



## Product Overview

The Modulation Driver is the enabling force in the Tryka range of RGB L.E.D. colour change products. It has been designed to maximise the life and performance of Tryka's next generation L.E.D. technology.

The Modulation Driver is easy to use and install with plug and socket connections for mains input, L.E.D. output and on board DMX interface.

The compact design unit can be located with fixtures or remote mounted.

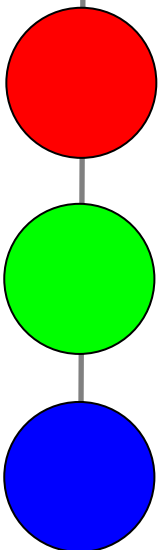
## Features

- Optimised for prolonged life of LEDs
- 3 individually addressable outputs via DMX
- Smooth dimming control 0 – 100%
- Thermal feedback protection
- Highly efficient dual function power electronics
- Short and open circuit protected
- Meets lighting approbation requirements (CE)
- Rugged Construction
- Self test functions
- Plug & socket Connections
- Can be remote or integral mounted



# Modulation Driver

Power supply



## Specifications

### Electrical

#### Input

Input Voltage Range	: 195–265Vac 50-60Hz
Power Consumption	: 6 – 54W
Power Factor	: 0.95
Connection	: Wieland GST18 Connector
Insulation Class	: One

#### Output

Power Output Range	: 4.8–14.4W per channel
Maximum Output Current	: 350mA at 100%
Maximum Output Voltage	: 48Vdc
Connection	: Molex Micro fit 3 connector

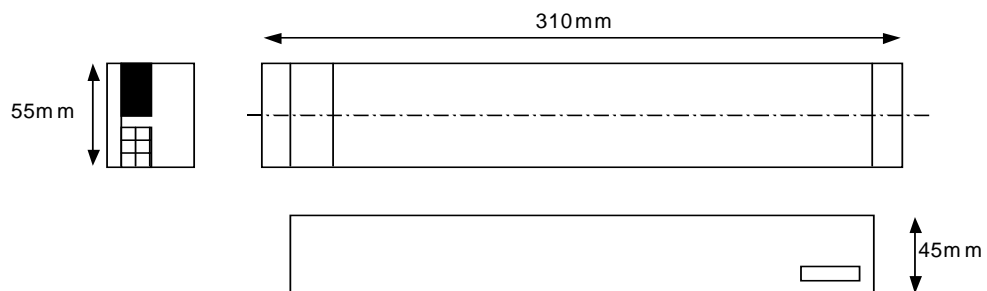
#### Control Input

Dimming Control	: DMX512
Connection	: RJ45 loop in and out
Dimming Range	: 0 – 100 %
Address Range	: 1 – 505 via DIP switch
Channel 1	: RED (= start address)
Channel 2	: GREEN
Channel 3	: BLUE
Line terminator fitted	

#### Mechanical

Mounting	: 2 M3 size slots on centre line
Construction	: Zintec coated mild steel 1.0 mm to IP20

#### Dimensions

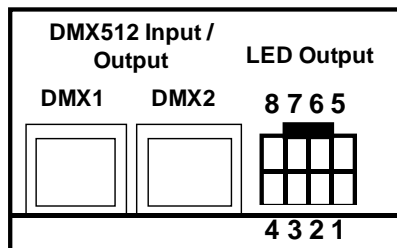


#### Environmental

Operating Ambient Temperature	: -10°C to + 40°C
Storage Ambient Temperature	: -20°C to + 70°C
Case Temperature	: +65°C
Relative Humidity	: 80%
Lifetime (failures after 50,000 hours)	: 5%

## Wiring Connections

Useful Information – DMX Connection Protocol			
Function	Cable Colour	RJ45 Connector Pin	XLR Connector Pin
Common	White/Brown	<b>7</b>	<b>1</b>
Common	Brown	<b>8</b>	<b>1</b>
Data -	Orange	<b>2</b>	<b>2</b>
Data +	White / Orange	<b>1</b>	<b>3</b>

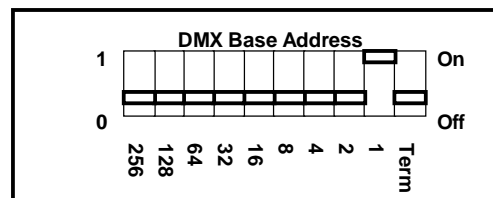


### Warning!

Accidental connection to non-DMX512 equipment likely to be encountered (e.g. an Ethernet Hub) may result in damage to equipment.

LED Output Connections	
PIN	Function
1	RED Common (+)
2	GREEN Common (+)
3	BLUE Common (+)
4	Temperature sensor
5	RED Output (-)
6	GREEN Output (-)
7	BLUE Output (-)
8	Temperature Sensor

### DMX Address selection



### Address Self Test functions

- 0 = White Mix
- 511 = Self Test Cycle
- 510 = RED full output
- 509 = GREEN full output
- 508 = BLUE full output
- 507 = All channels full output

### NOTE

Address is set when power is first applied. To change address disconnect mains power, change DIP switch and reconnect.

## Selection Guide

TC-CD36 Tryka Modulation Driver with DMX interface



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As part of our continuous product development we reserve the right to amend these specifications without prior notice.

Power supply

