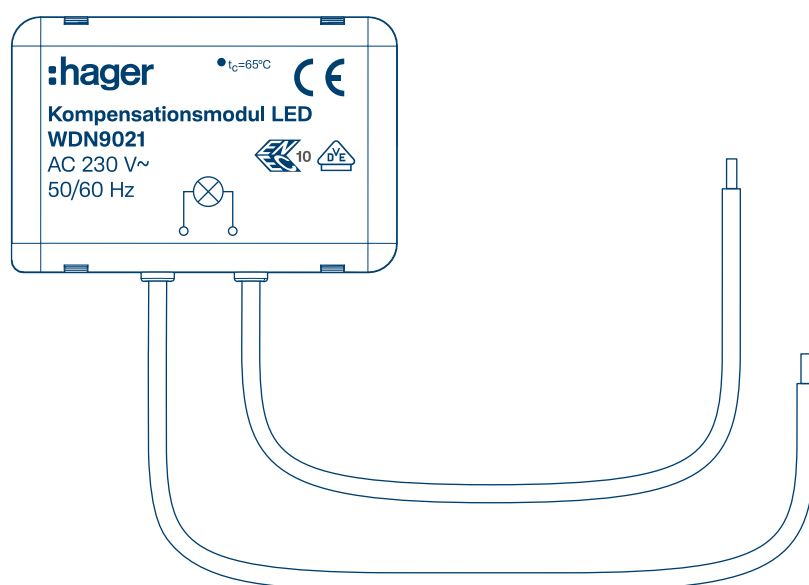


Light control Compensation module LED



Compensation module LED for dimmer

WDN9021

CE

1	Safety instructions.....	3
2	Function.....	4
3	Information for qualified electricians.....	5
3.1	Installation and electrical connection.....	5
4	Appendix.....	7
4.1	Technical data.....	7
4.2	Troubleshooting.....	7
4.3	Disposal note.....	8

1 Safety instructions

Electrical devices may only be installed and assembled by a qualified electrician in accordance with the relevant installation standards, guidelines, regulations, directives, and safety and accident prevention regulations of the country of installation.

Danger due to electric shock. The device incorporates basic insulation. The device should only be used in a suitable enclosure.

Failure to comply with these installation instructions may result in damage to the device, fire or other dangers.

These instructions are an integral component of the product and must be retained by the end user.

2 Function

Intended use

- Use in combination with flush-mounted universal dimmers referenced WAC4010, WL4011xx, WT-N4011xx working in the phase section, which are operated with dimmable HV LED lamps.
- Indoor use
- Suitable for installation with luminaire, device boxes according to DIN 49073 or sub-distribution systems.

The compensation module is used to:

- Improves dimming performance of dimmers that are not optimised for HV-LED lamps.
- to prevent HV LED lamps operated on a dimmer from glowing when switched off.



The compensation module has no influence on the dimming characteristic, nor can the dimming range and the basic brightness be set.

Dimming results and dimming quality can vary depending on cable lengths, network conditions and other influencing factors. No warranty is ensured for the function, dimming results and dimming quality.

3 Information for qualified electricians

3.1 Installation and electrical connection



Danger

Electric shock when live parts are touched!

An electric shock can lead to death!

- Disconnect all connection cables before working on the device and cover any live parts in the area!

Connection and installation of the module



One compensation module is typically sufficient for three HV-LED lamps. If more HV LED lamps are connected to a dimmer, several compensation modules can be connected in parallel.

For a dimmer that works according to the phase-cut principle, the maximum connected power for HV LED lamps is 200 W.

The minimum connected power of the dimmer used depends on the HV LED lamp used. Ideally, this can drop to approx. 3 W.

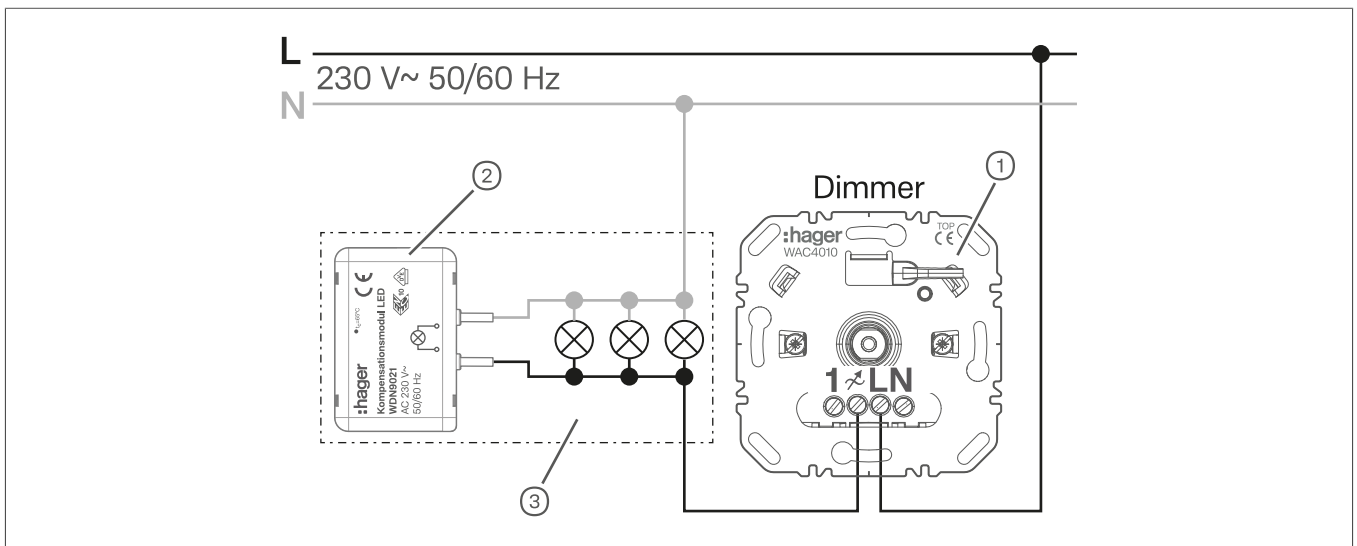


Fig. 1: Connection example in influencing factors

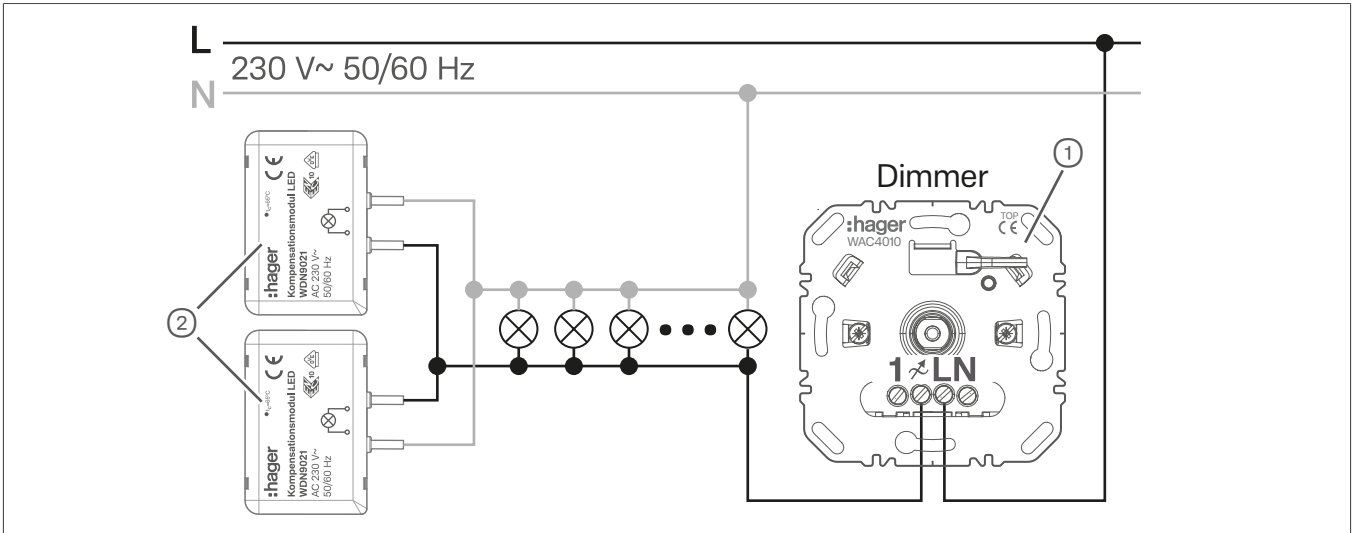


Fig. 2: Connection example with two modules

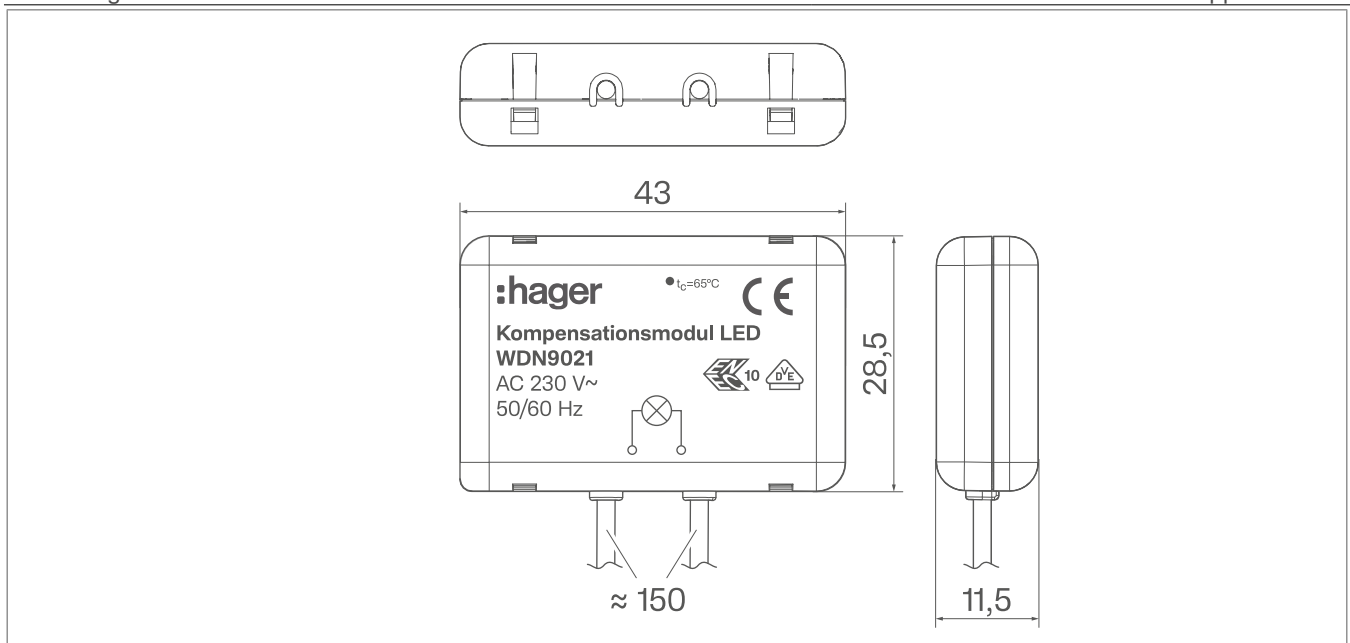
- ① Dimmer in phase-cut mode
- ② Compensation module
- ③ Lighting with HV LED lamp

- Connect the compensation module parallel to the HV LED lamp to the neutral conductor and the dimmed phase, (Fig. 1) Connection example in the luminaire housing, (Fig. 2) Connection example with two compensation modules.

4 Appendix

4.1 Technical data

Nominal voltage	230 V~
Mains frequency	50/60 Hz
Power dissipation	≤ 2 W
Housing Temperature (TC)	< 65 °C
Storage/transport temperature	-25 ... 75°C
Pollution degree	2
Dimension (L×W×H)	28.5/ 43.0/ 11.5 mm
Cable length	Approx. 15 cm



4.2 Troubleshooting

After some time, the HV LED lamps flicker.

The compensation module becomes too hot.

💡 Connect another compensation module in parallel.

The HV LED lamps flicker immediately after switching on.

The current flow through the compensation module and HV LED lamps is not sufficient to ensure the operation of the dimmer.

💡 Connect another compensation module in parallel.

Lamps are not suitable for combination with the dimmer and the module.

💡 HV LED lamps

The universal dimmer operates in leading edge phase mode.

💡 Compensation module is not suitable for phase-cut operation. Make sure that the connected lamps are phase-dimmable and that the dimmer is working in phase-cut mode.

4.3 Disposal note

Disposal note



Correct disposal of this product (electrical waste).

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its documentation indicates that it should not be disposed of with other household waste at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this device from other types of waste. Recycle the device responsibly to promote the sustainable reuse of material resources.

Household users should contact either the dealer where they purchased this product, or their local government office, for details of where and how they can take this device for environmentally safe disposal.

Commercial users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.



Berker GmbH & Co. KG

Zum Gunterstal

66440 Blieskastel

Germany

T +49 6842 945 0

F +49 6842 945 4625

info@hager.com

hager.com