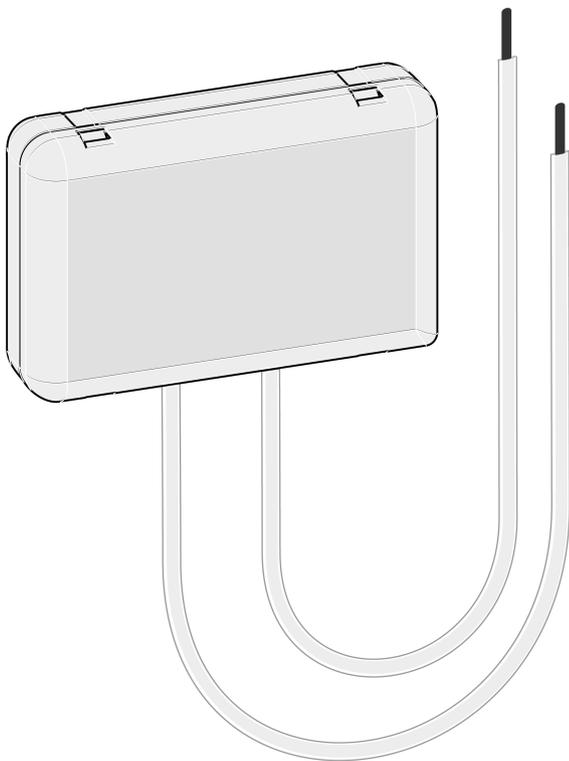


Compensation module LED

Product information

This document is based on the installation instructions of the device and provides you with further information, e.g. about functions and operation, etc.

CCT90501
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Safety information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that accompany this symbol to avoid possible injury or death.



DANGER!

DANGER

indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING!

WARNING

indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION!

CAUTION

indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Additional notes



You will find additional information here to make your work easier.

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1 For your safety



DANGER!

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electric cables
- Safety standards, local wiring rules and regulations

Failure to follow these instructions will result in death or serious injury.

1.1 Safety instructions



Electrical devices may only be mounted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. The device has basic insulation. Operation is only admissible in a suitable housing.

These instructions are an integral part of the product, and must remain with the end customer.

2 Function

Intended use

- Use in combination with dimmers in trailing edge phase control mode, which are operated with dimmable HV-LED lamps.
- Use indoors
- Installation in luminaire, appliance box according to DIN 49073 or sub-distribution.

The module is used to:

- improve the dimming behaviour of dimmers which are not optimised for HV-LED lamps.
- to avoid that HV-LED lamps which are connected to a dimmer glow when switched off.



The module does not have any influence on the dimming characteristic and cannot be used to adjust the dimming range or basic brightness.



Dimming results and dimming quality could vary depending on cable lengths, grid conditions and other influencing factors. We cannot assume any guarantee for function, dimming results and dimming quality.

3 Information for electrically skilled persons

⚡ DANGER!

Electrical shock on contact with live parts in the installation environment.

Electrical shocks can be fatal.

- Before working on the device, disconnect the power supply and cover up live parts in the working environment.

Connecting the module

- i** One module is usually sufficient for three HV-LED lamps. If more HV-LED lamps are connected to a dimmer, several modules can be connected in parallel.
- i** For a dimmer which functions according to the trailing edge phase control principle, the maximum connected load of HV-LED lamps is 200 W.
- i** The minimum connected load of the dimmer used depends on the HV-LED lamp used. Ideally, it can be reduced to approx. 3 W.

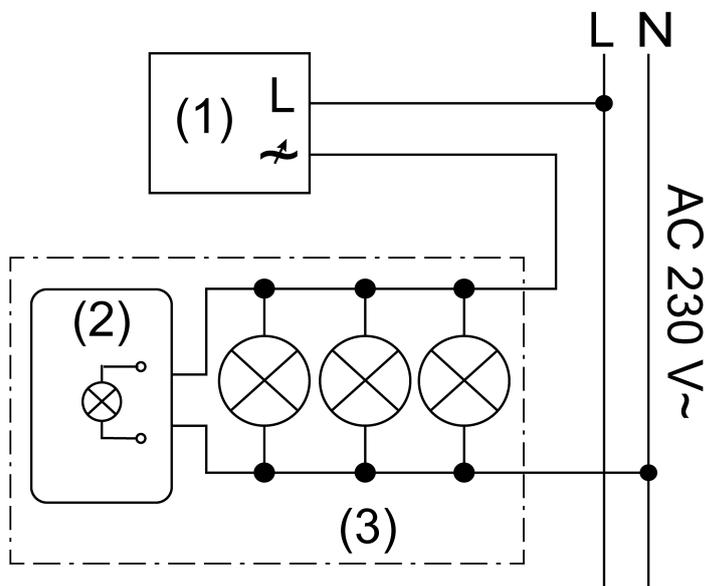


Image 1: Example for connection in luminaire housing

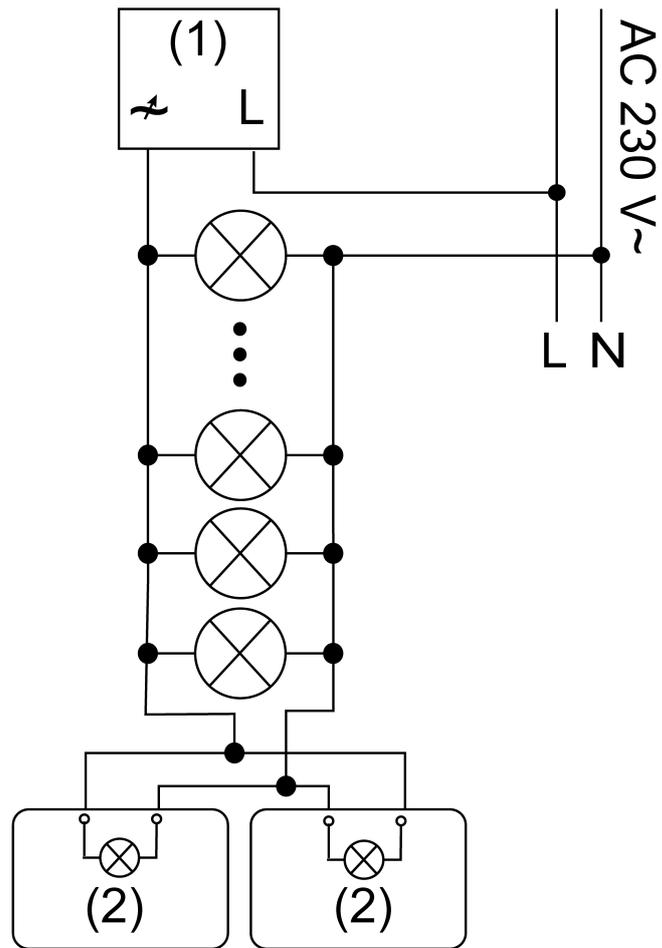


Image 2: Connection example with two modules

- (1) Dimmer in trailing edge phase control operation
 - (2) Module
 - (3) Luminaire with HV-LED lamp
- Connect the module to neutral conductor and to the dimmed phase, parallel to the HV-LED lamp, (see figure 1) example for connection in luminaire housing, (see figure 2) connection example with two modules.

4 Technical data

Rated voltage	AC 230 V~
Mains frequency	50 / 60 Hz
Power loss	max. 2 W
Housing temperature (tc)	max. 65 °C
Storage/transport temperature	-25 ... +75 °C
Dimensions L×W×H	28.5×43.0×11.5 mm
Cable length	approx. 15 cm

5 Troubleshooting

The HV-LED lamps flicker after some time

Cause: module becomes too hot.

Connect another module in parallel.

The HV-LED lamps flicker immediately after switch-on

Cause 1: The current flow through module and HV-LED lamps is not sufficient to ensure the operation of the dimmer.

Connect another module in parallel.

Cause 2: Lamps are not suitable for combination with dimmer and module.

Exchange the HV-LED lamps.

Cause 3: Universal dimmer operates in leading edge phase control mode.

Module is not suitable for leading edge phase control. Ensure that the connected lamps are dimmable in trailing edge phase control and ensure that the dimmer operates in trailing edge phase control mode.

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If you have technical questions, please contact the Customer Care Centre in your country.

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