

COLOURDRIVER 36TM DMX control LED Power Driver

Product Overview

The COLOURDRIVERTM range of dimming LED Power Drivers represents true innovation in LED technology. Designed to optimise the performance of LEDs COLOURDRIVERTM incorporates a host of world leading features.

Excellent dimming (0-100%) is achieved via an on board DMX512 interface combined with PWM power control.

A unique thermal feedback circuit constantly monitors LED temperature ensuring maximum reliability and protection.

COLOURDRIVERTM is available in a range of options from stand alone remote ballasts, IP65 enclosed or OEM modules for integration within light fixtures.



Features

- 3 Fully Addressable constant current outputs
- Digital Dimming level from 0 100 %
- On board DMX512 compliant control interface
- LED temperature compensation feedback
- Energy efficient switch mode power electronics
- Short and open circuit protected
- Long Life (> 50,000 hours)
- High quality rugged construction
- Meets lighting approbation requirements (CE)
- Compliant with LuxeonTM Power Light Sources
- Can be remote mounted from LEDs ~ 30 meters

Typical Applications

- RGB Colour Mixing
- Floodlighting
- Cove & Cornice Lighting
- Signalling
- Signage
- Fibre Optic systems
- Architectural Lighting





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Tel ++ 44 1423 798255 Fax ++44 1423 798266 www.lumidrives.com





COLOURDRIVER 36[™] DMX control LED Power Driver

Electrical Specifications

Input

Output

Power Output Range : Poch : 4.8 – 14.4 W Per Channel

Output Current : I_{och} : 350mA @ 100%

Output Voltage : Vo : 48Vdc

Control Input

Dimming Control : DMX : DMX512

Dimming Method : Constant Current PWM Address Range : n_{ad} : 1-505 via DIP switch

Special Address Functions : 0 = White Mix

: 511 = Self Test Cycle : 510 = Channel 1 100% : 509 = Channel 2 100% : 508 = Channel 3 100% : 507 = All Channels 100%

Temperature Feedback : t_{fb} : $10k\Omega$ SMT Thermistor Epcos B57621C103J62

Notes.

- Temperature feedback Thermistor (not supplied) should be mounted close to LEDs on Metal Clad PCB.
 Internal Control program is set to reduce power in the event of over temperature 80 °C and shut down 90°C if stability cannot be restored. DMX address needs to be set before power up. Address set via DIP switch array
- 2. DMX Line terminator selectable on board.
- 3. Output Isolation 3.0KV 50Hz
- For volume applications with single stand alone fixtures integral control can be programmed to provided desired output pattern.

Environmental







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Mechanical Dimensions

Construction : Zintec coated mild steel 1.0 mm to IP20

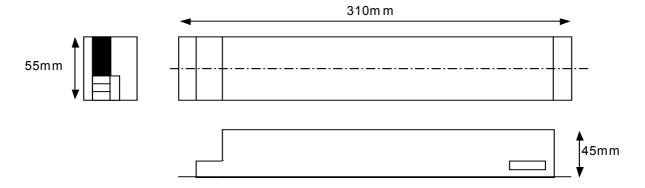
AC Input : Wieland 3 Pole GST18 Series Connector (1.0m lead supplied)

DMX Input : RJ45 Connector

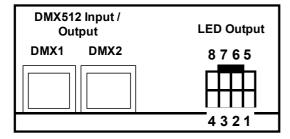
LED Output & : MOLEX Micro Fit 3.0 System (Female)

Thermal Feedback

Mounting : 2 slots M3 size screws



Driver Wiring Diagram



DMX / RJ45 LED Output

 Connections
 1
 : CH1 Common (+)

 Pin 1 : Data +
 2
 : CH2 Common (+)

 Pin 2 : Data 3
 : CH3 Common (+)

 Pin 7 : Common
 4
 : tfb 1

Pin 7 : Common 4 : tfb 1 Pin 8 : Common 5 : CH1 (-) 6 : CH2 (-)

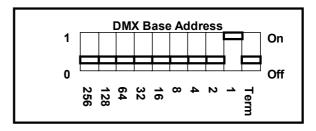
6 : CH2 (-) 7 : CH3 (-) 8 : tfb 2

Cable Connections using Category 5 Cable

White / orange : data +
Orange : data -

White / brown : signal common
Brown : signal common

DMX Address Selection



Eg - Address Shown = 1 = Channel 1

Line terminator is set to off

Warning.

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

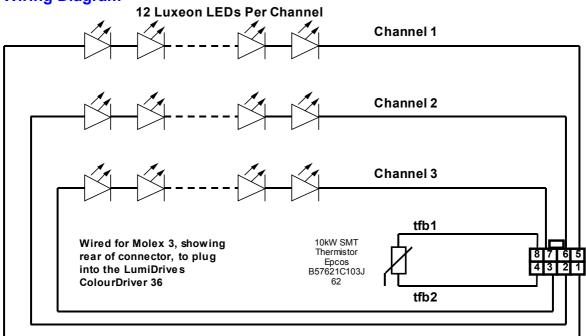


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LED Wiring Diagram



Selection Guide

Part No

Description

CDE- L-3-35 DMX

COLOURDRIVER 36 TM, Euro input voltage, Linear case, 3 Channel 350mA output, DMX Interface.

Dim DM:

Dimmina

DMX – DMX512 dimming interface

Current Output

35 - 350 mA Output Channels

Channels

3 - 3 Output Channels

Case Version

L - Linear

E – Exterior

O - OEM PCB Module

Input Voltage

E - European 230VAC

Contact

Lumidrives Ltd Knaresborough North Yorkshire United Kingdom

HG5 8LF **Tel** ++ 44 (0)1423 798 255

Fax ++ 44 (0)1423 798 266 www.Lumidrives.com





