

# LED STRIP LS48/18.RGBW



LED STRIP LS24/RGBW

## 1. Product description

Qbus offers a range of high-quality LED strips working on 24VDC and 48VDC. They can be perfectly controlled by Qbus modules in stand-alone version or via the bus system. The LED strip is packed in an antistatic package and rolled on a reel.

We developed this LED strip with 48 Volt voltage, to increase the ease of installation. Higher powers, longer distances and longer LED strips are therefore possible. At the same time, we have opted for the best possible LED in function of light quality. The high numbers of LEDs ensure a nice spread of light. By adding extra components, we also have the power under control, so that when using the correct power source (48V) no overcurrent is possible.

The LS48/18.RGBW color LED strip can be colored controlled via a DMX controller or via our constant voltage dimmer CVD04SA. Both devices can be connected to the bus and can be part of a fully controlled home automation system. The LED strip has 90 LED's per meter to ensure homogeneity of the emitted light. Low current per LED in combination with power limiters, ensures lower temperature and overcurrent protection to ensure a long life.

The strip length is 10m and can be used from both sides and cut to the desired length in steps of 16,66 cm (15 LED's). A long connection cable is provided on both sides. The LED strip has a 3M adhesive tape type 300LSE. This strong adhesive tape is extremely suitable for this application, due to its high adhesive strength, even at high temperatures.

## 2. Safety rules

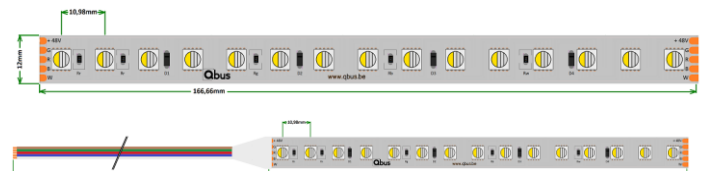
Read the complete manual before installing and powering on the LED strips.

## ATTENTION

- The LED strips must be installed and maintained by a licensed electrical installer in accordance with the applicable legal requirements of the country.
- The power must be turned off before working on the LED strips.
- Never connect alternating voltage (eg 230V ~) directly to the power cables of the LED strips. This will cause irreparable damage.
- Only to be used in combination with DC 48V SELV.
- Cut only at designated cut-points every 16,6 cm and turn off the power supply while cutting.
- Be careful when unpacking and installing the LED strips, as with all semiconductor appliances electrostatic discharge should be avoided.
- Only use PWM dimmers that are suitable for a voltage of 48VDC. In an ideal scenario the LED strips are controlled by the Qbus CDV04SA module in stand-alone mode or directly via the system bus.
- When calculating the power supply, provide 10% extra power on top of the theoretical power of the LED strip.

## 3. Dimensions, mounting and wiring

### Dimensions



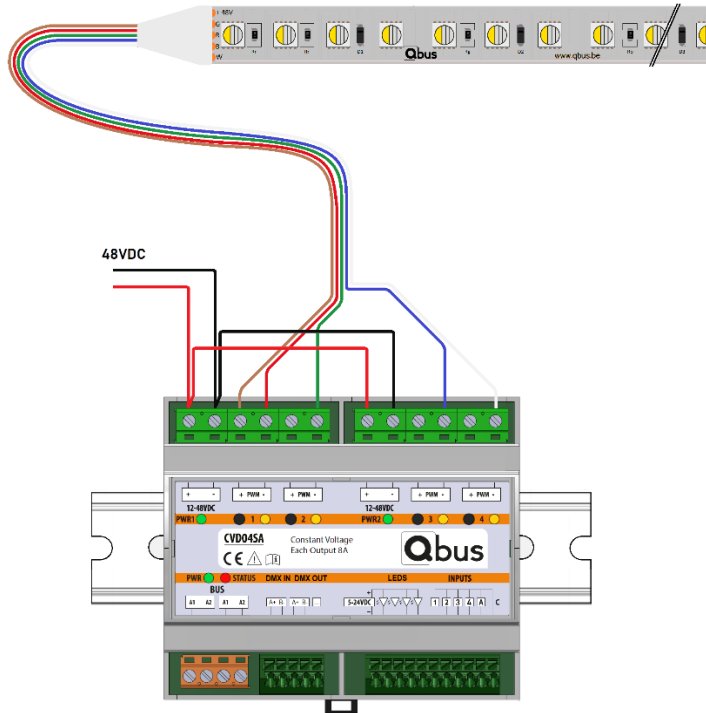
### Mounting

The LED strip has to be mounted on an aluminum profile that dissipates heat in a sufficient way. To prevent static discharge on the components, the installer must touch a grounded object on a regular basis.

The LED strip must be mounted in an aluminum profile. For installation with limited heat emission, at least 30mm aluminum profile must be used. Never exert great force on the LED strip, as well as avoiding torsion and too short bending radius.

### Wiring

# LED STRIP LS48/18.RGBW



# LED STRIP LS48/18.RGBW

---

## 4. Technical data

### LS48/18.RGBW

- Length: 10m
- LED's per m: 90
- Cutting: every 16,66cm / 15 LED's at designated cut points
- Power consumption: 18W/m
- Constant Current technology powered by Constant Voltage: 48VDC
- CRI: 80 (RGBW)
- Operating temperature: -20 to +50 °C
- Input voltage 48V DC
- Dimensions: 10000 x 12 mm

### Electrical safety

- In accordance with EN60950 – 1: 2006
- Non-toxic, in accordance with WEEE/RoHS
- In accordance with EMC low voltage directives and HBES – EN50090-2-2 and EN60950 – 1: 2006 +A11:2009 + A1:2010 + A12:2011 + A2:2013

## 5. Guarantee provisions

Period of guarantee: 5 years from date of delivery. Guarantee will not be accepted if the device has been opened!

Faulty units should be sent postage-free with a description of the defect to our central customer service center:

QBUS N.V.	T +32 53 60 72 10
Joseph Cardijnstraat 19	F +32 53 60 72 19
9420 Erpe-Mere	Email: support@qbus.be
Belgium	