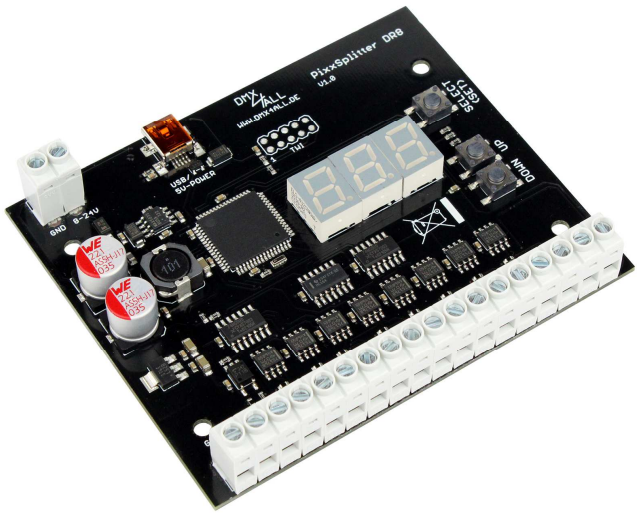
PixxSplitter DR8

User manual



DMX4ALL®

For your own safety, please read this user manual and warnings carefully before installation.

Contents

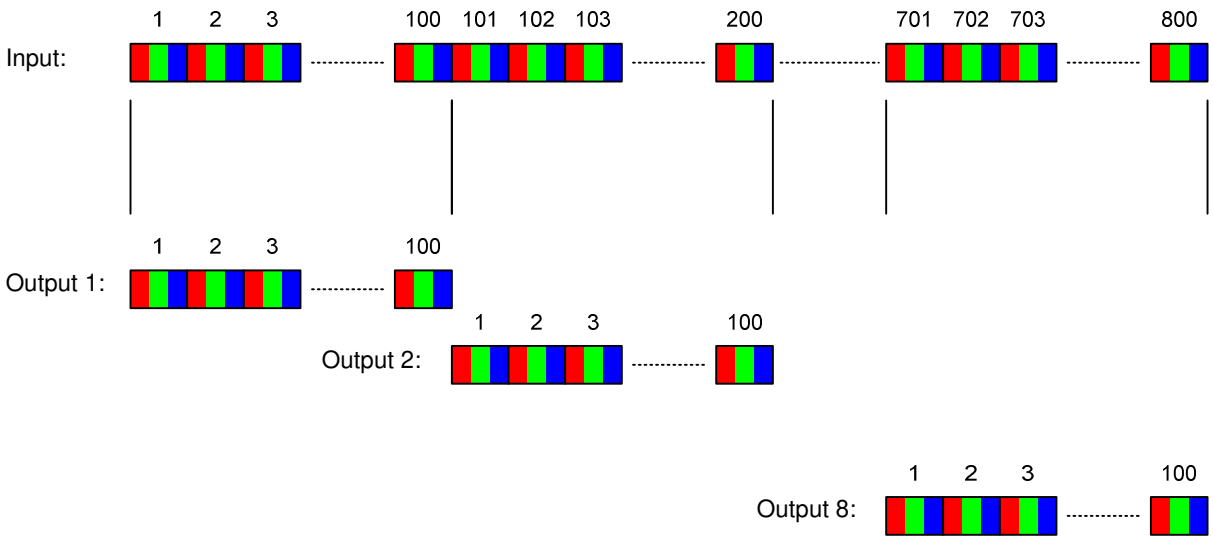
Decription

The **PixxSplitter DR8** is a manifold for a digital LED signal to up to 8 connected digital LED-Strips.

Up to 999 RGB or RGBW pixels can be connected to each output.

The input signal, coming from a pixel controller, contains control information for all connected pixels. This allows to control up to 8 different digital LED-Strip elements with just one control unit. The wiring is radial.

In the Default-Setting, the number of pixels on each output is set to 100 RGB pixels. In total a pixel controller drives 800 RGB pixels, whereby the first 100 pixels (pixels 1-100) are connected to output 1, the second 100 pixels (pixels 101-200) to output 2, etc:

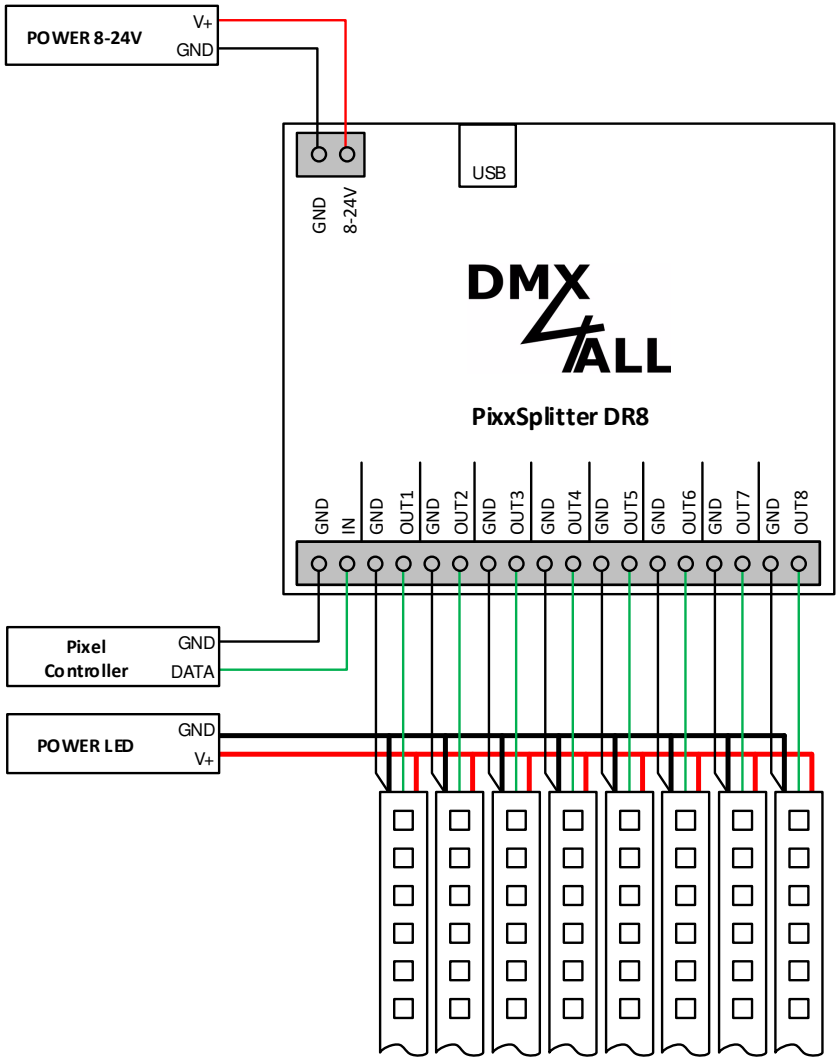


Data Sheet

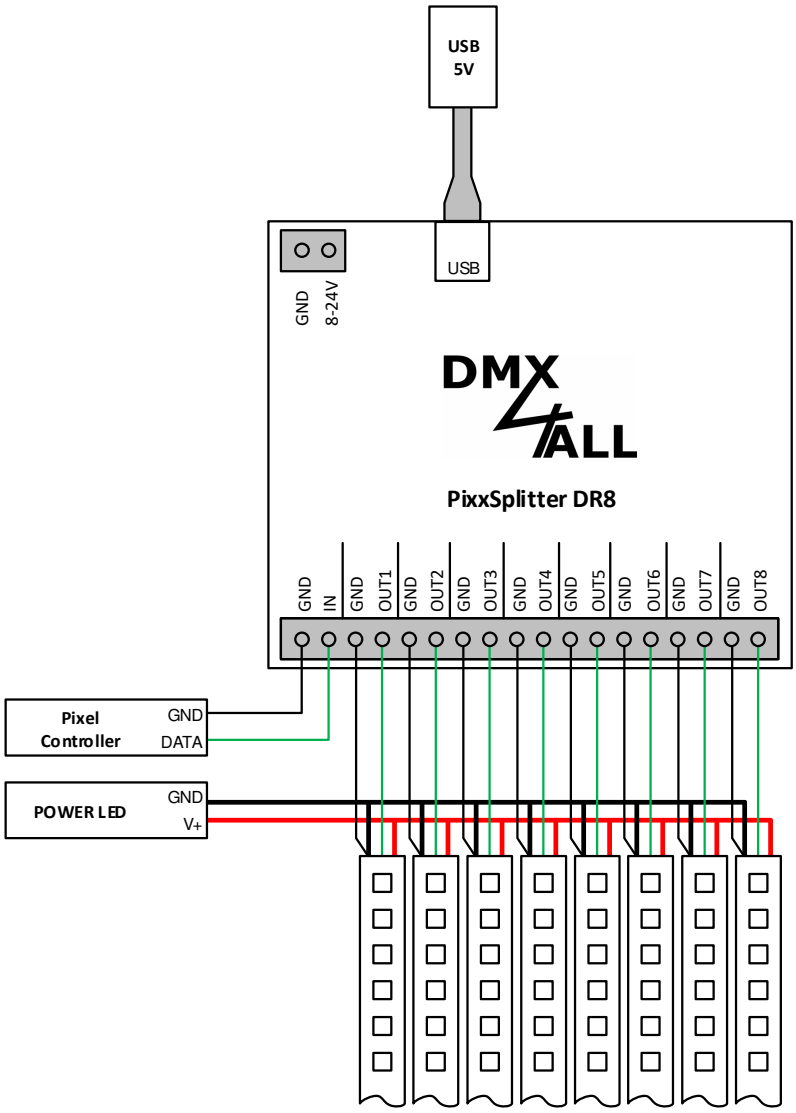
Power supply:	8-24V / 100mA 5V / 100mA via Mini-USB connector
Input:	Control signal for digital LED-Stripes
Output:	8x Control signal for digital LED-Stripes
Compatible LED-Types:	SK6812 GS8208 INK1002, INK1003 WS2811, WS2812(B)
Color sequence:	RGB / RGBW (adjustable)
Number Pixel/Output:	1 - 999 Pixel
Display:	3 digit 7 segment display 8 LEDs
Controls:	3 buttons (UP / DOWN / SELECT, SET)
Dimensions:	99mm x 82mm

Connection

Power supply 8-12V



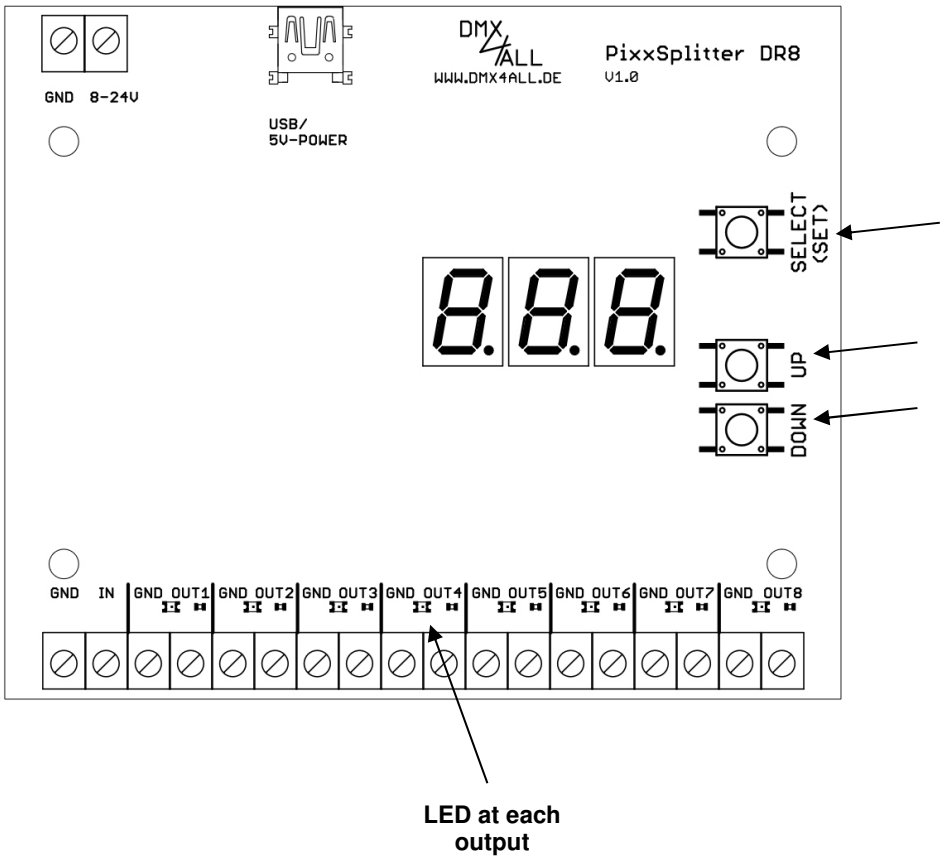
Power supply 5V or USB



Set number of Pixel

The number of pixels per output can be set between 1 and 999.

With SELECT the outputs can be switched. Each pressing generates a switch, the LED at the outputs glows and the number of set pixel is displayed for this output.



Pressing UP and DOWN sets the number of pixel within the range 1 to 999.

Select RGB / RGBW

The PixelSplitter DR8 can be used for digital RGB as well as for digital RGBW LED-Stripes. Therefore the color setting must be selected according to the used pixel stripe on the PixelSplitter.

Mixing RGB and RGBW at different outputs is not allowed!

A color depth of 3 is to set for RGB, RBG, GRB etc. and a color depth of 4 for RGBW, RBGW, GRBW etc.

By using digital LED-Stripes (without RGB) with only coolwhite or warmwhite 3 channels must be set, because there are three white chips shored for example in the SK6812 COOLWHITE or SK6812 WARMWHITE !

By pressing SELECT the outputs are selected in row.
Press SELECT again the display shows C which displays the color depth adjustment.

By pressing UP and DOWN the color depth between 3 and 4 is switched.

Store Settings

Press and hold SELECT (SET) saves the settings.

Execute Firmware-Update

The **PixxSplitter DR8** has an Update-Function to transfer future Firmware

Please proceed as following:

- Turn off the device
- Press UP and DOWN simultaneously
- Meanwhile connect the **PixxSplitter DR8** to PC with a USB-Cable
- Start Update-Software **DMX4ALL USB-Updater**
- Select the **PixxSplitter DR8** from the list
- Click Firmware-Update
- Select and confirm Firmware-File (.bin)
- Wait until the update has finished

 If an error occurs during the update you can start again at any time

Accessories

Digital LED Stripes / Pixel Stripes
- Digital LED Stripe SK6812
- Digital LED Stripe WS2812(B)
- Digital LED Stripe GS8208

USB-Cable A → Mini B 5pin.

Mini-USB Power Supply 5V/1,5A

CE-Conformity

CE

This assembly (board) is controlled by a microprocessor and uses high frequency. In order to maintain the properties of the module with regard to CE conformity, installation into a closed metal housing in accordance with the EMC directive 2014/30/EU is necessary.

Risk-Notes

You purchased a technical product. Conformable to the best available technology the following risks should not excluded:

Failure risk: The device can drop out partially or completely at any time without warning. To reduce the probability of a failure a redundant system structure is necessary.

Initiation risk: For the installation of the board, the board must be connected and adjusted to foreign components according to the device paperwork. This work can only be done by qualified personnel, which read the full device paperwork and understand it.

Operating risk: The Change or the operation under special conditions of the installed systems/components could as well as hidden defects cause to breakdown within the running time.

Misusage risk: Any nonstandard use could cause incalculable risks and is not allowed.

Warning: It is not allowed to use the device in an operation, where the safety of persons depend on this device.

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