

MicroPowerFlex

Flexible High Density LED Strip

Specifications & Installation

Guide



LED Lighting and Control
Designed and Manufactured in Australia

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Product specifications are subject to change without notice.

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Safety Notes

- Do not press on the LEDs when installing
- Do not over flex the strip
- 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.
- DALI is not SELV and installation must therefore follow appropriate standards

Specifications

Inputs

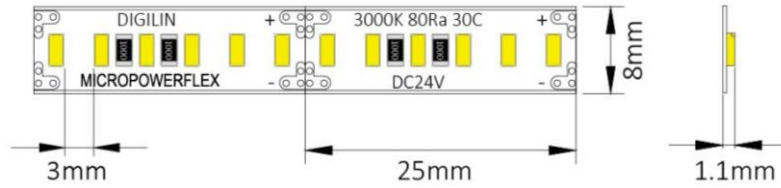
		M24	M16	M08	Units
Voltage	Nominal	24	22	19.5	VDC
	Min	23	21	18.5	
	Absolute Max	25	23	20.5	
Drive Current		1010	765	440	mA/m
Watts		24.24	16.83	8.58	W/m
Maximum run from power connection		4			m

Optical

		White		Units
Order Code		W30	W40	
Beam Angle		110		°
Colour Temp		3000	4000	K
CRI		80		
Typical Lumens	M24	2400	2450	lm/m
	M16	1815	1855	
	M08	1045	1067	

Dimensions

All dimensions in mm



MicroPowerFlex LED Strip is supplied in 10m Reels, LED spacing 4.4mm (centres).

Each reel has a total of Qty 400 - **25mm** segments.

Note: **25mm** 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 extrusion options are 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

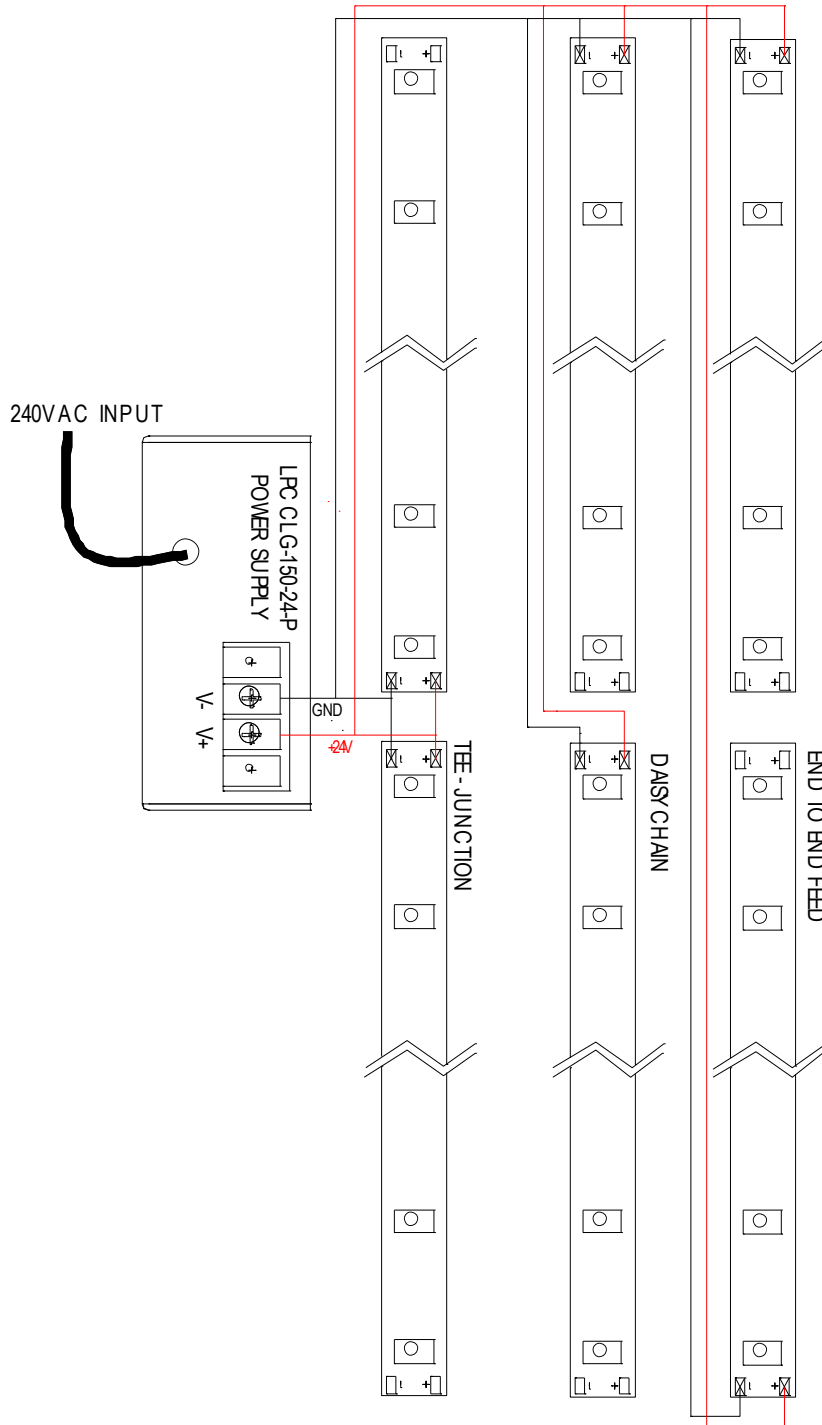
- Strips normally require no maintenance except for light cleaning
- Isolate from power before accessing
- Visually inspect strips at the time for any obvious faults
- The strips may be dusted with a non conductive brush. No fluids should be used
- If this procedure does not remove contaminants please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

Wiring Diagram – Single Colour – Non-Dimming

The diagram below shows 3 options to connect two 4m lengths of MicroPowerFlex **Single Colour** 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.



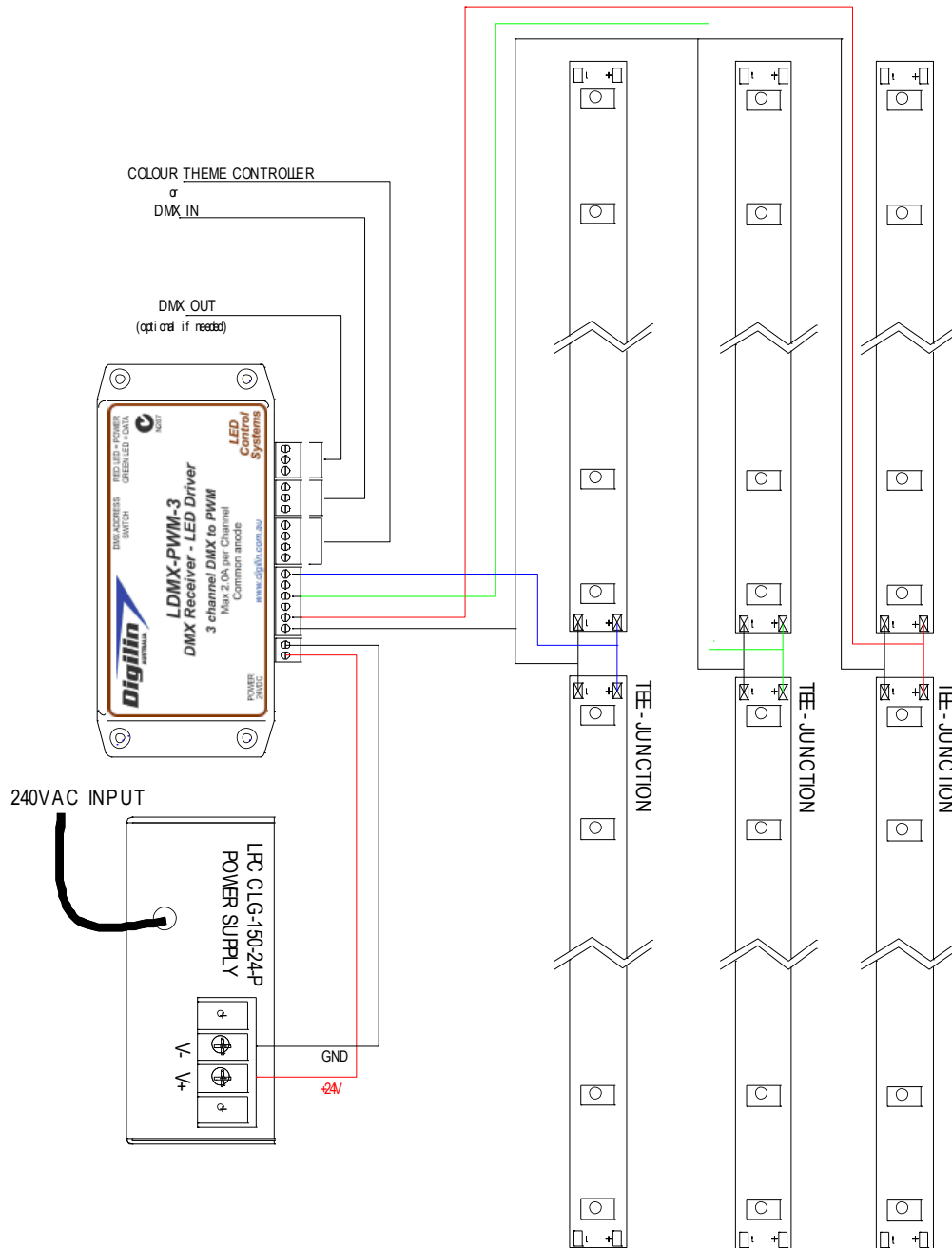
Wiring Diagram – Single Colour Dimming – LDMX-PWM-3

The diagram below shows Tee-Junction connections for six lengths of MicroPowerFlex **Single Colour** LED Strip.

Note: Daisy Chained or End To End are two other connection options.

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

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



Wiring Diagram – Single Colour Dimming – LDP-CV-5A

The diagram below shows 3 options to connect six lengths of MicroPowerFlex Single Colour 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.

