LEDVD5CH20A-V2
Color controller

Voltage driver whereby the brightness, color or color temperature of the LED strips are set by the user (without user interface circuit board)

DATA SHEET

- Custom embedded Software possible
- Adequate EMC design that enables correct and interference-free operation
- CE mark is attached to the PCB
- RoHS directive 2002/95/EC
- EMC Directive 2014/30/EC

The power supply

The total requested flow from the diet can be with all five channels at full load up to 100 Amps. If the power wires between power supply and voltage driver no more than 1 to 1.5 meters, it is sufficient 2x 10mm2, 16mm2 is recommended for longer lengths.

Colors and effects

With the DMX512 signal connected to the voltage driver, it is possible to adjust the brightness at each of the five channels in 256 steps. By connecting RGB LED strips and color temperature LED strips, it is possible to finetune every tint.
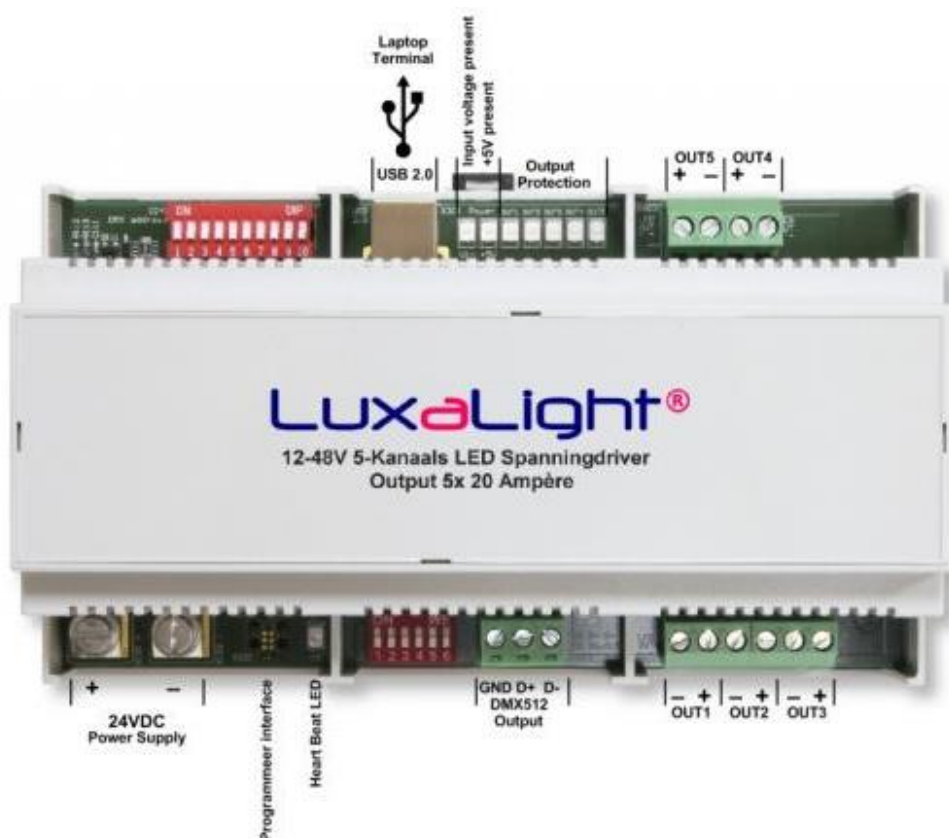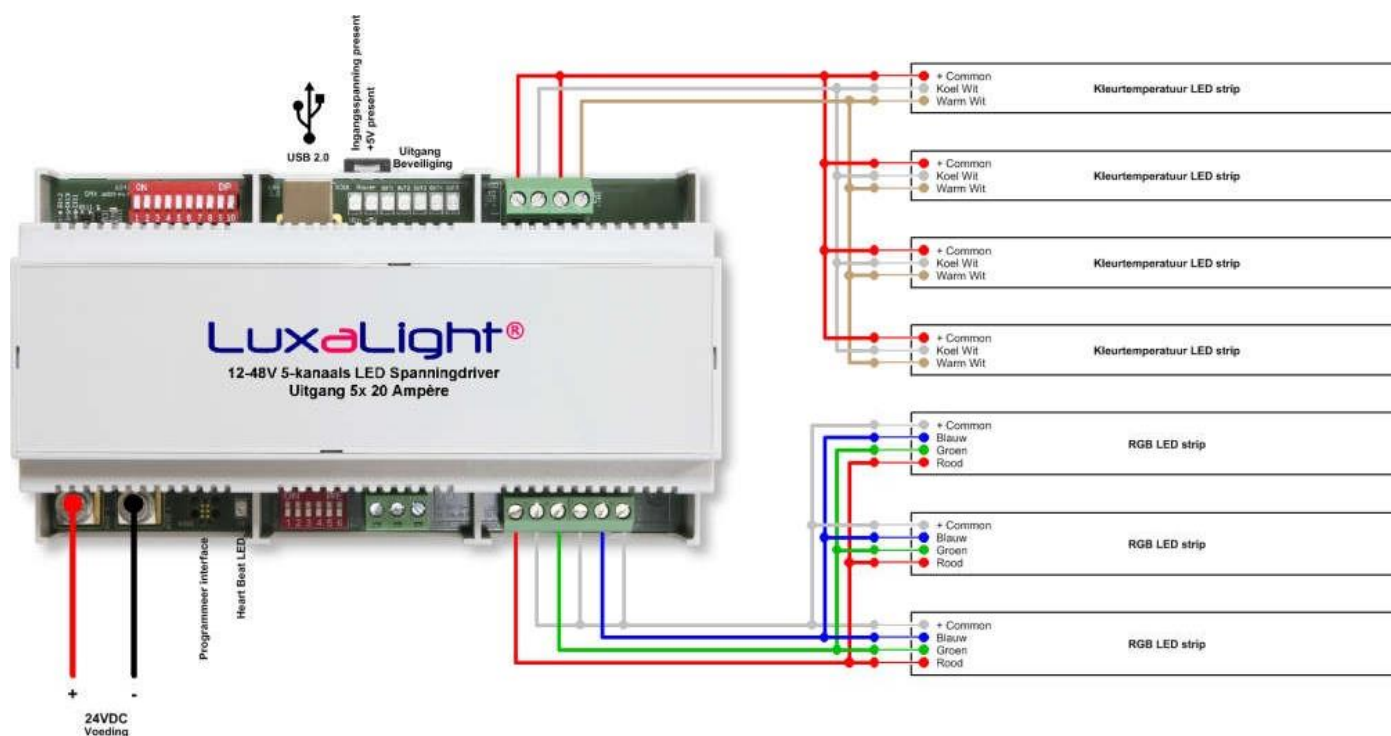
Terminator

To the left side of the three-pole DMX terminal block there is a 6-way DIP switch S231 located where the 6th position is the 120 Ohm terminator. The terminator will is activated by setting the 6th DIP switch up to ON position, only when the voltage driver is connected to the end of a long DMX512

LED indicators

The green LED's at the top indicate that the supply voltage on the print is present. The green flashing LED at the bottom indicates the "heart beat" of the controller as a sign that it is working properly. There are also some red LEDs OUT 1 t / m OUT5, which light up as soon as a voltage output is overloaded. Above a certain value is, moreover, the overloaded channel turned off by software.

Custom made options

The LuxaLight voltage driver provides the proprietary software options for customer-specific applications, such as connecting a light sensor. The hardware of the voltage driver offers this possibility, but an additional light sensor has to be made and should also be made an extentions in the software here. Customization options will be included in the offer.

LuxaLight®

Specifications

Input voltage	12 - 48V
Maximal input current	100A (sum of the output currents)
Standby current	18mA (outputs fully dimmed)
Own power consumption	5W at 2400W load
Efficiency	Approx. 99.8%
Output current per channel	20 Ampère up to 24 Volt
Output power	12V – 5x 240 Watt = 1200 Watt (20A/channel)
	24V – 5x 480 Watt = 2400 Watt (20A/channel)
	36V – 5x 540 Watt = 2700 Watt (15A/channel)
	48V – 5x 576 Watt = 2880 Watt (12A/channel)
Overvoltage protection	Yes, up to 60 Volts
Short circuit protection	Yes
DMX512	DMX512 input/output
On-board DMX512 terminator	Yes, switchable
PWM frequency	250 Hz
No. of brightness steps per channel	256 (8-bit)
Color resolution	8-bit (16.7 million colors, true-color)
Outputs are EMC filtered	Yes
Temperature range	-20°C … +40°C
Housing, b x h x d	DIN rail housing, 159mm x 90mm x 58mm
IP- class	IP20
Cooling	On circuit board, with coolfan on fan controller

Compliant

Meets standards:

- *CE mark is attached to the PCB*
- *RoHS Directive 2002/95/EC*
- *EMC Directive 2014/30/EC*