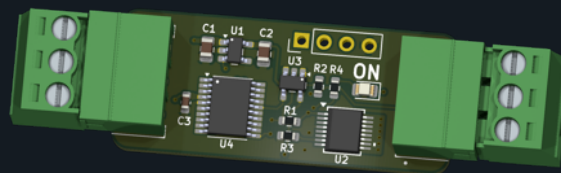


WLED Auto OFF

V1.0 · Art. No. 90068

Disconnects the supply of addressable LED strips based on signal activity – and restores it in milliseconds.



5–24 V

supply

10 A

max. load current

5 s

until switch-off

~50 ms

until switch-on

At a glance

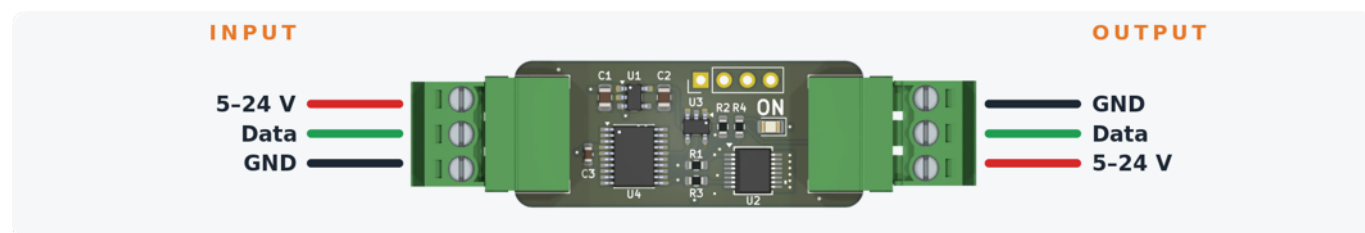
- Switches the supply of an addressable LED strip off and on again automatically, based on signal activity
- Monitors the data signal (WS281x / SK681x and similar)
- Supply is restored automatically as soon as data activity resumes
- Data signal is passed straight through – WLED operation is not affected
- Suitable for 5 V, 12 V and 24 V installations
- Used between a WLED output or Range Extender OUT and the LED strip, or at a power injection point
- Status LED shows the switching state of the output voltage (can be disabled)
- Made in Germany · CE · RoHS · WEEE

How it works

The WLED Auto OFF module is inserted into the line between a WLED output (data and supply) and the connected LED strip. It can equally sit at an additional injection point and switch that section based on signal activity.

A microcontroller on the module continuously monitors the data signal. If no active WLED data is detected for 5 seconds, an internal solid-state high-side switch (max. 10 A) disconnects the strip's supply voltage completely and thereby reduces the standby consumption of the installation. Once data is present again, the supply is restored within ~50 ms – there is practically no perceptible delay.

Connections



Input: data signal and supply voltage from the output of the WLED controller or of the WLED Range Extender OUT module.

Output: the data signal passed straight through to the LED strip plus the switched supply voltage, optionally fused with the WLED Fused Power Capacitor Board (90062).

Input and output are marked with an arrow on the back of the module. The terminal assignment is mirrored at the two ends – when wiring, go by the labelling on the board.

At an additional injection point, only data and GND are carried over at the transition between two sections. The V+ line of the preceding section ends there; the following section is supplied exclusively through its own Auto OFF module.

The connection diagram covering both variants is available at docs.codm.de.

Solder jumpers

There are two solder jumpers on the back of the board, both closed as delivered – the module is ready to use without any modification. To open one, cut the bridge between the pads with a sharp knife; to close it again, bridge the pads with solder.

- **Enable Auto OFF** – open, the supply stays switched on permanently – useful during troubleshooting.
- **Enable ON LED** – open, the status LED stays dark. The function of the module is unchanged.

Commissioning

1. With the installation disconnected from power, wire the WLED Auto OFF module between the WLED output and the LED strip, or at the additional injection point, as shown in the diagram.
2. Make sure the cable cross-section matches the power draw of the connected LED strip.
3. Switch on the power supply. The module requires no configuration and is ready to use immediately.
4. While LED data is active the strip supply stays switched on. After the inactivity period without LED data it is disconnected automatically, and reconnected as soon as there is activity again. The status LED shows the current switching state.

Intended use

This module is intended to switch the power supply of addressable LED strips on and off automatically, based on signal activity. Only the intended use stated here is permitted. Any other use voids warranty and liability.

Safety instructions

- Keep the module away from heat and direct sunlight.
- Avoid contact with dust and the influence of liquids.
- Use the module indoors only.
- Protect the module from electrostatic discharge.

Technical data

Short name	cod.m WLED Auto OFF V1.0, Art. No. 90068
Supply voltage	5–24 V DC
Load current	max. 10 A
Switching times	switches off after 5 s of inactivity · switches back on within ~50 ms
Signal	WS281x / SK6812 and compatible, single-wire
Dimensions	PCB approx. 38 × 16 mm
Weight	approx. 8.5 g incl. plugs
Ambient conditions	IP20 · +5 to +45 °C
Connection	pluggable screw terminal, 3-pole per side

Support by e-mail only: support@codm.de – no telephone support.

Conformity & disposal

Conformity

cod.m GmbH hereby declares that the module complies with EMC Directive 2014/30/EU and RoHS Directive 2011/65/EU. The full text of the EU declaration of conformity is available at:

<https://lnk.codm.de/wled-90068-ce>

Disposal

Waste electrical equipment does not belong in household waste. At the end of its life, hand the module in at a municipal collection point.

WEEE reg. no.: DE78677954

The full connection diagram covering both variants is available at lnk.codm.de/wled-90068-wiring-en – or via the QR code.

