PowerController V2

☀ **LUMITRONIX®**
High-Performance LED-Technologies & Solutions

ATTENTION

- Turn off input voltage before carrying out any installation, maintenance or modification works and and secure the system against being inadvertently switched on again.
- Ensure that the wires are assembled professionally and properly and comply with the standard specifications of your country.
- The PowerController V2 shall be used only in professional lighting solutions.
- According to the standard EN61347-1 and EN61347-2-13, the used power supplies must comply to the norm conformity.
- This device is only made for the usage in a dry location.
- The output voltage given on the type label must not be exceeded.

Please find the complete datasheet and more information about the PowerController V2 on our website:
www.lumitronix.com/en_gb/32118

STANDARD CONFIGURATION 1

Input: 4 x switch
Output: 4 x LED module single-colour

Flashing
Before putting the device into service, take off the case and plug on the programming adapter (article number 32480 on www.lumitronix.com/en_gb/)
Connect the PowerController V2 with your computer via USB-C cable (article number 32035).
The flasher-LED aligns as soon as the PowerControllerV2 is connected with the computer. The target LED aligns when the PowerControllerV2 is sucessfully connected with the power supply (VCC/GND).
Open file „Standard configuration 1" and pay attention to the appearing dialogue.

Put the case back on before going on with the connection.

Connection
All 4 inputs (A – D) are connected with the switch's positive lead.
The switches's negeative leads are merged on the GND input using the terminal (article number 33736 on www.lumitronix.com/en_gb/).
The outputs (CH1 – CH4) are each connected with the negative leads of the single-coloured LED modules.
Using the terminal, the positive leads of the LED module are merged on „OUT".
The operating voltage is fed in via „GND" and „VCC".
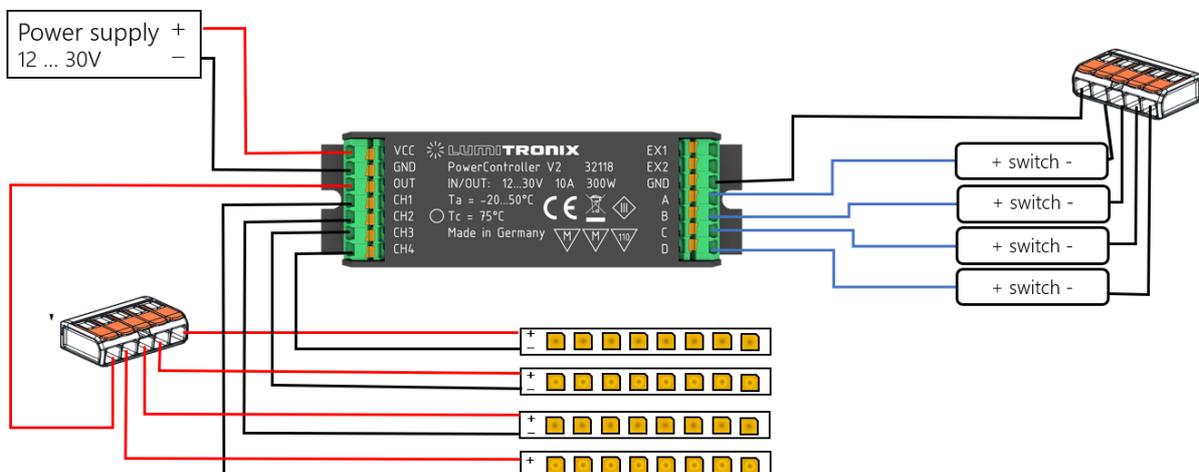
Functionality
The LED modules can be turned on and off using the switches on input A – D. When held down for a longer time, the light will be dimmed.

STANDARD CONFIGURATION 2

Input: 4 x potentiometer
Outputt: 4 x LED module single-colour

Flashing
Before putting the device into service, take off the case and plug on the programming adapter (article number 32480 on www.lumitronix.com/en_gb/).
Connect the PowerController V2 with your computer via USB-C cable (article number 32035).
The flasher-LED aligns as soon as the PowerControllerV2 is connected with the computer. The target LED aligns when the PowerControllerV2 is sucsessfully connected with the power supply (VCC/GND).
Open file „Standard configuration 2" and pay attention to the appearing dialogue.

Put the case back on before going on with the connection.

Connection
All 4 inputs (A - D) are connected with the potentiometer's positive lead.
The negative leads of the potentiometers are are merged on the GND input using the terminal (article number 33736 on www.leds.com).
The outputs (CH1 – CH4) are each connected with the negative leads of the single-coloured LED modules.
Using the terminal, the positive leads of the LED module are merged on „OUT".
The operating voltage is fed in via „GND" and „VCC".
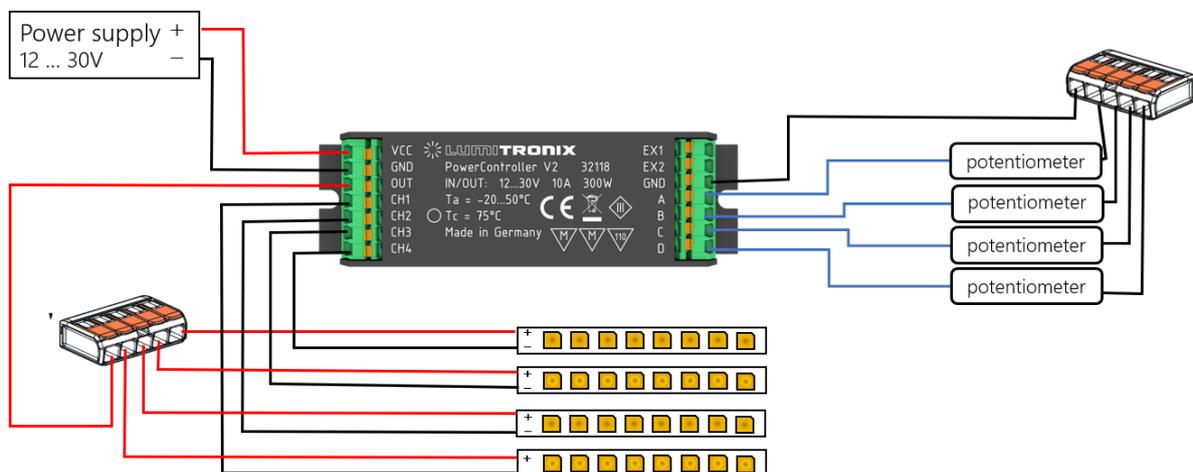
Functionality
The brightness of the LED modules can be adjusted from 0 – 100% using the assigned potentiometer.

STANDARD CONFIGURATION 3 (-PREINSTALLED-)

Input: 4 x switch
Output: 2 x LED module tunable white

This configuration is already preinstalled.

Flashing
Before putting the device into service, take off the case and plug on the programming adapter (article number 32480 on www.lumitronix.com/en_gb/).
Connect the PowerController V2 with your computer via USB-C cable (article number 32035).
The flasher-LED aligns as soon as the PowerControllerV2 is connected with the computer. The target LED aligns when the PowerControllerV2 is sucsessfully connected with the power supply (VCC/GND).
Open file „Standard configuration 3" and pay attention to the appearing dialogue.

Put the case back on before going on with the connection.

Connection
All 4 inputs (A - D) are connected with the switch's positive lead.
The switches's negeative leads are merged on the GND input using the terminal (article number 33736 on www.leds.com).
The outputs CH1 and CH3 are each conntected with the warmwhite lead oft he tunable white LED module.
The coldwhite leads are connected with the outputs CH2 and CH4.
Using the terminal, the positive leads of the LED modules are merged on „OUT".
The operating voltage is fed in via „GND" and „VCC".
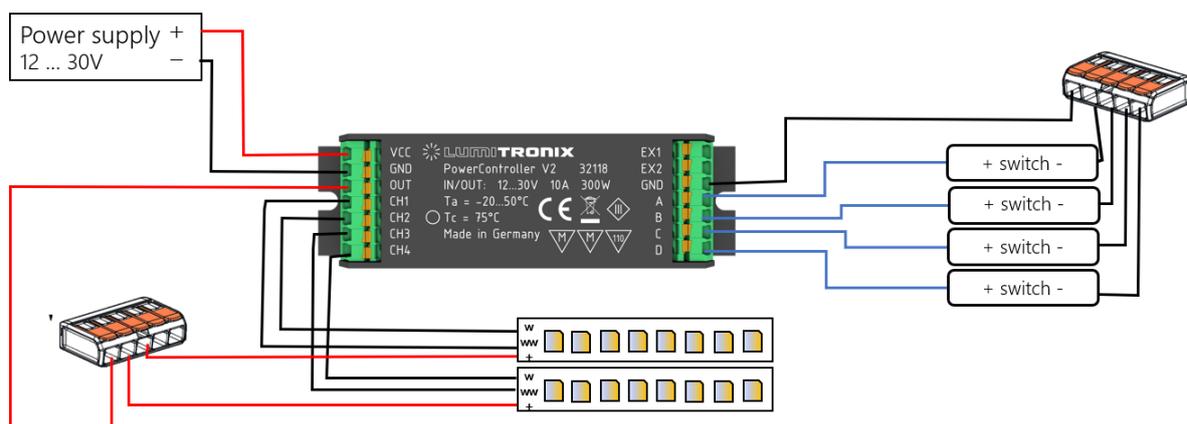
Functionality
The LED modules can be turned on and off by briefly pressing the switches on input A or B. When held down for a longer time, the tunable white LED modules will be dimmed.
Long pressure on the switches on input C or D allows to change the LED module's colour temperature from warm white to cold white or the other way round.

STANDARD CONFIGURATION 4

Input: 2 x potentiometer, 2 x switches
Output: 2 x LED module tunable white

Flashing
Before putting the device into service, take off the case and plug on the programming adapter (article number 32480 on www.lumitronix.com/en_gb/).
Connect the PowerController V2 with your computer via USB-C cable (article number 32035).
The flasher-LED aligns as soon as the PowerControllerV2 is connected with the computer. The target LED aligns when the PowerControllerV2 is sucsessfully connected with the power supply (VCC/GND).
Open file „Standard configuration 4" and pay attention to the appearing dialogue.

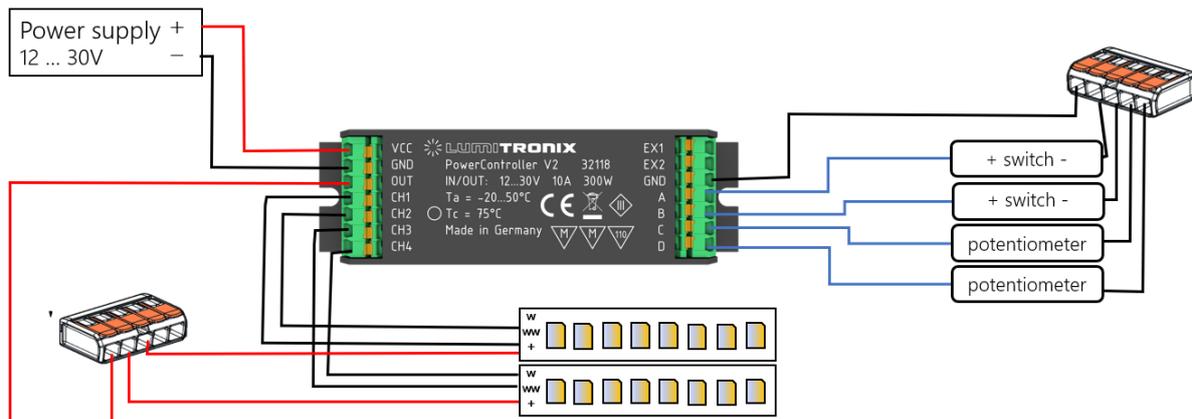Put the case back on before going on with the connection.

Connection
Inputs A and B are each connected with the switch's positive lead. Inputs C and D are connected with the positive lead of two potentiometers.
The negative leads of the switches and potentiometers are merged using the terminal (article number 33736 on www.lumitronix.com/en_gb/) on the GND-input.
Outputs CH1 and CH3 are each connected with the warm white lead of the tunable white LED modules. The cold white leads of the LED modules are connected with the outputs CH2 and CH4.
Using the terminal, the positive leads of the LED modules are merged on „OUT".
The operating voltage is fed in via „GND" and „VCC".

Functionality
The LED modules can be turned on and off by briefly pressing the switches on input A or B. When held down for a longer time, the tunable white LED modules will be dimmed. Using the potentiometers on C and D, the colour temperature of the LED modules can be changed from warm white to cold white or the other way round.

STANDARD CONFIGURATION 5

Input: 2 x potentiometer, 2 x switch
Output: 2 x LED module tunable white

Flashing
Before putting the device into service, take off the case and plug on the programming adapter (article number 32480 on www.lumitronix.com/en_gb/).
Connect the PowerController V2 with your computer via USB-C cable (article number 32035).
The flasher-LED aligns as soon as the PowerControllerV2 is connected with the computer. The target LED aligns when the PowerControllerV2 is sucessfully connected with the power supply (VCC/GND).
Open file „Standard configuration 5" and pay attention to the appearing dialogue.

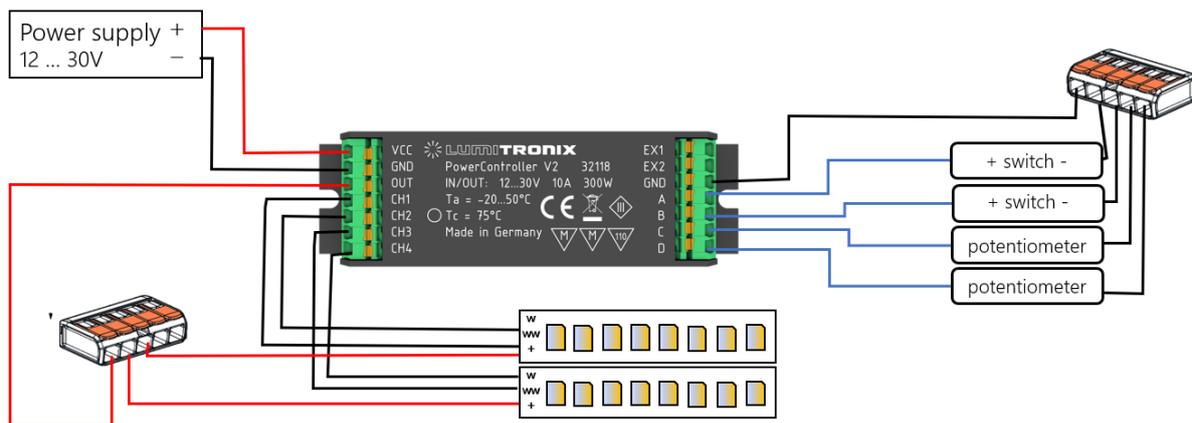Put the case back on before going on with the connection.

Connection
Inputs A and B are each connected with the switch's positive lead. Inputs C and D are connected with the positive lead of two potentiometers.
The negative leads of the switches and potentiometers are merged using the terminal (article number 33736 on www.lumitronix.com/en_gb/) on the GND-input.
Outputs CH1 and CH3 are each connected with the warm white lead of the tunable white LED modules. The cold white leads of the LED modules are connected with the outputs CH2 and CH4.
Using the terminal, the positive leads of the LED modules are merged on „OUT".
The operating voltage is fed in via „GND" and „VCC".

Functionality
The LED modules can be turned on and off by briefly pressing the switches on input A or B.
Using the potentiometers on C and D the tunable white LED modules can be dimmed from 0 – 100%, while the colour temperature changes on the basis of our dim2warm mode at the same time from warm white to cold white and the other way round.

STANDARD CONFIGURATION 6

Input: 2 x potentiometer, 2 x switch
Output: 1 x LED module RGBW

Flashing
Before putting the device into service, take off the case and plug on the programming adapter (article number 32480 on www.lumitronix.com/en_gb/).
Connect the PowerController V2 with your computer via USB-C cable (article number 32035).
The flasher-LED aligns as soon as the PowerControllerV2 is connected with the computer. The target LED aligns when the PowerControllerV2 is sucsessfully connected with the power supply (VCC/GND).
Open file „Standard configuration 6" and pay attention to the appearing dialogue.

Put the case back on before going on with the connection.

Connection
Inputs A and B are each connected with the switch's positive lead.
Inputs C and D are connected with the positive lead of two potentiometers.
The negative leads of the switches and potentiometers are merged using the terminal (article number 33736 on www.lumitronix.com/en_gb/) on the GND-input.
All inputs (CH1 – CH4) are each connected with the appropriate RGBW module's colour leads.
The white lead is connected with output CH1, the read lead with output CH2, as well as the green lead with output CH3 and the blue lead with CH4.
Using the terminal, the positive lead of the RGBW LED module is connected with „OUT".
The operating voltage is fed in via „GND" and „VCC".
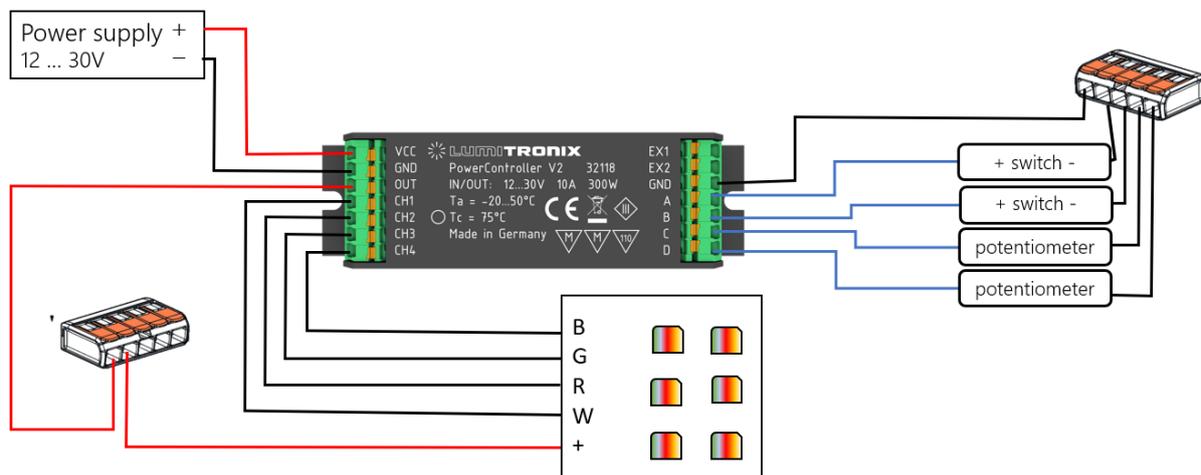
Functionality
The RGBW LED module can be turned on and off by briefly pressing the switch on input A. By pressing the switch on input B for a longer time, a colour change can be generated where the RGBW LED module cycles through all light colours as long as the switch is actuated.
Using the potentiometer on input D, the light colour can be changed between red, green, blue and white lighting. The potentiometer on input C enables to dim the light from 0 – 100 %.

SAFETY INSTRUCTIONS

The LED modules and all its components must not be mechanically stressed.
Avoid excessive stress e.g. by screws or strong bending.
When installing the module (including power supply) all relevant electrical and safety
standards must be considered.
Make sure to apply ESD precautions when handling the modules.
• The components on the modules must not be mechanical stressed.
• The circuit paths on the modules must not be damaged or disrupted at any time.

Our modules do not contain any protection against overload, over temperature or short circuits unless otherwise noted. For safe and reliable operation of the modules an electronical stabilized power supply with built in protection must be used. When using a power supply that's not sold by us make sure that the following precautions are ensured by the power supply:

MINIMUM REQUIREMENTS FOR POWER SUPPLIES

Short circuit protection • overload protection • over temperature protection

• The installation of LED modules (including power supply) has to be done by a certified electrician following all electrical and safety standards.

IF YOU HAVE ANY QUESTIONS WE WOULD BE PLEASED TO HELP

LUMITRONIX® is your partner in light emitting diodes, LED products and light measurement.

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