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eldoLED LINEARdrive 180D

eldoLED LINEARdrive 180D DMX/RDM Constant Voltage LED Driver User Manual

Model: LINEARdrive 180D | Brand: eldoLED

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your eldoLED LINEARdrive 180D DMX/RDM Constant Voltage LED Driver. Please read this manual thoroughly before using the product and retain it for future reference.



Figure 1: eldoLED LINEARdrive 180D DMX/RDM LED Driver. This image displays the top view of the eldoLED LINEARdrive 180D, an intelligent LED driver/controller. Visible markings include 'eldoLED LINEARdrive', 'Intelligent LED Driver/Controller', 'IEC61347', 'EN55015 IEC61003 EN1547', 'VDC in SELV equivalent', ' η : 99% typ', 'Ta: -20°C to +50°C', and 'Tc: +65°C'. The device features a clear plastic casing, a digital display, and three control buttons.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Disconnect power before installation, maintenance, or any service.
- Do not operate the device outside its specified voltage and current ratings.
- Ensure proper grounding to prevent electrical shock.
- Do not expose the device to moisture or extreme temperatures beyond its operating range.
- This device is designed for indoor use unless otherwise specified.

3. PRODUCT OVERVIEW

The eldoLED LINEARdrive 180D is a high-performance, constant voltage LED driver designed for sophisticated lighting applications. It features DMX/RDM control capabilities and provides four independent LED outputs, making it suitable for dynamic and tunable lighting systems.

Key Features:

- **Constant Voltage Output:** Delivers stable voltage for consistent LED performance.
- **180W Power Output:** Capable of driving significant LED loads.
- **DMX/RDM Control:** Enables advanced digital control and monitoring of lighting fixtures.
- **4 Control Channels:** Provides flexibility for multi-channel LED applications.
- **Plastic Casing:** Durable and lightweight construction.

4. SETUP AND INSTALLATION

4.1. Unpacking

Carefully remove the LINEARdrive 180D from its packaging. Inspect the device for any signs of damage. If damage is found, do not proceed with installation and contact your supplier.

4.2. Mounting

Mount the driver in a location that allows for adequate ventilation and is free from excessive heat, dust, and moisture. Ensure the mounting surface is stable and can support the weight of the driver.

4.3. Wiring Connections

All wiring should be performed with the main power supply disconnected. Refer to the wiring diagram provided with the product for specific connection details. General connections include:

- **AC Input:** Connect the main power supply to the designated AC input terminals. Ensure correct polarity (Live, Neutral, Ground).
- **DC Output:** Connect your constant voltage LED fixtures to the four DC output channels. Observe correct polarity (+ and -) for each channel.
- **DMX/RDM Input/Output:** Connect DMX control lines (Data+, Data-, Ground) to the DMX terminals for digital control. Ensure proper termination of the DMX line.

5. OPERATING INSTRUCTIONS

5.1. Power On

After all connections are securely made and verified, restore power to the device. The integrated display will illuminate, indicating the device is operational.

5.2. DMX/RDM Control

The LINEARdrive 180D is controlled via DMX512 and RDM protocols. Use a compatible DMX controller to send commands to the driver. RDM allows for remote monitoring and configuration of the device, such as

setting DMX addresses and reading status information.

- **DMX Addressing:** Set the DMX start address using the onboard controls or via RDM. Each of the four output channels will typically occupy consecutive DMX addresses.
- **Channel Control:** Send DMX values (0-255) to the assigned addresses to control the intensity or other parameters of the connected LED fixtures.

5.3. Onboard Configuration

The device features a small display and control buttons for basic configuration, such as setting the DMX address or selecting pre-programmed modes. Refer to the detailed programming guide for specific menu navigation and parameter adjustments.

6. MAINTENANCE

The eldoLED LINEARdrive 180D is designed for reliable operation with minimal maintenance. Follow these guidelines:

- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect wiring connections for tightness and signs of wear or damage.
- **Ventilation:** Ensure that ventilation openings are not obstructed to prevent overheating.

For any internal servicing, contact qualified personnel only.

7. TROUBLESHOOTING

If you encounter issues with your LINEARdrive 180D, consult the following table:

Problem	Possible Cause	Solution
No power to device	Loose power connection, tripped breaker, faulty power supply	Check power connections, reset breaker, verify power supply voltage.
LEDs not illuminating	Incorrect wiring, faulty LEDs, DMX signal issue, incorrect DMX address	Verify LED wiring polarity, test LEDs, check DMX signal and address settings.
Intermittent operation	Loose connections, overheating, DMX signal interference	Secure all connections, ensure adequate ventilation, check DMX cabling and termination.
DMX control not responding	Incorrect DMX address, DMX cable fault, DMX controller issue	Verify DMX address, check DMX cable continuity, test with a different DMX controller.

If the problem persists after attempting these solutions, contact eldoLED technical support.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	LINEARdrive 180D

Feature	Specification
Control Channels	4
Control Protocol	DMX/RDM
Output Type	Constant Voltage (4xLED outputs)
Power Output	180W
Material	Plastic
Light Source Type	Light Emitting Diode (for connected fixtures)
Operating Temperature (Ta)	-20°C to +50°C
Case Temperature (Tc)	+65°C (maximum)
Efficiency (η)	99% typical
Compliance	IEC61347, EN55015, IEC61003, EN61547, SELV equivalent
UPC	715706905589

9. WARRANTY AND SUPPORT

9.1. Warranty Information

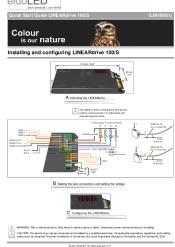
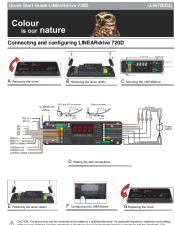
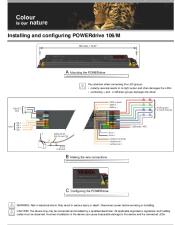
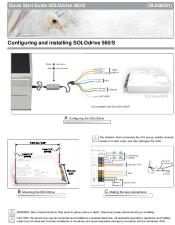
The eldoLED LINEARdrive 180D is covered by a manufacturer's warranty. Please refer to the warranty documentation provided with your purchase or visit the official eldoLED website for detailed terms and conditions. Keep your proof of purchase for warranty claims.

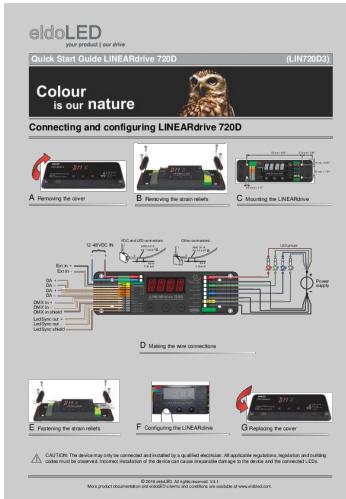
9.2. Technical Support

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact eldoLED customer support through their official website or the contact information provided with your product documentation.

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Related Documents - LINEARdrive 180D

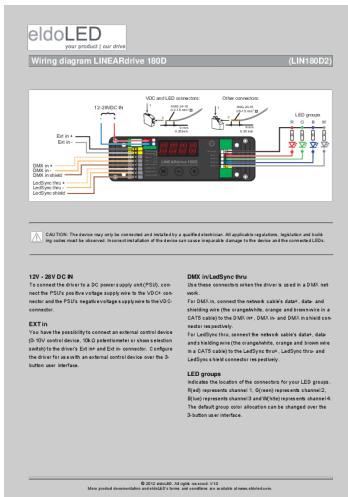
	<p>eldoLED LINEARdrive 100/S Quick Start Guide</p> <p>A quick start guide for installing and configuring the eldoLED LINEARdrive 100/S, covering manual configuration, other features, and safety precautions.</p>
	<p>eldoLED LINEARdrive DC Family LED Drivers - European Selection Datasheet</p> <p>Discover the eldoLED LINEARdrive DC Family LED Drivers, designed for constant voltage LED applications in cove lighting and architectural luminaires. This datasheet details models supporting DALI-2, DMX, 0-10V, and Casambi, offering flicker-safe dimming, programmable features, and compliance with global standards for high-quality lighting control.</p>
	<p>Quick Start Guide for eldoLED LINEARdrive 720D</p> <p>This guide provides instructions for connecting and configuring the eldoLED LINEARdrive 720D, a smart LED driver and controller. It covers manual configuration, LED group settings, standalone and networked operation modes, and factory reset procedures.</p>
	<p>eldoLED DUALdrive 560/L Datasheet: 50W DALI-2 LED Driver</p> <p>Detailed datasheet for the eldoLED DUALdrive 560/L, a 50W DALI-2, LEDcode compatible LED driver with 'Dim to Dark' functionality and support for Tunable White applications.</p>
	<p>eldoLED POWERdrive 106/M (PWR106M1) Quick Start Guide: Installation and Configuration</p> <p>A concise guide to installing and configuring the eldoLED POWERdrive 106/M LED driver (PWR106M1), covering wiring, setup, and operational modes for optimal performance.</p>
	<p>Quick Start Guide SOLOdrive 560/S</p> <p>A concise guide to configuring and installing the eldoLED SOLOdrive 560/S, including wiring diagrams and mounting instructions.</p>



Quick Start Guide for eldoLED LINEARdrive 720D

This guide provides instructions for connecting and configuring the eldoLED LINEARdrive 720D, a smart LED driver and controller. It covers manual configuration, LED group settings, standalone and networked operation modes, and factory reset procedures.

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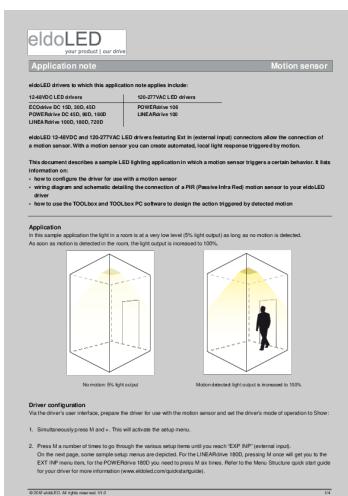
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Wiring diagram LIN180D2 V1 0 fm Fabienne WD LINEARdrive 180D LIN180D Tension Constante

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Wiring diagram LINEARdrive 180D LIN180D2 Ext in Ext in - DMX in DMX in DMX in shield LedSync thru LedSync thru LedSync shield 12 -28VDC IN - VDC and LED connectors: 1 AWG 24-16 0.2-1.5 mm2 2 Other connectors: 1 AWG 20-16 0.5-1.5 mm2 2 9 mm 0.35 inch 9 mm 0.35 inch Max V...

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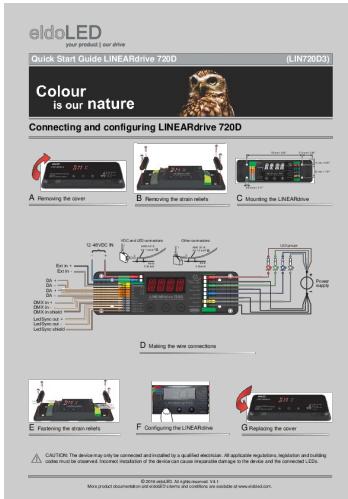


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Application note Panasonic motion sensor V1 fm fabienne AN Motion Sensor LIN180D LINEARdrive 180D Tension Constante EldoLED Soliled 6 soliled 2020 06 |||

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXT INP menu item, for the POWERdrive 180D you...

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Application note Astronomical clock for automated light output control V1 fm fabienne AN Astro Clock LIN180D LINEARdrive 180D Tension Constante EldoLED Soliled 6 soliled 2020 06 |||

Application note Astronomical clock eldoLED drivers to which this application note applies include ... 0 1/4 Application note Astronomical clock Below, some sample setup menus are depicted. For the LINEARdrive 180D, for example, pressing the M button once will get you to the EXT INP menu item, for...

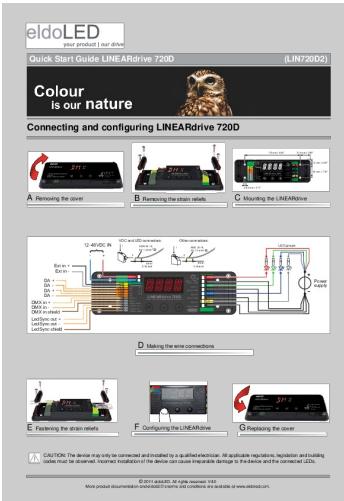
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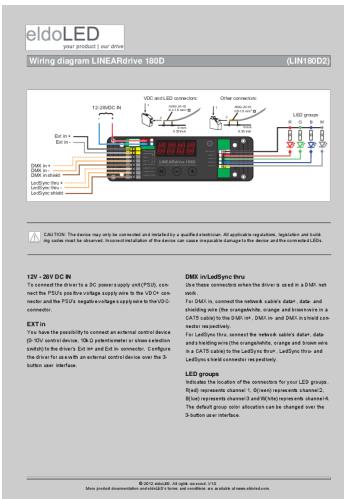
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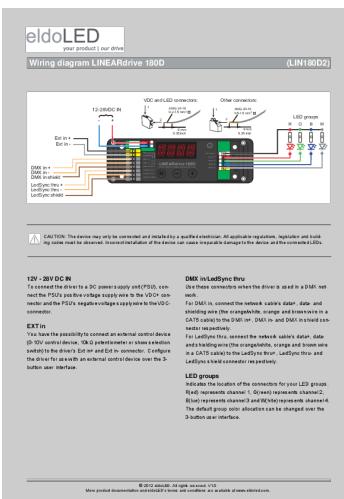


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Wiring diagram LIN180D2 V1 0 fm Fabienne View LINEARdrive Indoor Drivers for DC2DC DMX DALI applications with dimming to 1% wd lineardrive 180d v1 abl version 02 01 2024 05 00 15 DOC Type Diagram acuitybrands api products getasset eldoled 1992263 e47911ea a200 447c bfa0 18793c962c45 |||

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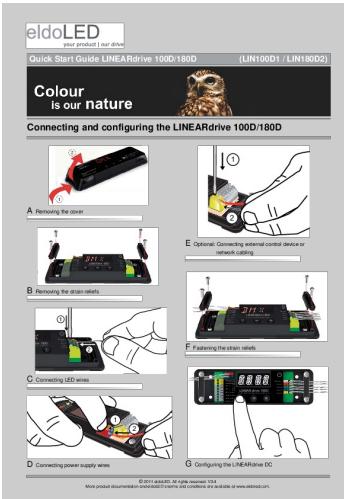


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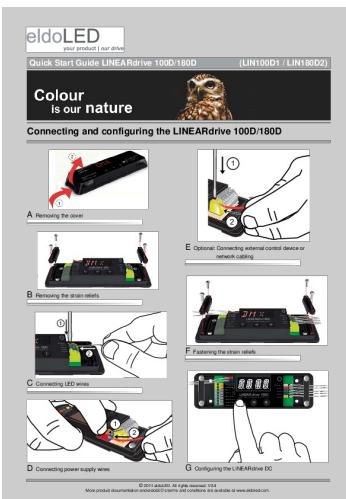


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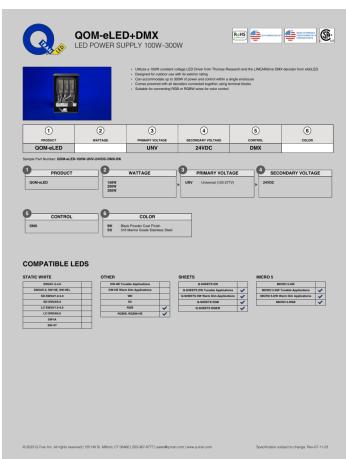


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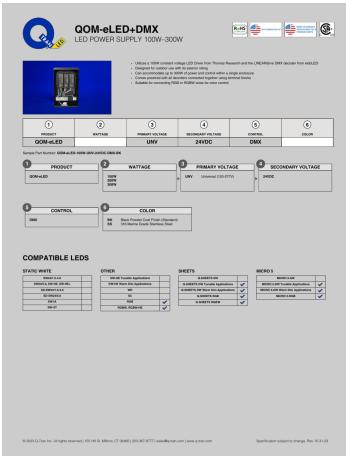


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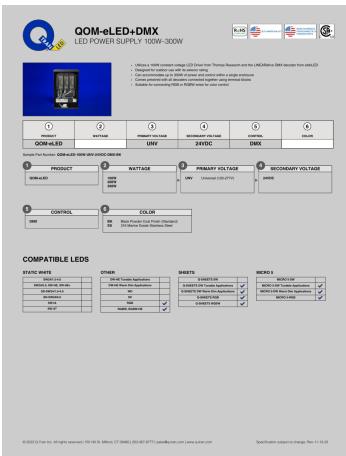
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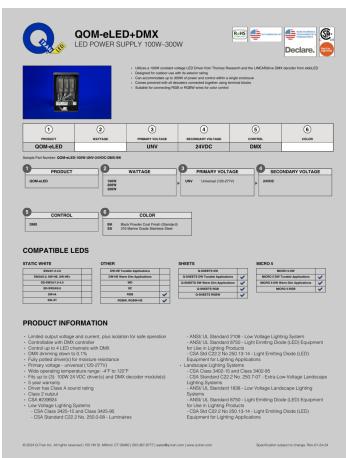
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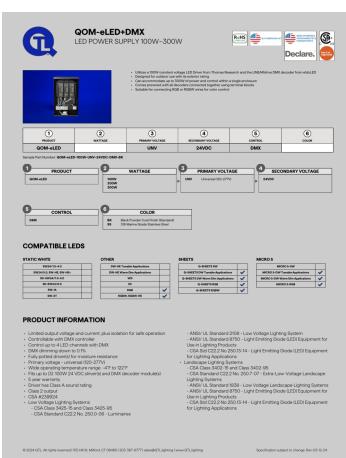
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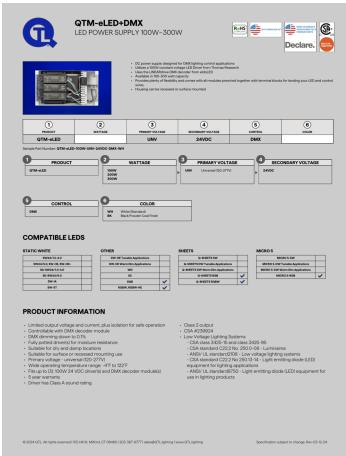
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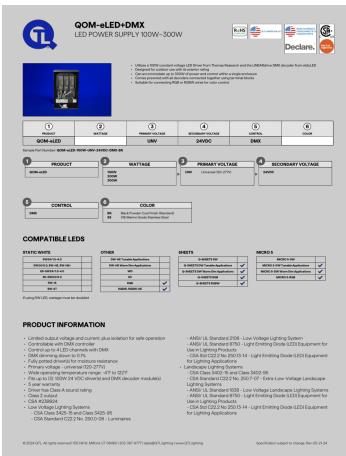
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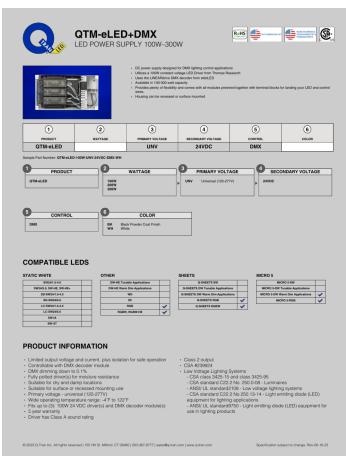
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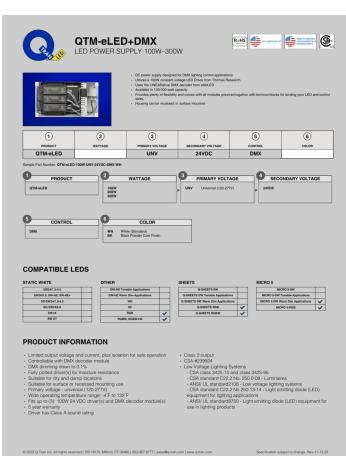


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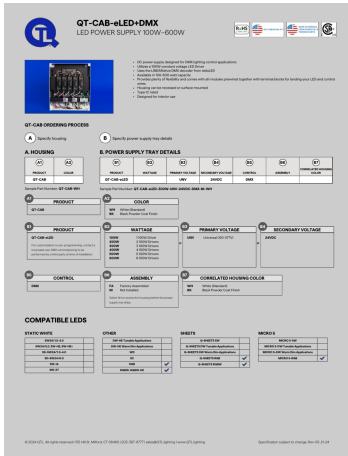
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QOM-eLED DMX LED POWER SUPPLY 100W300W Utilizes a 100W constant voltage LED Driver from Thomas Resea ... 120 - 277V GND HOT NEU DMX in DMX in DMX in shield LedSync thru LedSync thru LedSync shield LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver LINEARdrive 180D 12-28V / 6A Dire... lang:en score:33 filesize: 5.3 M page_count: 11 document_date: 0000-00-00

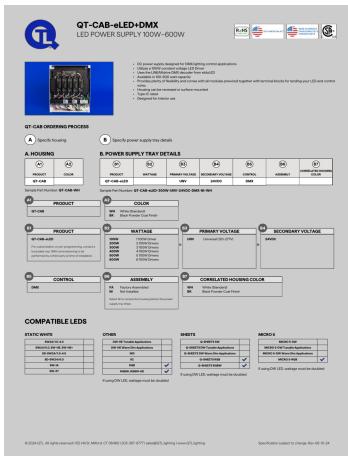
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[pdf] Specifications Guide

QT CAB eLED DMX Master Ordering Guide Set Technical Downloads IES Files CAD files Specs QTL formerly Q Tran qt cab eleddmx master ordering guide set 459 d 5222024105438 qtl lighting Customer Content www products |||

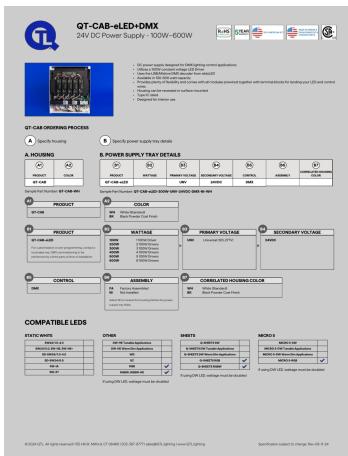
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lang:en score:33 filesize: 4.15 M page_count: 11 document date: 0000-00-00



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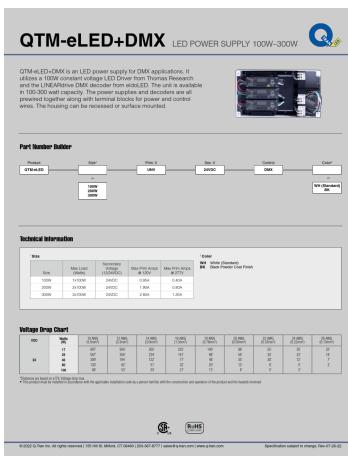
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[pdf] Specifications Guide

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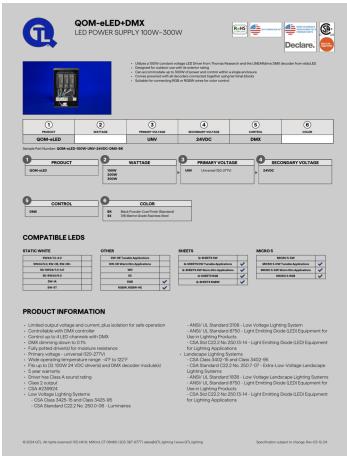
QT-CAB-eLED DMX 24V DC Power Supply - 100W600W DC power supply designed for DMX lighting control ap ... LED 120-277V LED DRIVER NEU HOT GND INPUT LOAD M - M - M - M - M - F M - A B C D E LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver LINEARdrive 180D 12-28V / 6A Dire...
lang:en score:33 filesize: 3.15 M page_count: 11 document date: 0000-00-00



[pdf] Guide

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QTM-eLED DMX LED POWER SUPPLY 100W300W QTM-eLED DMX is an LED power supply for DMX applications. It ... h Max Vdc 32V Vdc- DMX in DMX in shield LedSync thru LedSync thru LedSync shield LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver M TC LED supply Group 1 Group 2...
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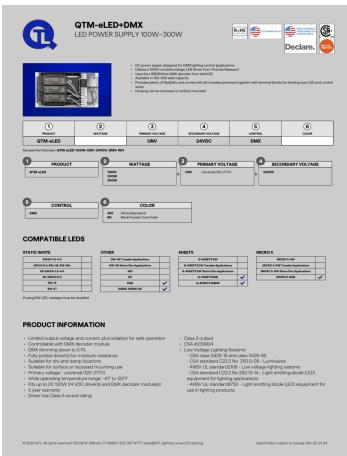


[pdf] Specifications Guide

QOM eLED DMX Master Ordering Guide Set Technical Downloads IES Files CAD files Specs QTL formerly Q Tran qom eleddmx master ordering guide set 44 d 3192024113529 qtl lighting Customer Content www products LED Power Supply 100 300W at 24VDC |||

QOM-eLED DMX LED POWER SUPPLY 100W300W Utilizes a 100W constant voltage LED Driver from Thomas Resea ... u LedSync shield GND HOT NEU GND HOT NEU iQ-LED NEU HOT GND LED DRIVER 120 - 277V GND HOT NEU LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver LINEARdrive 180D 12-28V / 6A Dire...

lang:en score:33 filesize: 5.51 M page_count: 11 document date: 0000-00-00

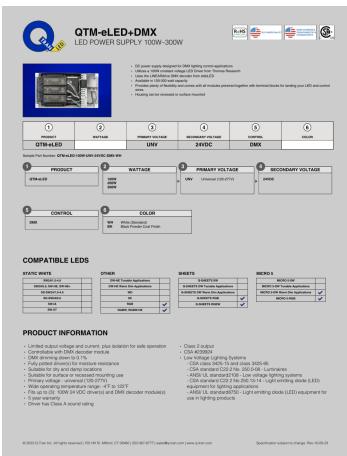


[pdf] Specifications Guide

QTM eLED DMX Master Ordering Guide Set Technical Downloads IES Files CAD files Specs QTL formerly Q Tran qtm eleddmx master ordering guide set 27 d 521202440413 qtl lighting Customer Content www products LED Power Supply 100 300W at 24VDC |||

QTM-eLED DMX LED POWER SUPPLY 100W300W DC power supply designed for DMX lighting control application ... u LedSync shield GND HOT NEU GND HOT NEU iQ-LED NEU HOT GND LED DRIVER 120 - 277V GND HOT NEU LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver LINEARdrive 180D 12-28V / 6A Dire...

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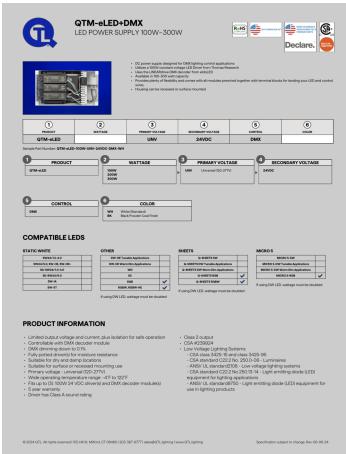


[pdf] Guide

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QTM-eLED DMX LED POWER SUPPLY 100W300W DC power supply designed for DMX lighting control application ... 120 - 277V GND HOT NEU DMX in DMX in shield LedSync thru LedSync thru LedSync shield LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver LINEARdrive 180D 12-28V / 6A Dire...

lang:en score:33 filesize: 4.44 M page_count: 11 document date: 0000-00-00



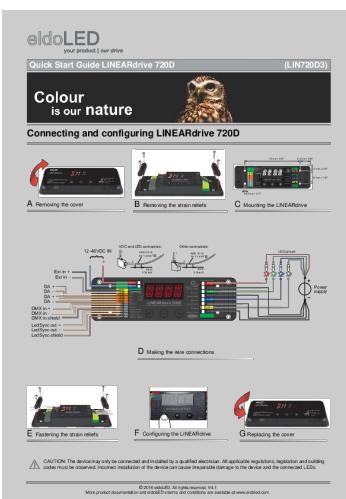
[pdf] Guide

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QTM-eLED DMX LED POWER SUPPLY 100W300W DC power supply designed for DMX lighting control application ... u LedSync shield GND HOT NEU GND HOT NEU iQ-LED NEU HOT GND HOT LED DRIVER 120 - 277V GND HOT NEU LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver LINEARdrive 180D 12-28V / 6A Dire...

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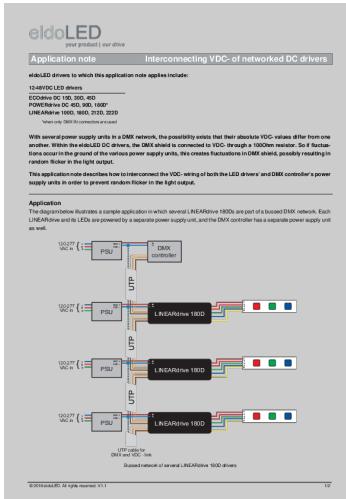


[pdf] Quick Start Guide Guide

untitled Connecting and configuring LINEARdrive 720D Quick Start Guide LIN720D3 A Removing the cover B strain reliefs C Mounting Intelligent LED Driver Controller IEC61347 EN55015 IEC61003 EN61547 M 130 VDC in SELV equivalent 99% typ Ta 20°C to 50°C Tc 65°C Ext 0900766b815debf1 docs rs online 45d2

Quick Start Guide LINEARdrive 720D LIN720D3 Connecting and configuring LINEARdrive 720D LINEARd ... 5C A Removing the cover DMX in DMX in shield LedSync thru LedSync thru LedSync shield LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver TC LED supply Group 1 Group 2 G...

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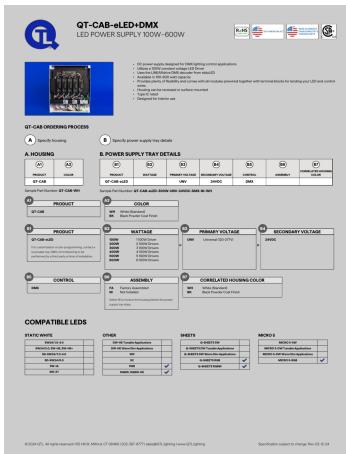


[pdf] Diagram

untitled AN Advanced Wiring DC Drivers V1 1 POWERdrive 45D EldoLED Soliled wiring drivers soliled 2020 06 |||

Application note Interconnecting VDC- of networked DC drivers eldoLED drivers to which this applic ... the light output. Application The diagram below illustrates a sample application in which several LINEARdrive 180Ds are part of a bussed DMX network. Each LINEARdrive and its LEDs are powered by a s...

lang:en score:32 filesize: 69.02 K page_count: 2 document date: 2020-07-01

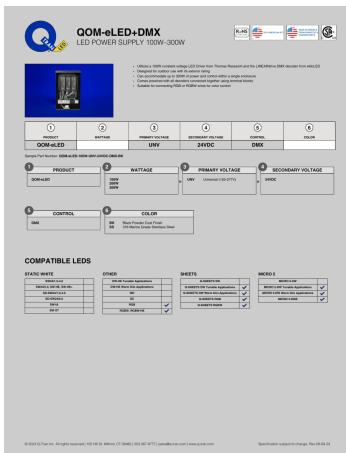


[pdf] Specifications Guide

QT CAB eLED DMX Master Ordering Guide Set 100W 600W LED Power Supply QTL Formerly Q Tran qt cab eleddmx master ordering guide set 459 d 315202414437 qtl lighting Customer Content www products Files Technical Downloads IES CAD files Specs formerly |||

QT-CAB-eLED DMX LED POWER SUPPLY 100W600W DC power supply designed for DMX lighting control applica ... LED 120-277V LED DRIVER NEU HOT GND INPUT LOAD M - M - M - M - F M - A B C D E LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver LINEARdrive 180D 12-28V / 6A Dire...

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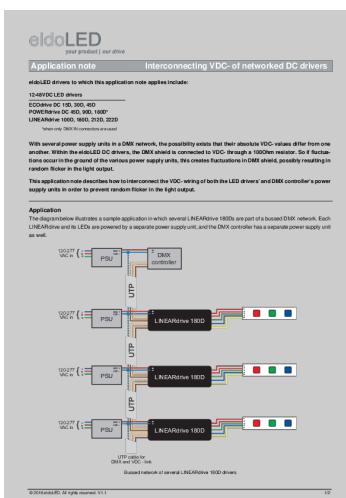


[pdf] Guide

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QOM-eLED DMX LED POWER SUPPLY 100W300W Utilizes a 100W constant voltage LED Driver from Thomas Resea ... 120 - 277V GND HOT NEU DMX in DMX in shield LedSync thru LedSync thru LedSync shield LINEARdrive 180D 12-28V / 6A Direct voltage controlled LED driver LINEARdrive 180D 12-28V / 6A Dire...

lang:en score:32 filesize: 6.26 M page_count: 12 document date: 0000-00-00



[pdf] Diagram

untitled AN Advanced Wiring DC Drivers V1 1 LINEARdrive 212D EldoLED Soliled wiring drivers 4 soliled 2020 06 |||

Application note Interconnecting VDC- of networked DC drivers eldoLED drivers to which this applic ... the light output. Application The diagram below illustrates a sample application in which several LINEARdrive 180Ds are part of a bussed DMX network. Each LINEARdrive and its LEDs are powered by a s...

lang:en score:32 filesize: 69.02 K page_count: 2 document date: 2020-07-01

eldoLED
your product | our driver

Application note Interconnecting VDC- of networked DC drivers

eldoLED drivers to which this application note applies include:

12-48VDC LED drivers
ECODrive 15D, 30D, 45D
POWERdrive 90D, 180D, 212D, 222D
LINEARdrive 100D, 180D, 212D, 222D

When several power supply units in a DMX network, the possibility exists that their absolute VDC values differ from one another. Within the eldoLED DC drivers, the DMX signal is connected to VDC through a 100Ωm resistor. So if fluctuations occur in the ground of the various power supply units, this creates fluctuations in DMX signal, possibly resulting in random flicker in the light output.

This application note describes how to interconnect the VDC- wiring of both the LED drivers and DMX controller's power supply units in order to prevent random flicker in the light output.

The application note illustrates a sample application in which several LINEARdrive 180Ds are part of a bussed DMX network. Each LINEARdrive and its LEDs are powered by a separate power supply unit, and the DMX controller has a separate power supply unit as well.

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[pdf] Diagram

untitled eldoLED drivers to which this application note applies include 12 48VDC LED ECOdrive DC 15D 30D 45D POWERdrive 90D 180D* LINEARdrive 100D 180D 212D 222D *when AN Advanced wiring V1 1 3 soliled 2020 06 |||

Application note Interconnecting VDC- of networked DC drivers eldoLED drivers to which this applic ... the light output. Application The diagram below illustrates a sample application in which several LINEARdrive 180Ds are part of a bussed DMX network. Each LINEARdrive and its LEDs are powered by a s...

lang:en **score:31** filesize: 69.02 K page_count: 2 document date: 2020-07-01

eldoLED
your product | our driver

Application note Interconnecting VDC- of networked DC drivers

eldoLED drivers to which this application note applies include:

12-48VDC LED drivers
ECODrive 15D, 30D, 45D
POWERdrive 90D, 180D, 212D, 222D
LINEARdrive 100D, 180D, 212D, 222D

When several power supply units in a DMX network, the possibility exists that their absolute VDC values differ from one another. Within the eldoLED DC drivers, the DMX signal is connected to VDC through a 100Ωm resistor. So if fluctuations occur in the ground of the various power supply units, this creates fluctuations in DMX signal, possibly resulting in random flicker in the light output.

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[pdf] Diagram

untitled eldoLED drivers to which this application note applies include 12 48VDC LED ECOdrive DC 15D 30D 45D POWERdrive 90D 180D* LINEARdrive 100D 180D 212D 222D *when View AN Advanced wiring V1 1 soliled 2020 06 |||

Application note Interconnecting VDC- of networked DC drivers eldoLED drivers to which this applic ... the light output. Application The diagram below illustrates a sample application in which several LINEARdrive 180Ds are part of a bussed DMX network. Each LINEARdrive and its LEDs are powered by a s...

lang:en **score:31** filesize: 69.02 K page_count: 2 document date: 2020-07-01

eldoLED
your product | our driver

Application note Motion sensor

eldoLED drivers to which this application note applies include:

12-48VDC LED drivers
ECODrive 15D, 30D, 45D
POWERdrive 90D, 180D, 212D, 222D
LINEARdrive 100D, 180D, 212D, 222D

eledoLED 10-48VDC and 120-277VAC LED drivers featuring Ext (external input) connectors allow the connection of a motion sensor. With a motion sensor you can create automated, local light response triggered by motion.

This document describes a sample lighting application in which a motion sensor triggers a certain behavior. It lists instructions on:

- how to configure the driver for use with a motion sensor
- wiring diagram and schematic detailing the connection of a PIR (Panasonic fabienne)
- how to use the TOOLbox and TOOLbox PC software to design the action triggered by detected motion

Application

In this example application the light in a room is at a very low level (5% light output) as well as no motion detected. As soon as motion is detected in the room, the light output is increased to 100%.

No motion, 5% light output
Motion-detected light output is increased to 100%

Driver configuration

Via the drivers user interface, prepare the driver for use with the motion sensor and set the driver's mode of operation to Show:

- Smatrix/zeno/zeno M ext. - You will activate the setup menu.
- Press M a number of times to go through the various setup items until you reach "EXP INP" (external input).
- On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXP INP menu item, for the POWERdrive 180D you need to press M four times. Refer to the Menu Structure quick start guide for your help for more information: www.eldoled.com/manuals/

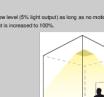
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[pdf] Diagram

Application note Panasonic motion sensor V1 fm fabienne AN Motion Sensor POWERdrive 45D EldoLED Soliled soliled 2020 06 |||

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXP INP menu item, for the POWERdrive 180D you...

lang:en **score:31** filesize: 193.91 K page_count: 4 document date: 2020-07-01

Application note	Motion sensor
www.eldoled.com your product / our drive	
wired-LED drivers to which this application note applies include:	
120-277VAC LED drivers	120-277VAC LED drivers
ECODriver 100, 120, 350, 600	PROFETIVE 100 LED
PROFETIVE 100, 350, 600	LINEAR 100, 120, 180, 270
LINER 100, 120, 180, 270	
wired-LED drivers 140-240VAC and 120-277VAC LED drivers featuring Exit (internal input) connectors allow the connection of motion sensors. With a motion sensor you can create automated, local light regions triggered by motion.	
This document describes a simple LED lighting application in which a motion sensor triggers a certain behavior. It illustrates how:	
- How to configure the driver for use with a motion sensor	
- How to connect the driver and motion sensor	
- How to create a local light region using the connection of a PIR (Passive Infrared) motion sensor to your wired-LED driver	
- How to use the TOOLbox and TOOLBOX PC software to design the action triggered by detected motion	
Application	
In this sample application the light in a room is at a very low level (5% light output) as long as no motion is detected. As soon as motion is detected in the room, the light output is increased to 100%.	
 	
Driver configuration	
The driver needs to interface, prepare the driver for use with the motion sensor and set the driver's mode of operation to Show.	
1. Selectively switch on PIR M+ and T. Then activate the setup menu.	
2. Press M a number of times to go through the various setup items until you reach 'EXP' (internal input).	
On the next page, some sample setup menus are depicted. For the LINEAR 100, pressing M once will get you to the EXP menu. Pressing M again will get you to the next menu, press twice M to leave. Refer to the Micro Structure quick start guide for your driver for more information on how to effectively use the setup menu.	

[pdf] Diagram

Application note Panasonic motion sensor V1 fm fabienne AN Motion Sensor POWERdrive 90D EldoLED
Soiled 2 soiled 2020 06 |||

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXT INP menu item, for the POWERdrive 180D you...

lang:en score:31 filesize: 193.91 K page_count: 4 document date: 2020-07-01

eldoLED
your product / our drive

Application note

Motion sensor

eldoLED drivers in which this application note applies include:

12-48VDC LED drivers

ECOBEST 10D, 35D, 60D

POWERLINE 10D, 35D, 60D

LUMINAflex 100D, 160D, 210D

eldoLED 14VDC and 120-277VAC LED drivers featuring Exit (external input) connectors allow the connection of a motion sensor. With a motion sensor you can create automated, local light source triggering a certain behavior. It lets you implement a simple LED lighting application in which a motion sensor triggers a certain behavior. It lets you implement a motion sensor:

- How to connect the driver with a motion sensor
- How to program and design the connection of a PIR (Passive Infrared) motion sensor to your eldoLED driver
- How to use the TOOLbox and TOOLBOX PC software to design the action triggered by detected motion

Application

In this sample application the light in a room is at a very low level (5% light output) as long as no motion is detected. As soon as motion is detected in the room, the light output is increased to 100%.

Driver configuration

To use the driver in user interface, prepare the driver for use with the motion sensor and set the driver mode of operation to Show.

1. Simultaneously press M and S. This will activate the setup menu.

2. Press M a number of times and go through the menu until you reach 'EXP' (PIR internal input).

On the next page, some sample setup menus are depicted. For the LUMINAflex 180D, pressing M once will get you to the EXP menu screen, but for the POWERLINE 100D you need to press M three times. Refer to the Micro Structure setup guide for your driver for more information: www.eldolighting.com/complicated-setupguide

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[\[pdf\]](#) Diagram

Application note Panasonic motion sensor V1 fm fabienne AN Motion Sensor POWERdrive 106 S
EldoLED Soliled 4 soliled 2020 06 |||

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXT INP menu item, for the POWERdrive 180D you...

lang:en score:31 filesize: 193.91 K page_count: 4 document date: 2020-07-01

[pdf] Diagram

Application note Panasonic motion sensor V1 fm fabienne Note Motion Sensor LINEARdrive 100 M
Eldol ED Soliled soliled 2020.06.11

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXT INP menu item, for the POWERdrive 180D you...

lang:en score:31 filesize: 193.91 K page_count: 4 document date: 2020-07-01

eldoLED
your product | our drive

Application note Motion sensor

eldoLED drivers to which this application note applies include:

124-000/100 LED drivers
ECODrive DC 100, 300, 400
POWERdrive DC 400, 800, 1000
LINEARdrive 1000, 1800, 7200

100-277VAC LED drivers
POWERdrive 106
LINEARdrive 106

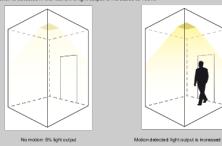
eldoLED 10-40VDC and 100-277VAC LED drivers featuring Ext (internal input) connectors allow the connection of a motion sensor. With a motion sensor you can create automated, local light response triggered by motion.

This document describes a sample LED lighting application which a motion sensor triggers a certain behavior. It lists information on:

- how to configure the driver for use with a motion sensor
- wiring diagram and schematic detailing the connection of a PIR (Panasonic Infrared motion sensor to your eldoLED driver)
- how to use the TOOLbox and TOOLbox PC software to design the action triggered by detected motion

Application

In this sample application the light in a room is at a very low level (5% light output) as long as no motion is detected. As soon as motion is detected in the room, the light output is increased to 100%.



No motion, 5% light output
Motion-detected light output is increased to 100%

Driver configuration

Via the driver's user interface, prepare the driver for use with the motion sensor and set the driver's mode of operation to Show:

1. Select the menu item M and . This will activate the setup menu.
2. Press M a number of times to go through the various setup items until you reach 'EXT INP' (external input). On the next page, some sample setup menus are depicted. For the LINEARdrive 1800, pressing M once will get you to the EXT INP menu item, for the POWERdrive 1800 you need to press M six times. Refer to the Menu Structure quick start guide for your driver for more information (www.eldoled.com/quickstartguide).

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[pdf] Diagram

Application note Panasonic motion sensor V1 fm fabienne AN Motion Sensor POWERdrive 106 M

EldoLED Soliled 3 soliled 2020 06 |||

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXT INP menu item, for the POWERdrive 180D you...

lang:en score:31 filesize: 193.91 K page_count: 4 document date: 2020-07-01

eldoLED
your product | our drive

Application note Motion sensor

eldoLED drivers to which this application note applies include:

124-000/100 LED drivers
ECODrive DC 100, 300, 400
POWERdrive DC 400, 800, 1000
LINEARdrive 1000, 1800, 7200

100-277VAC LED drivers
POWERdrive 106
LINEARdrive 106

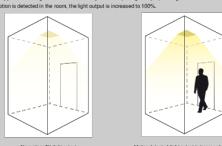
eldoLED 10-40VDC and 100-277VAC LED drivers featuring Ext (internal input) connectors allow the connection of a motion sensor. With a motion sensor you can create automated, local light response triggered by motion.

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- how to configure the driver for use with a motion sensor
- wiring diagram and schematic detailing the connection of a PIR (Panasonic Infrared motion sensor to your eldoLED driver)
- how to use the TOOLbox and TOOLbox PC software to design the action triggered by detected motion

Application

In this sample application the light in a room is at a very low level (5% light output) as long as no motion is detected. As soon as motion is detected in the room, the light output is increased to 100%.



No motion, 5% light output
Motion-detected light output is increased to 100%

Driver configuration

Via the driver's user interface, prepare the driver for use with the motion sensor and set the driver's mode of operation to Show:

1. Select the menu item M and . This will activate the setup menu.
2. Press M a number of times to go through the various setup items until you reach 'EXT INP' (external input). On the next page, some sample setup menus are depicted. For the LINEARdrive 1800, pressing M once will get you to the EXT INP menu item, for the POWERdrive 1800 you need to press M six times. Refer to the Menu Structure quick start guide for your driver for more information (www.eldoled.com/quickstartguide).

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[pdf] Diagram

Application note Panasonic motion sensor V1 fm fabienne Note Motion Sensor LINEARdrive 100 S

EldoLED Soliled 1 soliled 2020 04 |||

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXT INP menu item, for the POWERdrive 180D you...

lang:en score:31 filesize: 193.91 K page_count: 4 document date: 2020-07-01

eldoLED
your product | our drive

Application note Motion sensor

eldoLED drivers to which this application note applies include:

124-000/100 LED drivers
ECODrive DC 100, 300, 400
POWERdrive DC 400, 800, 1000
LINEARdrive 1000, 1800, 7200

100-277VAC LED drivers
POWERdrive 106
LINEARdrive 106

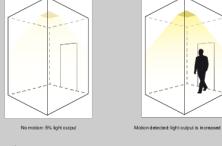
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This document describes a sample LED lighting application which a motion sensor triggers a certain behavior. It lists information on:

- how to configure the driver for use with a motion sensor
- wiring diagram and schematic detailing the connection of a PIR (Panasonic Infrared motion sensor to your eldoLED driver)
- how to use the TOOLbox and TOOLbox PC software to design the action triggered by detected motion

Application

In this sample application the light in a room is at a very low level (5% light output) as long as no motion is detected. As soon as motion is detected in the room, the light output is increased to 100%.



No motion, 5% light output
Motion-detected light output is increased to 100%

Driver configuration

Via the driver's user interface, prepare the driver for use with the motion sensor and set the driver's mode of operation to Show:

1. Select the menu item M and . This will activate the setup menu.
2. Press M a number of times to go through the various setup items until you reach 'EXT INP' (external input). On the next page, some sample setup menus are depicted. For the LINEARdrive 1800, pressing M once will get you to the EXT INP menu item, for the POWERdrive 1800 you need to press M six times. Refer to the Menu Structure quick start guide for your driver for more information (www.eldoled.com/quickstartguide).

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[pdf] Diagram

Application note Panasonic motion sensor V1 fm fabienne AN Motion Sensor LIN720D LINEARdrive

720D Tension Constante EldoLED Soliled 7 soliled 2020 06 |||

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXT INP menu item, for the POWERdrive 180D you...

lang:en score:31 filesize: 193.91 K page_count: 4 document date: 2020-07-01

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Application note Motion sensor

eldoLED drivers to which this application note applies include:
 12-60VDC LED drivers 100-277VAC LED drivers
 ECOdrive DC 120, 300, 600 POWERdrive 100
 POWERdrive DC 400, 600, 1000 LINEARdrive 1000, 1800, 7200

eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . With a motion sensor triggers a certain behavior. It has information on:
 • how to configure the driver for use with a motion sensor
 • wiring diagram and schematic detailing the connection of a PIR (Passive Infra Red) motion sensor to your eldoLED driver
 • how to use the TOOLbox and TOOLbox PC software to design the action triggered by detected motion

Application
 In this sample application the light in a room is at a very low level (5% light output) as long as no motion is detected. As soon as motion is detected in the room, the light output is increased to 100%.

Driver configuration
 Via the driver's user interface, prepare the driver for use with the motion sensor and set the driver's mode of operation to Show:
 1. Press driver's user interface. This will activate the setup menu.
 2. Press M a number of times to go through the various setup items until you reach 'EXP INP' (external input). On the next page, some sample setup menus are depicted. For the LINEARdrive 1800, pressing M once will get you to the EXP INP menu item, for the POWERdrive 1800 you need to press M six times. Refer to the Movie Structure quick start guide for your driver for more information (www.eldoled.com/guides/start).

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Application note Motion sensor

eldoLED drivers to which this application note applies include:
 12-60VDC LED drivers 100-277VAC LED drivers
 ECOdrive DC 120, 300, 600 POWERdrive 100
 POWERdrive DC 400, 600, 1000 LINEARdrive 1000, 1800, 7200

eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . With a motion sensor you can create automated, local light response triggered by motion.

This document describes a sample LED lighting application which a motion sensor triggers a certain behavior. It has information on:
 • how to configure the driver for use with a motion sensor
 • wiring diagram and schematic detailing the connection of a PIR (Passive Infra Red) motion sensor to your eldoLED driver
 • how to use the TOOLbox and TOOLbox PC software to design the action triggered by detected motion

Application
 In this sample application the light in a room is at a very low level (5% light output) as long as no motion is detected. As soon as motion is detected in the room, the light output is increased to 100%.

Driver configuration
 Via the driver's user interface, prepare the driver for use with the motion sensor and set the driver's mode of operation to Show:
 1. Press driver's user interface. This will activate the setup menu.
 2. Press M a number of times to go through the various setup items until you reach 'EXP INP' (external input). On the next page, some sample setup menus are depicted. For the LINEARdrive 1800, pressing M once will get you to the EXP INP menu item, for the POWERdrive 1800 you need to press M six times. Refer to the Movie Structure quick start guide for your driver for more information (www.eldoled.com/guides/start).

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Datasheet LINEARdrive 1000, 1800, 7200 DC Series

Colour is our nature

4/6/24A Full-Colour Dimmable LED Driver

Lineardrives are a convenient single LED driver which are controlled over four channels. It's targeted at large recessed and surface installations that require dimmable, low power full colour static or dynamic LED lighting. LINEARdrive DC is DALI, DMX512, LEDmatrix and D-4V compatible.

Applications

- Entertainment lighting
- Signage / advertising lighting
- Full-color architectural lighting
- Full-color architectural lighting
- Decorative lighting
- Dynamic color palette lighting

Features & benefits

- Voltage: 12 - 24 VDC for LINEARdrive 1000, 1800 and 7200
- Current: 12 - 24 A for LINEARdrive 1000, 1800 and 7200
- Lineardrives 1000: 4A at 24V, 6A at 12V
- Lineardrives 1800: 6A at 24V, 10A at 12V
- Lineardrives 7200: 24A at 24V, irrespective of PSU voltage

Output

Voltage: 12V, 24V, 24V-48V, 12V, 24V-48V, 12V-24V, 24V-48V, 12V-24V, 24V-48V

Lineardrives 1000: 1.5A, 2A, 1A, 1.5A, 0.4A, n/a

Lineardrives 1800: 2A, 3A, 2A, 3A, 0.4A, n/a

Lineardrives 7200: 6A, 6A, 6A, 6A, 0.4A, 0.4A

General

- DALI (LINEARdrive 1000 only), USTT (M12x0.51 / RDM (ANSI E1.20), LEDmatrix and D-4V compatible
- DALI and USTT are standard for LINEARdrive 1000
- Dimming control smooth dimming from 100% to 0% D-4V, gamma-corrected curve
- Input & output are isolated for each channel
- Input & output are isolated for each channel
- PSU protection: short circuit protection, 100V or short switch
- Shutdown: 0 default times, up to 20 user-defined times, uploadable via TOOLbox and PC software

Product offering

Description	Product	Order no.
LINEARdrive DC: 12W, 24W, 48W, 96W, 4 control channels, constant voltage, 4x LED output	LINEARdrive DC	LN1000/1000
LINEARdrive DC: 12W, 24W, 48W, 96W, 4 control channels, constant voltage, 4x LED output	LINEARdrive DC	LN1800/1800
LINEARdrive DC: 12W, 24W, 48W, 96W, 4 control channels, constant voltage, 4x LED output	LINEARdrive DC	LN7200/7200

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[pdf] Diagram

Application note Panasonic motion sensor V1 fm fabienne © 2012 eldoLED All rights reserved 0 1 4

Motion AN 5 soliled 2020 06 |||

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXT INP menu item, for the POWERdrive 180D you...

lang:en score:30 filesize: 193.91 K page_count: 4 document date: 2020-07-01

[pdf] Datasheet Diagram

Application note Panasonic motion sensor V1 fm fabienne © 2012 eldoLED All rights reserved 0 1 4

Motion LINEARdrive 720D AN ledclusive de led driver datasheets |||

Application note Motion sensor eldoLED drivers to which this application note applies include: 12 ... u reach EXP INP external input . On the next page, some sample setup menus are depicted. For the LINEARdrive 180D, pressing M once will get you to the EXT INP menu item, for the POWERdrive 180D you...

lang:en score:30 filesize: 428.79 K page_count: 4 document date: 2012-01-30

[pdf] Datasheet Documentation

Datasheet LINEARdrive 100D 180D 720D V4 3 fm fabienne DC Series 4 6 24A © 2011 eldoLED All rights reserved More product documentation and terms and conditions are available at eldoled Datasheet14 voltus de out pictures media |||

Datasheet LINEARdrive 100D, 180D, 720D DC Series 4/6/24A Full-Colour Dimmable LED Driver LINEARdri ... D and 720D1 12 - 48 VDC for LINEARdrive 720D2 Current, max: LINEARdrive 100D: 4A at 24V, 6A at 12V LINEARdrive 180D: 6A, irrespective of PSU voltage LINEARdrive 720D: 24A, irrespective of PSU voltage...

lang:en score:30 filesize: 342.16 K page_count: 2 document date: 2011-10-04

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Application note **Astronomical clock**

eldoLED drivers to which this application note applies include:

124-48VDC LED drivers 100-277VAC LED drivers
ECONdrive 120, 180, 360, 480 POWERdrive 100
POWERdrive 180, 360, 720 LINEARdrive 180
LINEARdrive 1000, 1800, 3600, 7200

An application note for the LINEARdrive 180D is also available on our website. Please refer to your application to create automated light response triggered by precise times or calendar for maximum energy and operational efficiency.

This application note lists information on:

- how to configure the driver for use with an astronomical clock
- wiring diagram showing the connection to an astronomical clock to your eldoLED driver
- how to use the TOOLbox and TOOLbox PC software to design a light output profile

Application: astronomical clock functioning as switch input
Outdoor signage displays illuminated by LEDs can be controlled as an astronomical clock that triggers the change in light output levels. For instance, you may want a signage display to have a very low level light output (5%) during daytime, and be at full output nighttime. The trigger for the LED driver to change between low and high level light output is given by the astronomical clock.



Driver configuration
Via the driver's 3 button user interface, prepare the driver for the connection with the astronomical clock as switch input, and set the driver's operation mode to "Show".

1. Simultaneously press M and ~. This will activate the setup menu.
2. Press M a number of times to go through the various setup items until you reach "EXT INP" (external input).

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[pdf] Diagram

Application note Astronomical clock for automated light output control V1 fm fabienne AN Astro Clock

POWERdrive 45D EldoLED Soliled soliled 2020 06 |||

Application note Astronomical clock eldoLED drivers to which this application note applies include ... 0 1/4 Application note Astronomical clock Below, some sample setup menus are depicted. For the LINEARdrive 180D, for example, pressing the M button once will get you to the EXT INP menu item, for...

lang:en **score:30** filesize: 219.38 K page_count: 4 document date: 2020-07-01

eldoLED
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Application note **Astronomical clock**

eldoLED drivers to which this application note applies include:

124-48VDC LED drivers 100-277VAC LED drivers
ECONdrive 120, 180, 360, 480 POWERdrive 100
POWERdrive 180, 360, 720 LINEARdrive 180
LINEARdrive 1000, 1800, 3600, 7200

An application note for the LINEARdrive 180D is also available on our website. Please refer to your application to create automated light response triggered by precise times or calendar for maximum energy and operational efficiency.

This application note lists information on:

- how to configure the driver for use with an astronomical clock
- wiring diagram showing the connection to an astronomical clock to your eldoLED driver
- how to use the TOOLbox and TOOLbox PC software to design a light output profile

Application: astronomical clock functioning as switch input
Outdoor signage displays illuminated by LEDs can be controlled as an astronomical clock that triggers the change in light output levels. For instance, you may want a signage display to have a very low level light output (5%) during daytime, and be at full output nighttime. The trigger for the LED driver to change between low and high level light output is given by the astronomical clock.



Driver configuration
Via the driver's 3 button user interface, prepare the driver for the connection with the astronomical clock as switch input, and set the driver's operation mode to "Show".

1. Simultaneously press M and ~. This will activate the setup menu.

2. Press M a number of times to go through the various setup items until you reach "EXT INP" (external input).

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[pdf] Diagram

Application note Astronomical clock for automated light output control V1 fm fabienne AN Astro Clock

POWERdrive 90D EldoLED Soliled 2 soliled 2020 06 |||

Application note Astronomical clock eldoLED drivers to which this application note applies include ... 0 1/4 Application note Astronomical clock Below, some sample setup menus are depicted. For the LINEARdrive 180D, for example, pressing the M button once will get you to the EXT INP menu item, for...

lang:en **score:30** filesize: 219.38 K page_count: 4 document date: 2020-07-01