

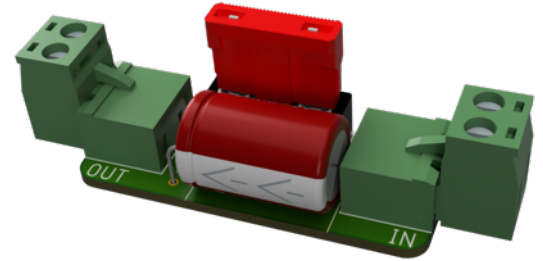
WLED Fused Power Capacitor Board V0.4

Art. No. 90062-0.4

cod.m

Individual digital solutions

- Capacitor board with integrated fuse to protect LED strips in WLED installations
- Integrated LED to indicate a defective fuse
- Fuse max. 10A, fuse holder for fuses of type ATO, mini or micro flat fuse
- 1000µF/35V capacitor to prevent voltage dips
- Maximum 10A load capacity
- Suitable for 5V, 12V and 24V installations
- WEEE-registered, Made in Germany, Open-Source (CC-BY-SA)



Commissioning

1. Connect the WLED Fused Power Capacitor Board to the power supply of the Pixelstrip according to the connection diagram below. We generally recommend using it at every power feed of the installation
2. Connect input voltage/power supply unit to IN, power supply of the strip to OUT, ensure correct polarity.
3. Position the WLED Fused Power Capacitor Board with the shortest possible cable path to the strip, see <https://learn.adafruit.com/adafruit-neopixel-uberguide/powering-neopixels>.

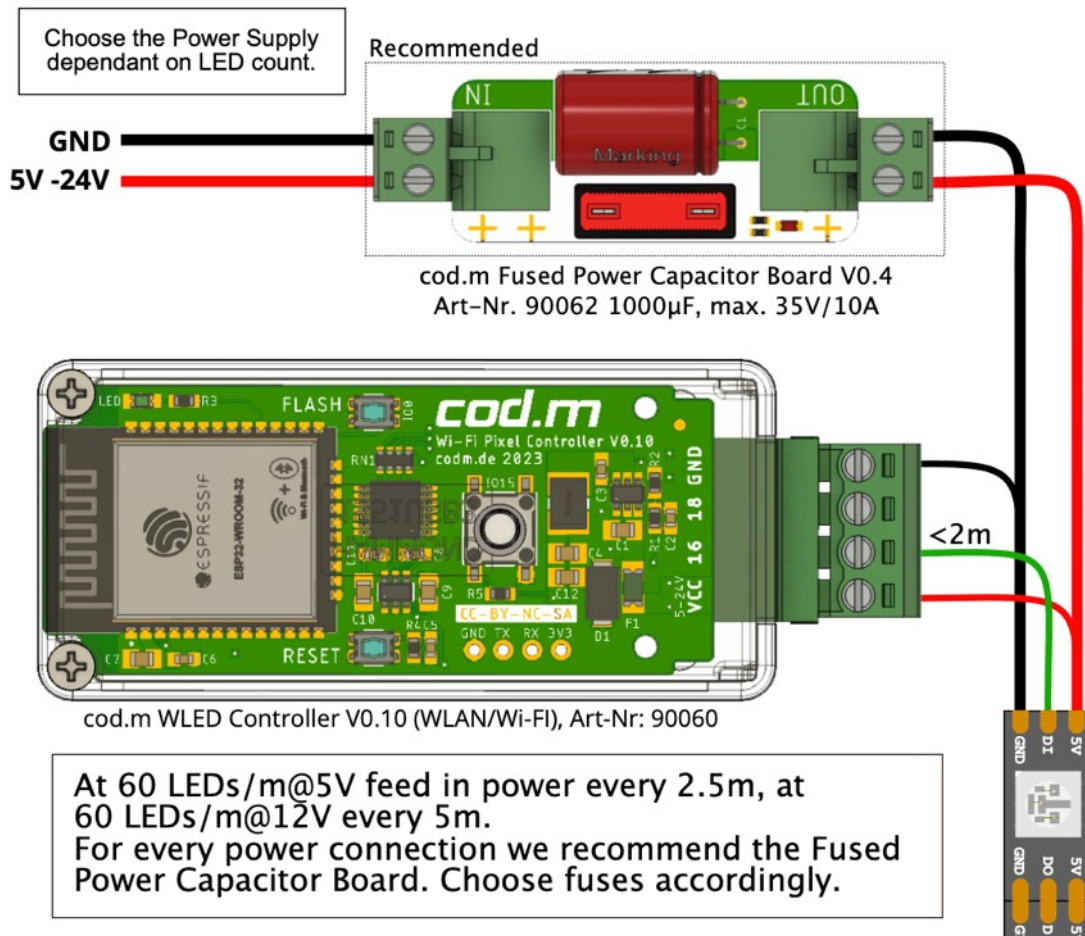
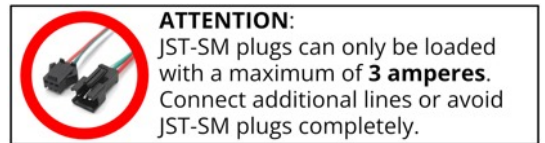


Figure 1- Wiring using the example of WS281x, 5-24V

Function

The module is designed to reduce interference from the power supply and the voltage dips that occur on addressable digital LED strips when there are abrupt changes in brightness.

It also allows the feed to be fused with a maximum of 10A. Smaller ATO, mini or micro flat fuses can also be used (2A, 3A, 4A, 5A, 7.5A).

If the fuse is defective or pulled, the integrated LED lights up. This may also occur when the LED strip is not connected (load).

Due to the integrated capacitor and depending on the voltage, the LED may light up up to 10 seconds after the fuse has tripped.

Intended use

Only fuses compatible with the fuse holder may be used, see [1]. Only fuses up to max. 10A may be used. Fuse values lower than 10A are possible.

Only the specified intended use is permitted. Any other use leads to exclusion of warranty and liability.

Safety instructions

Keep the module away from heat and sunlight. Avoid contact with dust and the influence of liquids. Only use the modules indoors. Protect the modules from electrostatic discharge.

Technical data

Short description:	cod.m WLED Fused Power Capacitor Board V0.4	Dimension:	52 x 20 x 16mm (without plug/fuse) 70 x 20 x 24mm (incl. plug/fuse)
Supply voltage:	5V/12V/24V, max. 10A	Weight:	19g (incl. plug/fuse)
Ambient temperature:	+5 to +45°C		

Open source project (CC-BY-SA): Support via support@codm.de, no telephone support!

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[1] https://www.keyelco.com/product.cfm/product_id/296