

### DMX 5 CHANNEL DECODER

Control low-voltage LED lighting with flicker-free performance and compatible with 4-6 wire light engines; it can be used as a standalone/master controller or companion decoder. The 5-channel decoder featuring a digital display for fast and easy connections, has drive capacity up to 96W/192W per receiver at 12V/24V respectively.

Date \_\_\_\_\_

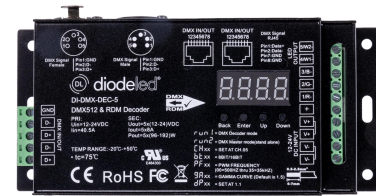
Project Notes \_\_\_\_\_



12/24  
VDC

#### FEATURES

- 5 Channel x 8A
- PWM frequency range 500-30,000 Hz
- Standalone feature
- Simple DMX address adjustments
- Compatible with 12 to 24 VDC LED lighting



#### ORDERING CODES

Order spools, and components for field assembly

	Control Type	Model	DMX Channels
DI			
	DMX	DEC	5

#### DMX 5 CHANNEL DECODER - SPECIFICATION TABLE

Models	DMX-DEC-5
Input Voltage / Frequency	12-24VDC
Output Voltage	12-24VDC
Input Signal	DMX512
Output Signal and Frequency	PWM, 200-1,500Hz; 0.8 milliseconds
Maximum Load	5 CH x 96W/192W
Input Connection Type	RJ45/5-Pin XLR
Output Connection Type	RJ45/5-Pin XLR
Max Run	10 Interconnected Units
Dimensions	6.45 × 2.87 × 1.5 in. (L x W x H)
Environment	Indoor/Damp Location (IP20)
Certification	UL Recognized E484300
Warranty	5 Year

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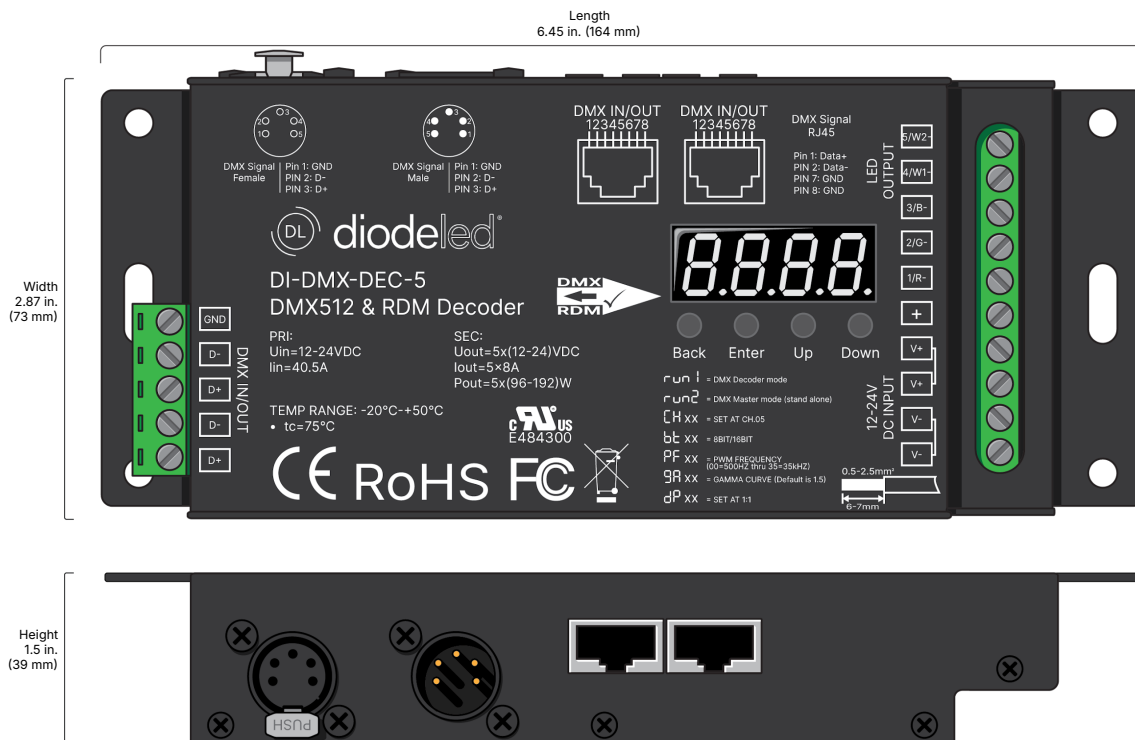
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### MECHANICAL DIAGRAMS

DMX-DEC-5



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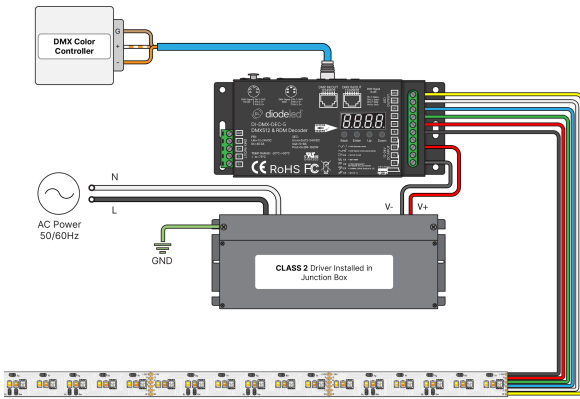
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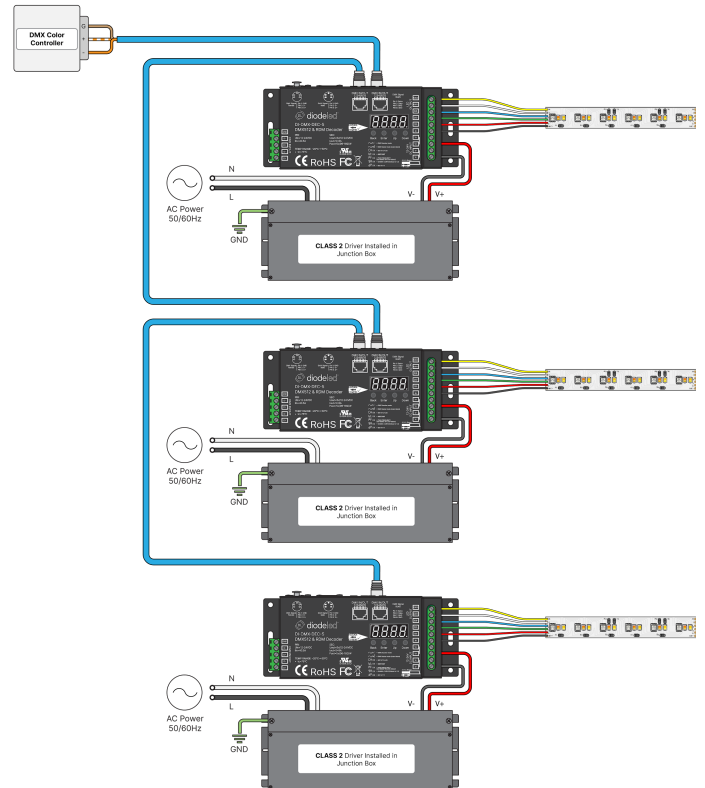


### SYSTEM DIAGRAMS

#### DMX



#### DMX - Multi-Decoder



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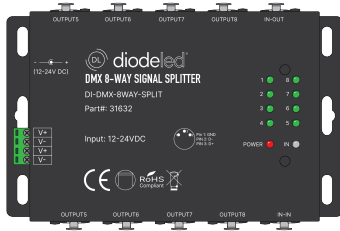
Project Notes \_\_\_\_\_



### ACCESSORIES

#### DI-DMX-8WAY-SPLIT

DMX XLR-3 8-Way Splitter



- Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run.
- Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
- Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment.

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CERTIFICATIONS

Safety

- UL Recognized E484300, LED Controller Component for use in the US and Canada.
- CE Compliant

Environment

- RoHS Compliant

Safety / Warnings / Disclosures

- Install in accordance with national and local electrical code regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
- Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
- Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
- Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
- Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
- Do not modify product beyond instructions or warranty will be void.
- Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY

Limited Warranty

- 5 Year limited warranty

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at [www.diodeled.com/limited-warranty/](http://www.diodeled.com/limited-warranty/) within the Policies section. For warranty related questions please contact product support.

Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.