

PixxSplitter DR8+

User manual



DMX [®]
4
ALL



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

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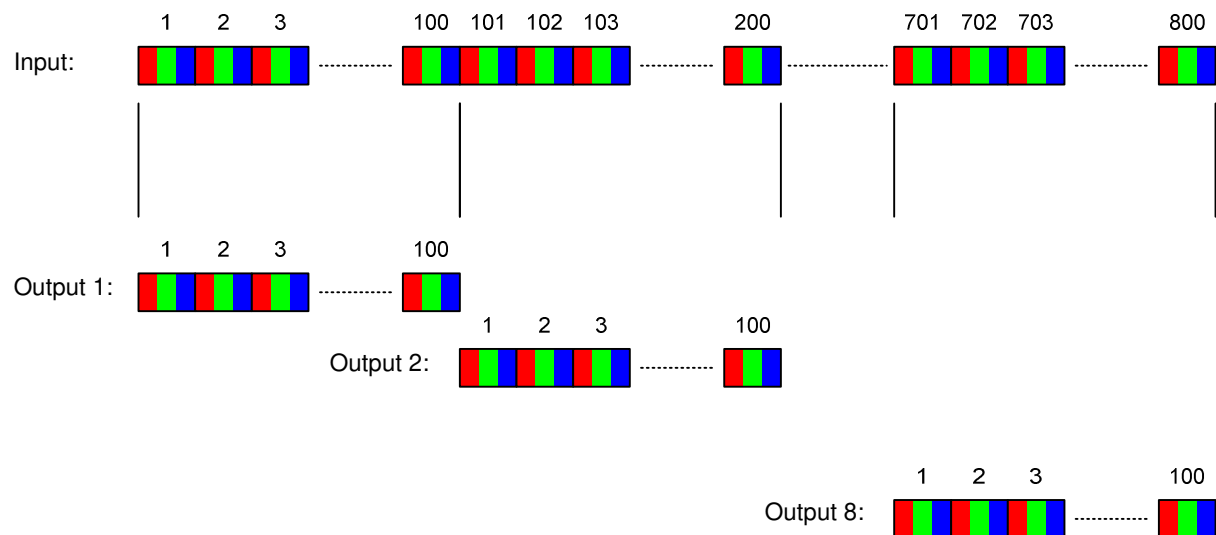
Decription

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:

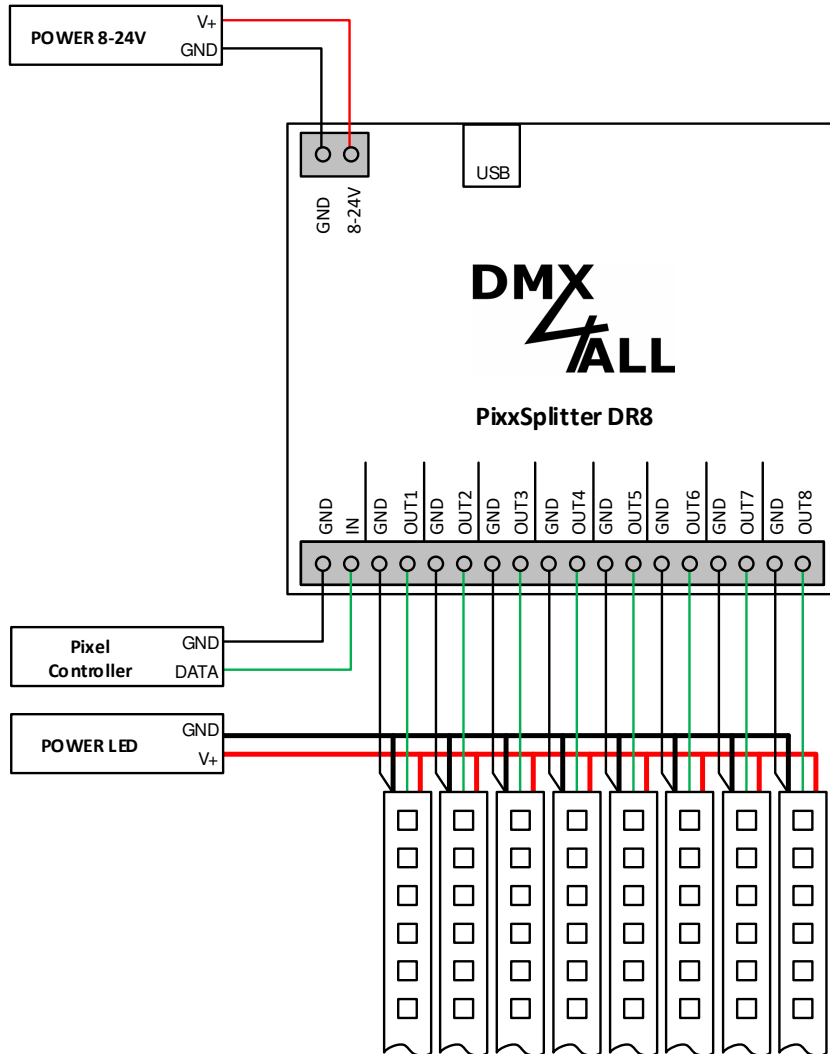


Data Sheet

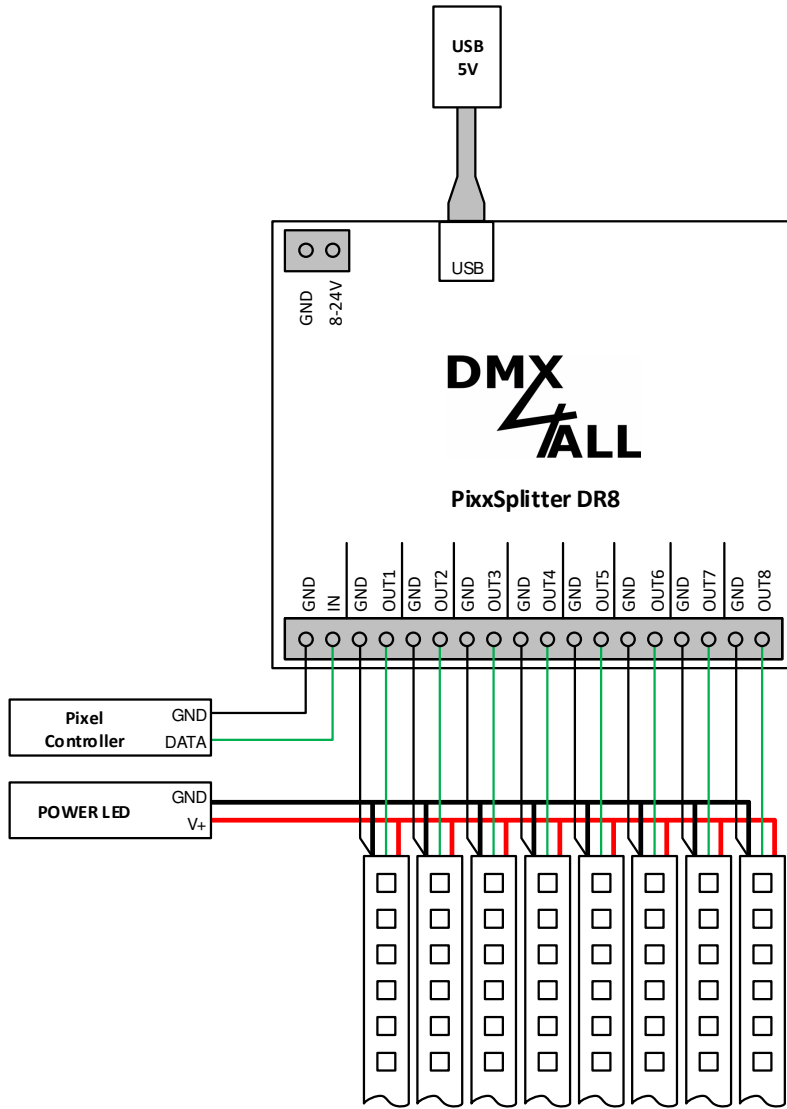
Power supply:	8-24V / 100mA 5V / 100mA via Mini-USB connector
Input:	Control signal for digital LED-Stripes
Output:	8x control signal for digital LED-Stripes
Compatible LED-Types:	SK6812 GS8208 INK1002, INK1003 WS2811, WS2812(B)
Color sequence:	RGB / RGBW (adjustable)
Number Pixel/Output:	1 - 999 Pixel
Display:	4 digit 7 segment display 1 RGB-LED
Control elements:	3 sensor buttons (UP / DOWN / MENU, SELECT)
Dimensions:	105mm x 90mm x 60mm

Connection

Power supply 8-24V



Power supply 5V or USB



Status Display

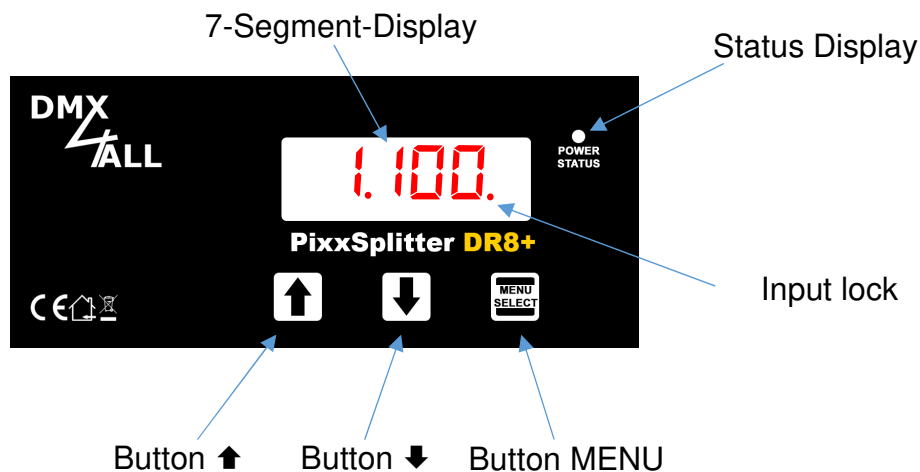
The integrated RGB-Status Display is a multifunctional display.



Off	Power supply not connected / Display is off
RED	No signal detected at input
GREEN	Signal detected at entry Device is ready for operation

Settings

The settings on the PixxSplitter DR8+ can be made via the 7-segment display and the 3 buttons.



Input lock

After switching on the PixxSplitter DR8+ or if no button is pressed for ca. 15 seconds, the input lock is automatically activated and the display shows the set number of pixels for the first output.

The activated input lock is shown by a dot lighting up at the right bottom of the display.

To cancel the input lock, press any button for ca. 3 seconds. During this time, the input lock display flashes until it finally turns off.

Menu guide

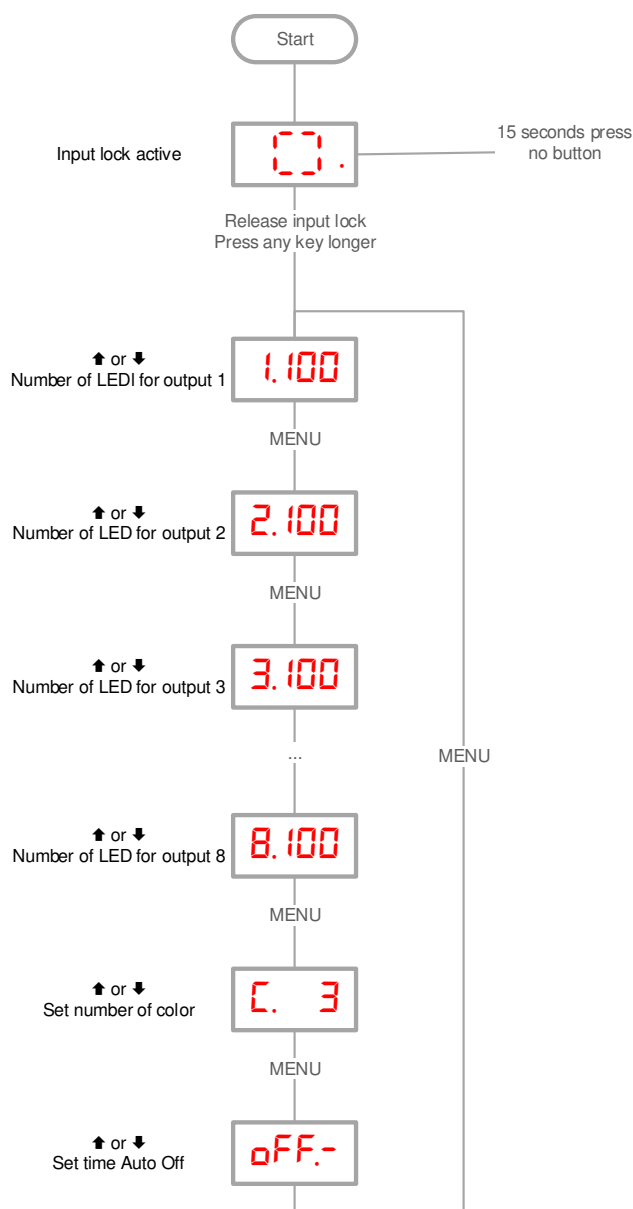
Several menu items are settable which can be set, using the buttons **↑** or **↓** on the display.

The menu item is displayed with a letter codes followed by the set value.

The letter codes are assigned as follows:

- [** color number
- oFF** AutoOff time

The menu navigation is shown as follows:



Set number of Pixel

The number of pixels per output can be set from 1 up to 999.

To select the output for which output the input is made please use the MENU button.

The number before the dot corresponds to the output (1-8).

The number after the dot corresponds to the set number of LEDs (001-999).

Pressing the buttons **↑** or **↓** to sets the number of LEDs from 1 up to 999.

Select pixel type 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 DR8.

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 cool-white or warm-white 3 channels must be set, because there are three white chips shored for example in the SK6812 COOLWHITE or SK6812 WARM-WHITE!

The setting is adjustable via the menu **⏏** .

Pressing the buttons **↑** or **↓** the color depth is adjust between 3 and 4 or ALL.

If ALL is set, the input signal is outputted at all outputs.

Display Switch Off

The displays on the PixelSplitter DR8+ can be switched off, so there are no disturbing light sources during the operation.

The automatically switch off is set within the menu 0FF.

Pressing the button \uparrow or \downarrow adjusts the switch off time range between 1 and 9 minutes or OFF (-).



Only during the normal operation, the display switches off is possible (permanent input signal) after the set time has passed. If the DMX signal fails or a button on the device is pressed, the display switches on again and the elapsed time is reset.

Store Settings

The settings will be stored as soon as the input lock is activated.

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

Factory Reset



Read all the steps carefully before carrying out the factory reset.

To set the **PixxSplitter DR8+** into the factory settings please proceed as follows:

- Switch on the device (power supply on)
- Switch within the menu to $\square FF$ (Display Switch Off)
- Press and hold all buttons simultaneously (\blacktriangle and \blacktriangledown and **MENU**) until after ca. 5 seconds - - - - appears on the display
- Now, the Factory Reset is executed
- The device is ready for operation

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

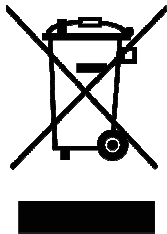


CE-Conformity



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.

Disposal



Electronical and electronic products must not be disposed in domestic waste. Dispose the product at the end of its service life in accordance with applicable legal regulations. Information on this can be obtained from your local waste disposal company.

Warning



This device is no toy. Keep out of the reach of children. Parents are liable for consequential damages caused by nonobservance for their children.

Risk-Notes



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