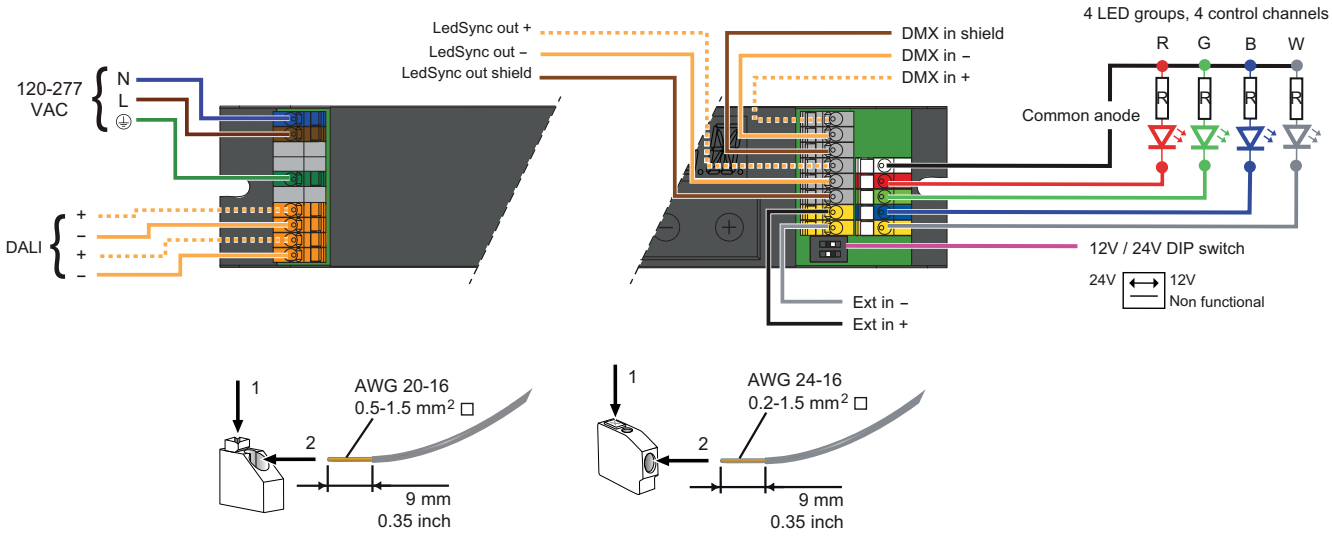
eldoLED

your product | *our drive*

Wiring diagram LINEARdrive 100/M (LIN100M1)

⚠ Pay attention when connecting the LED groups: polarity reversal results in no light output and often damages the LEDs



⚠ WARNING: Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.

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

120-277VAC

The driver accepts a universal mains voltage input of 120-277VAC, 50/60Hz.

DALI

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

DMX in/LedSync out

Use these connectors when the driver is used in a DMX network. For DMX in, 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. For LedSync out, connect the network cable's DMX+, DMX- and DMX shielding wire to the LedSync out+, LedSync out- and LedSync out 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. One common anode provides the positive supply voltage for all four LED groups. The default group color allocation can be changed over the 3-button user interface.

LED wire length

Maximum wire length from LED driver to LED engine at full load:

AWG value	20	19	18	17	16
Distance (m)	14	18	22	28	36
Distance (ft)	45.9	59	72.2	91.9	118.1

⚠ Please observe voltage drop over long wire lengths.

⚠ Longer wire lengths increase EMI susceptibility.

Ext in

You have the possibility to connect an external control device (0-10V control device, 10kΩ potentiometer or show selection switch) to the driver's Ext in+ and Ext in- connectors. Configure the driver for use with an external control device over the 3-button user interface.

12-24V DIP switch

Set DIP switch 1 to ON when you're connecting a 24V LED strip; set DIP switch 1 to OFF when you're connecting a 12V LED strip. (DIP switch 2 is not used.)

Warning: setting DIP switch 1 to ON for use with 24V LEDs and subsequently connecting 12V LEDs can damage the LEDs!

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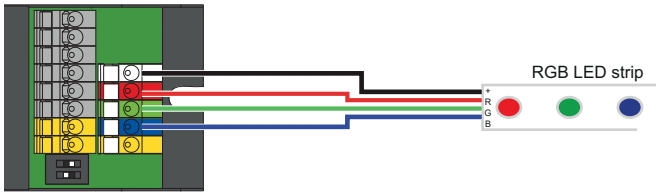
Connecting an RGB LED strip

Maximum current per output at 12V: 2.77A
Maximum current per output at 24V: 1.33A

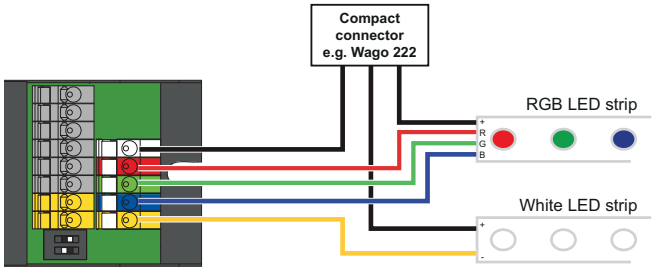
Configuration of the LED groups:
Press M and + simultaneously, in the LED menu choose RGB and save by pressing M.



Connecting an RGB strip and a white LED strip

Maximum current per output at 12V: 2A
Maximum current per output at 24V: 1A

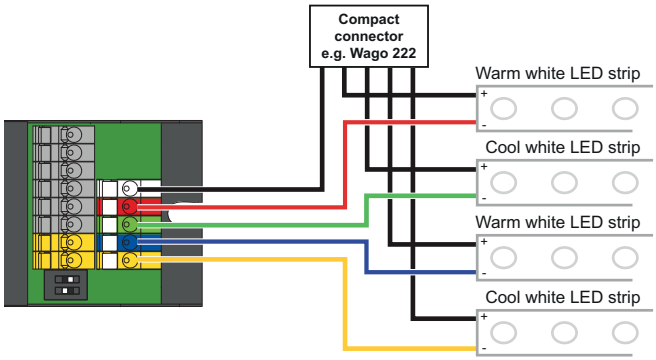
Configuration of the LED groups:
Press M and + simultaneously, in the LED menu choose RGBW and save by pressing M.



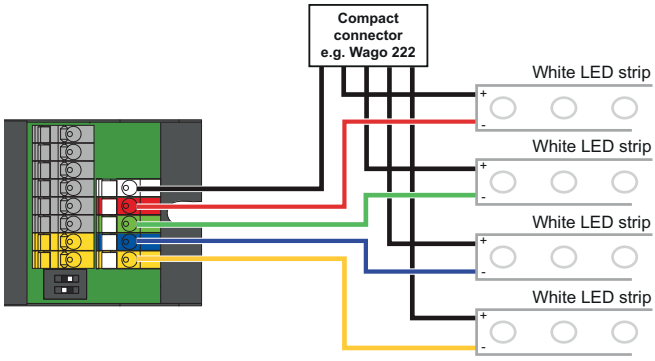
Connecting warm white and cool white LED strips

Maximum current per output at 12V: 2A
Maximum current per output at 24V: 1A

Configuration of the LED groups:
Press M and + simultaneously, in the LED menu choose 4-4L and save by pressing M.



Connecting four white or self-colored LED strips

Maximum current per output at 12V: 2A
Maximum current per output at 24V: 1A

Configuration of the LED groups:
Press M and + simultaneously, in the LED menu choose 1-4L and save by pressing M.