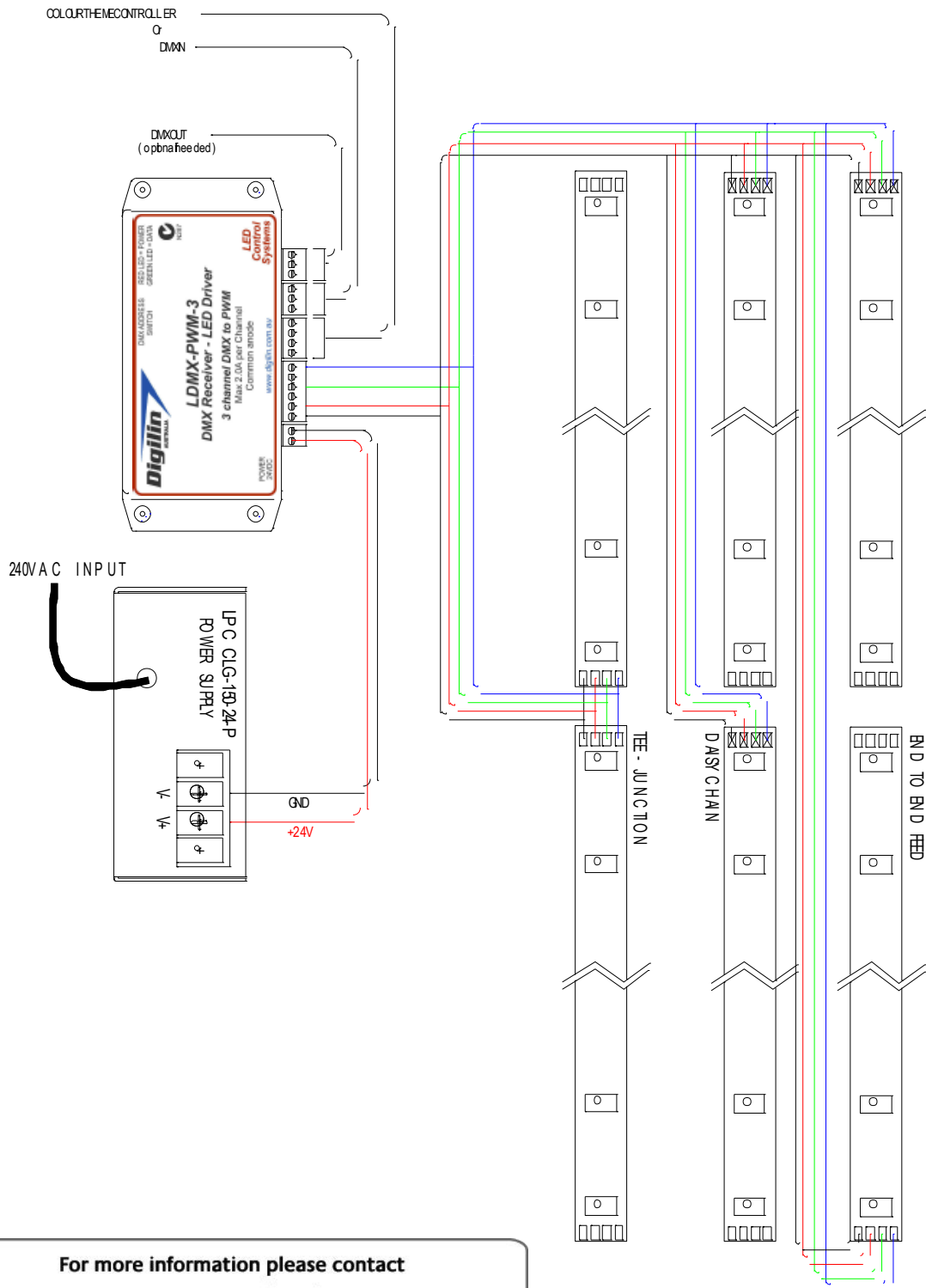- Only join strips powered by the same supply

Maintenance

- Strips normally require no maintenance except for light cleaning
- Isolate from power before accessing
- Visually inspect strips at the time for any obvious faults
- The strips may be dusted with a non conductive brush. No fluids should be used
- If this procedure does not remove contaminants please contact Digilin for further advice.

Wiring Diagram – RGB Dimming – LDMX-PWM-3

The diagram below shows 3 **options** to connect two 5m lengths of UltraFlex **RGB** LED Strip, End To End, Daisy Chained and Tee-Junction.

Note: Do not exceed **Maximum Load Capacity** for Power Driver.

Note: Do not exceed **Maximum Length of Strip** from power connection.

For more information please contact

lightmoves

(03) 9701 2500
info@lightmoves.com.au

138-146 Browns Rd, Noble Park VIC 3174