NUVOLIGHT
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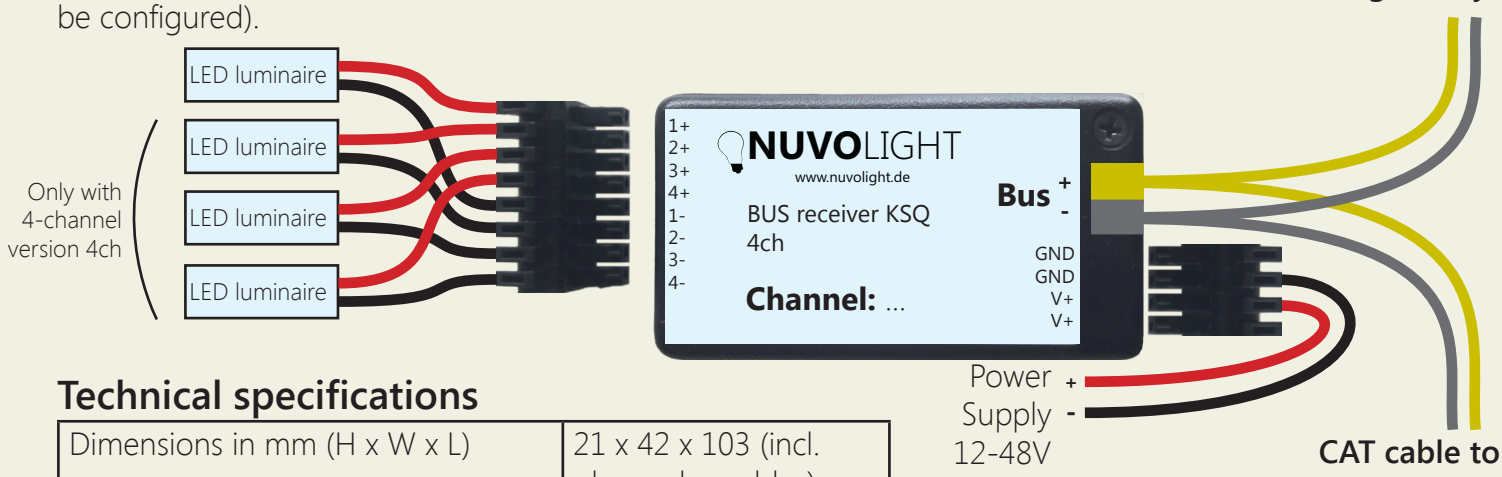
BUS Receiver 4ch/1ch Constant current

Art.-Nr.: 112014 (4ch variant) and 112011 (1ch variant)

The Nuvolight BUS Receiver Constant current is a small and powerful LED-Controller for smooth dimming of current dependent LED lights. The device can be controlled by DMX Protocol* or by WIFI.

Installation

As soon as the BUS Receiver is switched on, the green status LED starts pulsating. Fast and steady blinking tells that a DMX signal is present. After a few minutes, the controller stops blinking. Thus, no secondary light is emitted when installing the controller in a visible area. (Time interval can be configured).



Technical specifications

Dimensions in mm (H x W x L)	21 x 42 x 103 (incl. plugs, plus cables)
Power supply	12V to 48V DC ***Use a CV power supply with constant voltage***
Resolution dimming curve per CH	16 Bit (65536 steps)
Color	Black
Protection	IP20
Cable type BUS	CAT7, one pair of cable cores
Cable type power supply	max. 1,5mm² flex
Cable type LED connection	max. 1,5mm² flex

4-channel version

Max. output current	350mA per channel ***other values on request***

1-channel version

Max. output current	980mA ***other values on request***

** For luminaires that work with constant voltage and are dimmed using PWM, e.g. LED strips, please use our controller BUS Receiver 6ch PWM.*

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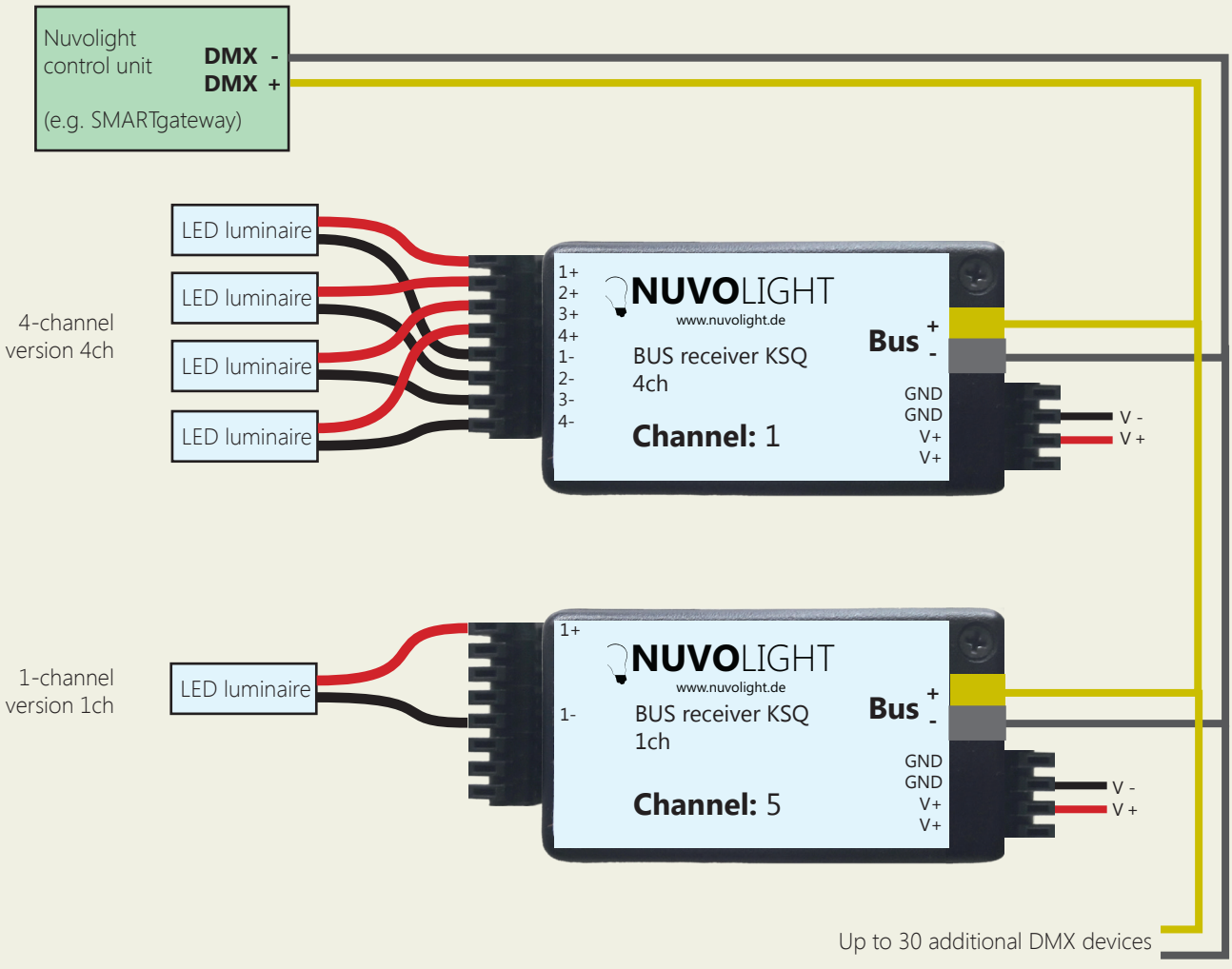
Connection example

Up to 32 BUS receivers or other DMX-capable controllers can be connected to a Nuvolight control unit with DMX output. Each BUS receiver can be controlled individually by appropriate addressing. Up to four LED lights can be connected to a 4ch constant current bus receiver, which can also be controlled individually. Only one luminaire can be connected to a 1ch constant current bus receiver, but this also allows a higher power consumption.



NOTE:

It is essential to ensure that the connected illuminant is designed for the maximum output current of the BUS receiver. The illuminant must be designed for at least 350mA (4-channel variant 4ch) or at least 980mA (1-channel variant 1ch). If your lamp only tolerates lower currents, the BUS receiver can be adjusted at the factory.

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DMX addressing

The BUS receiver reacts to four consecutive addresses in the DMX protocol. The first channel is set as the start address. The data received on the start channel and the three following address numbers determine the dimming states of the outputs.

The address assignment is as follows:

4ch version

Start address	CH1-	e.g. red
Start address + 1	CH2-	e.g. green
Start address + 2	CH3-	e.g. blue
Start address + 3	CH4-	e.g. white

1ch version

Start address	CH1-

The start address is preset at the factory (see labeling), but can also be changed manually via WLAN using the browser interface. Valid DMX addresses range from 1 to 512.

Change DMX start address

1. Supply the BUS receiver with power. The BUS receiver now provides a WIFI network for ten minutes via which settings can be made.

2. Connect your computer, tablet or mobile phone to the network of the BUS receiver via WIFI.

Network-name: *SMARTxxx_XX:XX:XX:XX:XX:XX*
Password: ***nuvolight123***

3. Now type the following address into your browser:
http://192.168.4.1

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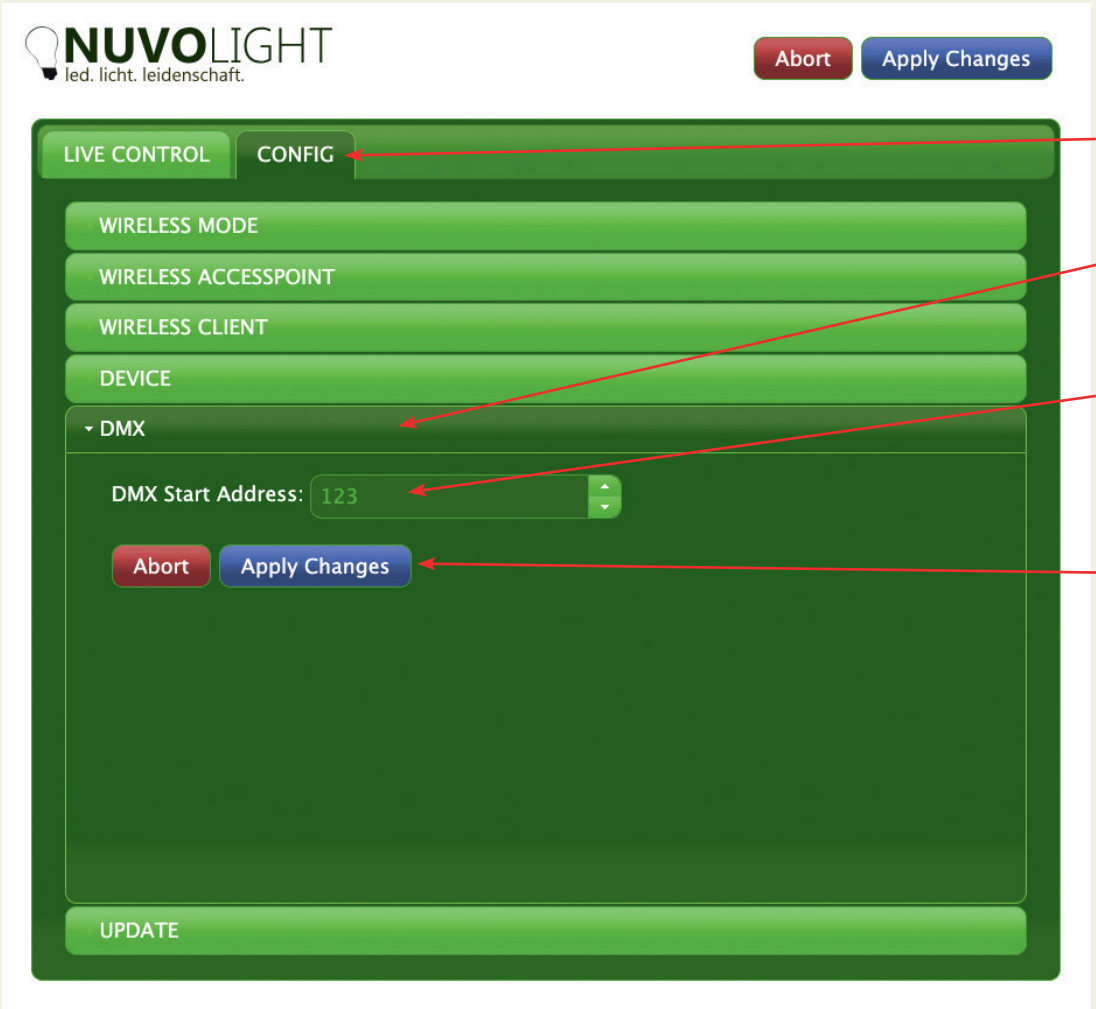
4. Now set the start address via the browser interface. To do this, click on the **CONFIG** tab. and select the sub-item **DMX**. Type the desired start address in the associated text field and then click **Apply Changes**.

The BUS receiver now restarts with the set start address. The WLAN connection is interrupted.



1. Choose „CONFIG“ tab

2. Choose „DMX“ tab

3. Enter desired start address

4. Click on „Apply Changes“

The network connection is now interrupted because the device restarts.

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Further configuration options

Menu	Selection option	Function
WIRELESS MODE	Accesspoint	The device offers its own WIFI to connect to it via the browser interface.
	Accesspoint + Station	The device also tries to connect to another existing network so that it can be controlled wirelessly.
WIRELESS ACCESSPOINT	SSID, Password, Channel	Network name and password of the WIFI network the device offers. **CAUTION: Incorrect settings can block access to the configuration of the device! It's best not to change anything here.**
	Timeout [min]	The time after the device is switched on after which the configuration WLAN is switched off.
WIRELESS CLIENT	SSID, Password	Network name and password of the WLAN to which the BUS receiver is to connect.
	Hostname	The name under which the device logs on to the network
	DHCP	On: The BUS receiver expects that it will be assigned an IP in the network (standard) Off: The BUS Receiver uses the self-assigned IP address, gateway, subnet mask and DNS IP addresses below
DEVICE	Status LED Timeout	The time after which the green status LED inside the device is switched off. A value of 0 means that the status LED never goes out (standard)
	Power Range	The minimum and maximum power that the device delivers at the output. **CAUTION:** **With the Controller BUS Receiver 4ch constant current, the limitation relates to the sum of the four channels! For example, if the maximum power is set to 50% and CH1 is set to 100% while CH2, CH3 and CH4 are set to 0%, the full 350mA will still be output to CH1, since the sum of the currents of all channels CH1-4 (350mA + 0mA + 0mA + 0mA) are less than or equal to 50% of the total possible power (50% of 4 x 350mA = 700mA). LED lamps that cannot withstand the output current of the BUS receiver can be damaged in spite of the limited power range.**
	No-DMX Boot Value	If this option is set, the outputs go back to the boot settings if there is no DMX signal.
DMX	DMX Start Address	The DMX start address
UPDATE	Current Firmware	The current firmware version
	Upload	Firmware update. The new firmware can be uploaded as a file from the computer to the BUS receiver.

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