# eldoLED

# Wiring Diagram LINEARdrive 720D

#### Line PSU Neutral LINEARdrive 720D RGBW LED Strip 12-48 VDC Supply Voltage for Driver (can be connected to PSU) VDC IN LED Group Group 1 GND R G B External control device LED Group 2 Group 2 GNE DALI network LED Group Group 3 GND DMX in -DMX OMX in -OMX in shield LED Group 4 Group 4 GND VDC and LED connectors: Other connectors: Terminal Block AWG 24-16 0.2-1.5 mm<sup>2</sup> AWG 20-16 0.5-1.5 mm<sup>2</sup> □ 9 mm 9 mm 0.35 inch 0.35 inch

CAUTION: The device may only be connected and installed by a qualified electrician. All applicable regulations, legislation and build-ing codes must be observed. Incorrect installation of the device can cause irreparable damage to the device and the connected LEDs.

#### 12V - 48V DC In

These connectors supply power to the LINEARdrive control and processing circuitry and *must be connected*. To connect to a 12-48V DC power supply unit (PSU), connect the PSU's positive voltage supply wire to the VDC+ connector and the PSU's negative voltage supply wire to the VDC-connector. The driver and LEDs can use the same PSU.

#### Ext In

You have the possibility to connect an external control device  $(10k\Omega \text{ potentiometer or show selection switch})$  to the driver's Ext in+ and Ext in- connector. Configure the driver for use with an external control device over the 3-button user interface.

#### DA+ / DA-

Use these connectors to connect the driver to a DALI network. Always combine a DA+ and a DA- connector for either data in-put or data output.

#### DMX In / Out

Use these connectors when the driver is used in a DMX network. For DMX in/out, connect the network cable's DMX+, DMX- and DMX shielding wire (the orange/white, orange and brown wire in a CAT5 cable) to the DMX in+, DMX in- and DMX in shield connector respectively.

#### **LED Groups**

Indicates the location of the connectors for your LED groups. R(ed) represents channel 1, G(reen) represents channel 2, B(lue) represents channel 3 and W(hite) represents channel 4. The default group color allocation can be changed over the 3-button user interface.

### (LIN720D3)

#### Rev 4-7-2022

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### Connecting an RGBW LED Strip

Maximum current per output: 6 Amps

Use a star connection for the ground wires and keep the length of the wires that deal with high amperages under 10 - 15cm / 3.9 - 5.9 inches.

Configuration of the LED groups: Press M and + sumultaneously. In the LED menu choose **RGBW** and save this setting by pressing M.



Neg (-)

18A 🕂

#### **Connecting an RGB Strip**

Maximum current per output: 6 Amps

Use a star connection for the ground wires and keep the length of the wires that deal with high amperages under 10 - 15cm / 3.9 - 5.9 inches.

Configuration of the LED groups: Press M and + sumultaneously. In the LED menu choose **RGB** and save this setting by pressing M.

### Connecting a Tunable White LED Strip

Maximum current per output: 6 Amps

Use a star connection for the ground wires and keep the length of the wires that deal with high amperages under 10 - 15cm / 3.9 - 5.9 inches.

Configuration of the LED groups:

Press M and + sumultaneously. In the LED menu choose **CCWW** and save this setting by pressing M.

### Connecting Four White or Self-Colored LED Strips

Maximum current per output: 6 Amps

Use a star connection for the ground wires and keep the length of the wires that deal with high amperages under 10 - 15cm / 3.9 - 5.9 inches.

Configuration of the LED groups: Press M and + sumultaneously. In the LED menu choose **1-4L** and save this setting by pressing M.





# (LIN720D3)

PSU output current must be a mini

RGB LED Strip

of 18 Amps (3 outputs at 6 Amps max

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Terminal Block

Line

LINEARdrive 720D

Neutral

LED Group 1 Group 1 GND

LED Group 2 Group 2 GND LED Group 3 Group 3 GND

LED Group 4

Group 4 GND

PSU

# Wiring Diagram LINEARdrive 720D

# (LIN720D3)

#### Connecting Tunable White LED Strips Using Two PSUs

Maximum current per output: 6 Amps

Use a star connection for the ground wires for each PSU and keep the length of the wires that deal with high amperages under 10 - 15cm / 3.9 - 5.9 inches. You can use one PSU for multiple LED strips and combine the grounds, but do not combine the grounds for multiple PSUs.

Configuration of the LED groups:

Press M and + sumultaneously. In the LED menu choose **CCWW** and save this setting by pressing M.

### Connecting Four White or Self-Colored LED Strips Using Two PSUs

Maximum current per output: 6 Amps

Use a star connection for the ground wires for each PSU and keep the length of the wires that deal with high amperages under 10 - 15cm / 3.9 - 5.9 inches. You can use one PSU for multiple LED strips and combine the grounds, but do not combine the grounds for multiple PSUs.

Configuration of the LED groups:

Press M and + sumultaneously. In the LED menu choose **1-4L** and save this setting by pressing M.

### Connecting Four White or Self-Colored LED Strips <u>Using Four PSUs</u>

Maximum current per output: 6 Amps

Use a star connection for the ground wires for each PSU and keep the length of the wires that deal with high amperages under 10 - 15cm / 3.9 - 5.9 inches. You can use one PSU for multiple LED strips and combine the grounds, but do not combine the grounds for multiple PSUs.

Configuration of the LED groups:

Press M and + sumultaneously. In the LED menu choose **1-4L** and save this setting by pressing M.

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