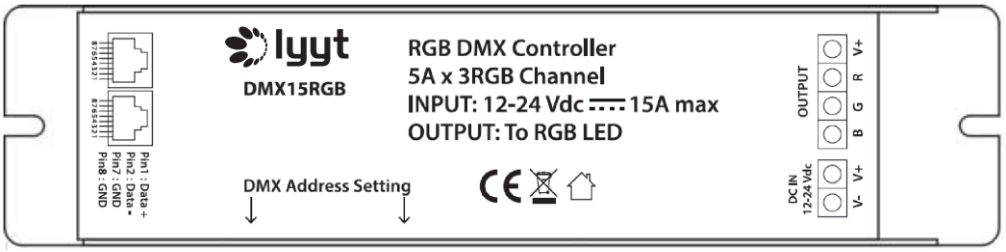
DMX15RGB

DMX – RGB Decoder

Item ref: 153.776UK

User Manual

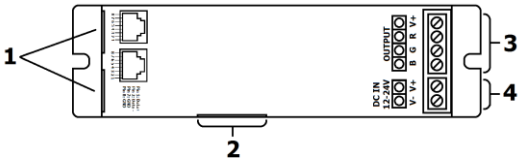


⚠	Caution: Please read this manual carefully before operating Damage caused by misuse is not covered by the warranty

Introduction

The DMX15RGB is a controller for RGB LED tape, strip or luminaires which operates by decoding a standard DMX512 control signal and delivering Red, Green, Blue and Voltage+ output to the lighting product. The DMX15RGB can operate with either 12Vdc or 24Vdc supply to cover the most popular types of LED lighting products.

Layout



1. DMX512 input and output
2. DIP switches
3. R, G, B, V+ output terminals
4. 12/24Vdc power input

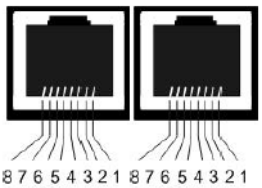
Setting up

Install the DMX15RGB in a convenient position with adequate access to terminals, DIP switches and connections. Notches in the end tabs can be used for surface mounting with screws or bolts.

Connect R, G, B and V+ output terminals (3) to the red, green, blue and DC positive inputs on the RGB tape, strip or luminaire.

Connect DMX signal from a controller or other decoder to the RJ45 input (1) on the end of the DMX15RGB. The other RJ45 connector is an output and can be used to continue the DMX signal onto further decoders or DMX units. Pin-out shown below.

DMX Connectors Pin-out

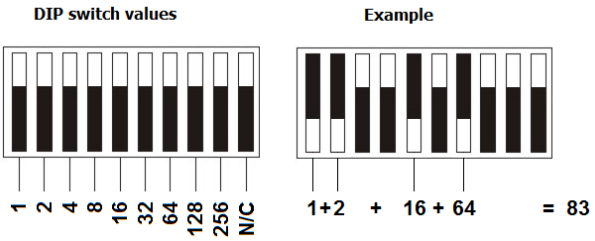


1	DMX512 data +
2	DMX512 data -
3, 4, 5, 6	not connected
7, 8	Ground

Connect a suitable DC power supply to the DC input (4) for the RGB tape, strip or luminaire. This may be 12V or 24V and should have enough current capacity (up to 15A) for the LEDs which are being controlled. If longer runs than 15A are needed, use further DMX15RGB decoders.

Set the DMX start address using the DIP switches at the side of the DMX15RGB as shown overleaf.

DMX start address DIP switch settings

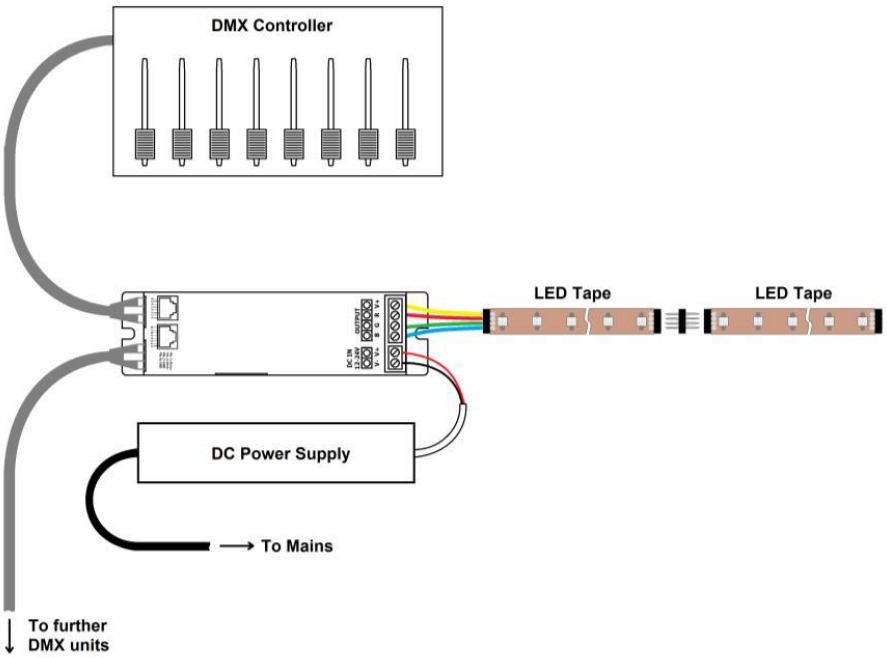


Each DIP switch represents a binary number so that moving that switch to the "down" position adds that number to the DMX start address value. Combinations of these switches offer any number from 0 to 511.

With the above example with DIP switches on for 1, 2, 16 and 64, the start address will be 83. Therefore, DMX ch. 83 will control Red level, 84 will control Green and 85 will control Blue.

Note: a value of "0" switches all RGB channels on with full output (i.e. white)

Setup Example



Specifications

Voltage	12/24Vdc
Working temperature	0°C - 70°C
DMX connection	2 x RJ45 (input, output)
Output connections	B, G, R, V+
Max current per channel	5A
Dimensions	177 x 42 x 34mm
Weight	242g

Troubleshooting

No output with all DIP switches in the off position	With all DIP switches off, there should be full RGB output
	Check power supply is connected correctly
	Check power is correct type for the LED tape, strip or luminaire
	Ensure RGB and V+ connections are the correct way round
No response to DMX	Check DMX leads are connected properly
	Check the pin-out is correct for Data+, Data- and GND
	Check that the DMX start address is the same as controller
R, G, B wrong channels	Check that the DMX start address is the same as controller

Disposal: The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

Errors and omissions excepted.