

**Wireless dimming actuator, 1-gang Mini**

Order No. : 5420 00

**Operating instructions****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.** Always disconnect before carrying out work on the device or load. In so doing, take all the circuit breakers into account, which support dangerous voltages to the device and or load.

**Danger of electric shock.** Device is not suitable for disconnection from supply voltage. The load is not electrically isolated from the mains even when the device is switched off.

**Risk of destruction** if the set operating mode and load type do not match. Set correct operating mode before connecting or exchanging the load.

**Fire hazard.** For operation with inductive transformers, each transformer must be fused on the primary side in accordance with the manufacturer's instructions. Only safety transformers according to EN 61558-2-6 may be used.

**Do not connect any luminaire with integrated dimmers.** Device can be damaged.

**Do not connect any LED or compact fluorescent lamps that are not specifically suitable for dimming.** Device can be damaged.

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

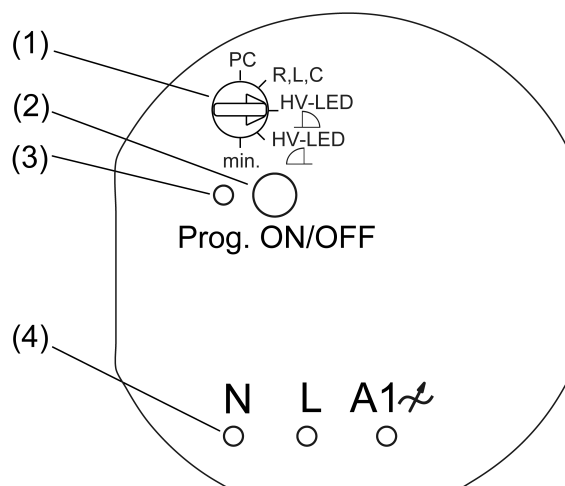
**2 Device components**

Figure 1: Front view

- (1) Operating mode switch
- (2) Button **Prog**
- (3) Status LED
- (4) Measuring points for voltage measurement, terminals rear-mounted

### 3 Function

#### Intended use

- Switching and dimming of incandescent lamps, HV halogen lamps, electronic transformers for halogen or LED lamps, dimmable inductive transformers for halogen or LED lamps, HV-LED or compact fluorescent lamps
- Operation with suitable radio transmitters
- Mounting in appliance box according to DIN 49073 in combination with a suitable cover
- Installation in surface-mounted housing or panel-mounted housing (accessories) for suspended ceilings
- i** If inductive or electronic transformers are connected, observe the data of the transformer manufacturer on loads and the dimming principle.
- i** Depending on the design and power rating of the LED lamps, the connected load of the specified values could vary.
- i** HV-LED and compact fluorescent lamps generate high pulsed currents, when they are operated in the leading edge phase control.
- i** Dimming results and dimming quality could vary depending on cable lengths, grid conditions and other influencing factors. We cannot assume any guarantee for the function, dimming results and dimming quality in connection with LED lamps.
- i** When connecting dimmable LED lamps or compact fluorescent lamps, set the operating mode that is suitable for this purpose.

#### Product characteristics

- Switch-on via bulb-preserving soft start
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Scene operation possible
- Status indication with LED
- Status feedback to radio transmitter
- Switchable with **Prog.** button
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Automatic or manual setting of the dimming principle suitable for the load
- i** Flickering of the connected lamps due to undershoot of the specified minimum load or through centralised pulses from the power stations. This does not represent any defect in the device.
- i** Brief flickering upon load detection possible. No operation is possible during load detection.
- i** Power extension possible by means of power boosters. Do not connect any LED lamps or compact fluorescent lamps in combination with power boosters.

Can be set with eNet server:

- Maximum brightness
- Dimming speed
- Switch-on delay / switch-off delay
- Dim up/dim down ramp
- Switch-off warning
- Operation locks
- Continuous on, Continuous off
- Hotel function
- Run-on time
- Light control
- i** When operating with the eNet Server, operation and signalling could vary from what is described here.

Supplementary functions with eNet Server:

- Fully encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Repeater function
- Reading of error memory

## Response after mains voltage return

The response after mains voltage return can be configured with the eNet Server. Default setting: Off.

## 4 Operation

### Operation with radio transmitter

Operation is with radio transmitters, please observe the radio transmitter instructions.

## 5 Information for electrically skilled persons

### 5.1 Fitting and electrical connection



#### **DANGER!**

**Electrical shock when live parts are touched.**

**Electrical shocks can be fatal.**

**Before carrying out work on the device or load, disengage all the corresponding circuit breakers. Cover up live parts in the working environment.**

#### Connecting and fitting the device

To ensure good transmission quality, keep a sufficient distance from any possible sources of interference, e.g. metallic surfaces, microwave ovens, hi-fi and TV systems, ballasts or transformers.

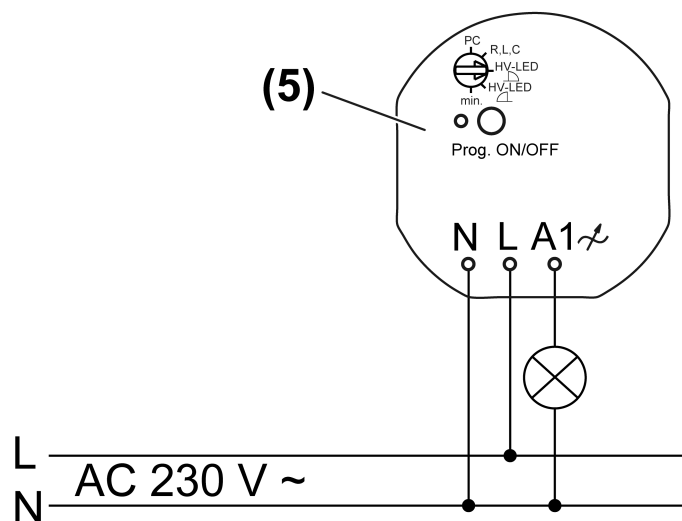


Figure 2: Connection diagram

#### (5) Dimmer

- i** HV-LED lamps and compact fluorescent lamps: Only connect lamps of one manufacturer and of the same type.
- i** Observe delivery state. Before connecting HV-LED lamps or compact fluorescent lamps, set the operating mode that is suitable for this purpose. , select LED trailing edge phase control for the highest possible output power.
- i** Connect 600 Watt LED lamps or compact fluorescent lamps at most per 16 ampere circuit breaker.

**CAUTION!**

**Danger of destruction from mixed loads.**

**The dimmer and load may be destroyed.**

**Do not connect capacitive loads, e.g. electronic transformers, and inductive loads, e.g. inductive transformers, together on the same dimmer output.**

**Do not connect inductive transformers together with HV LED lamps or compact fluorescent lamps on the same dimmer output.**

- Connect the load according to connection diagram (Figure 2).
- i Power extension possible by means of power boosters. Make selection in accordance with the dimmer and load. Do not connect any LED lamps or compact fluorescent lamps in combination with power boosters.
- Insert the actuator in the appliance box in such a way that the **Prog** button (2) and status-LED (3) are visible.

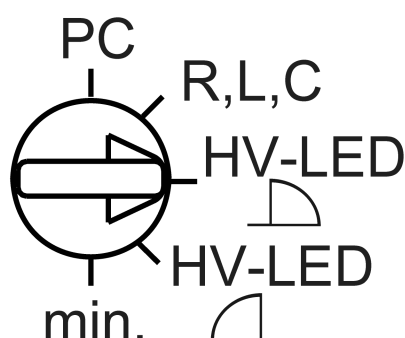




Figure 3: Operating mode switch

Switch position	Function
<b>PC</b>	Dimming principle and parameter set with eNet Server *)
<b>R,L,C</b> Universal	Automatic calibration to the load, dimming principle, leading edge phase control or trailing edge phase control. Connection of incandescent lamps, HV halogen lamps, electronic transformers for halogen or LED lamps or dimmable inductive transformers for halogen or LED lamps.
<b>HV-LED</b>  LED leading edge phase control	Setting for incandescent lamps, HV halogen lamps, electronic transformers with halogen or LED lamps that can be dimmed according to the trailing edge phase control principle or dimmable HV-LED or compact fluorescent lamps that can be dimmed according to the leading edge phase control principle. The connection of inductive transformers is not permitted.

<b>HV-LED</b>  LED trailing edge phase control	Setting for incandescent lamps, HV halogen lamps, electronic transformers with halogen or LED lamps that can be dimmed according to the trailing edge phase control principle, dimmable HV-LED or compact fluorescent lamps that can be dimmed according to the trailing edge phase control principle. The connection of inductive transformers is not permitted.
<b>min.</b>	Setting of the minimum brightness

- \*) If the operating mode switch is turned from the position **PC**, the operating mode and parameters are set to the default setting. The settings made with the eNet Server will be lost. When setting the minimum brightness, the parameter settings remain unchanged.



### CAUTION!



**Risk of destruction if the preset dimming principle and connected load do not match.**

**The dimmer and load may be destroyed.**

**Before changing the dimming principle, observe load type.**

**Before changing the load type, make sure that the dimming principle is correct.**

Mains voltage is switched off.

- Set the operating mode switch.
- Switch on mains voltage.
-  The light can be switched by briefly pressing the **Prog** button.  
Status-LED (3) lights up: switched on  
Status LED (3) off: switched off
- Perform commissioning.
-  In installation positions that are not easily accessible, turn the operating mode switch to position **PC** after commissioning and performing a function test. Subsequent changes to the device settings can thus be carried out with the aid of the eNet Server without involving excessive installation work.
- Mount the cover.

## 5.2 Commissioning




### DANGER!

**Electrical shock when live parts are touched.**

**Electrical shocks can be fatal.**

**Before working on the device, cover up live parts in the working environment.**

-  The actuator can also be commissioned with eNet Server as an alternative to the commissioning described here.

### Connecting with radio transmitter

Load is switched off.

- Press button **Prog** (2) for longer than 4 seconds.  
The status LED (4) flashes after 3 seconds. The actuator is in programming mode for approx. 1 minute.
- Switch radio transmitter to programming mode (see radio transmitter instructions).
- Trigger telegram on the radio transmitter.  
The status LED (3) lights up for 5 seconds.  
The actuator is connected to the radio transmitter. The actuator and radio transmitter exit the programming mode automatically.

- i** If the status LED of the actuator flashes 3 times at 1-second intervals for approx. 5 seconds, then the programming operation was not successful. All the memory locations in the actuator or radio transmitter are occupied.
- i** All On and All Off buttons of a radio transmitter are connected to the actuator automatically as soon as the first connection to a radio transmitter takes place. Scene buttons must be connected separately.

### Disconnecting connection to a radio transmitter

- Carry out the same steps as when connecting (see Connecting to radio transmitter).  
The status LED (3) flashes quickly for 5 seconds. The actuator is disconnected from the radio transmitter. The actuator and radio transmitter exit the programming mode automatically.
- i** If there several connections or scene buttons for a radio transmitter, all connections must be disconnected individually.
- i** All On and All Off buttons of a radio transmitter are disconnected automatically as soon as the last connection to the radio transmitter is disconnected. Manual disconnection is not possible.

### Resetting actuator to default setting

All connections to radio transmitters are disconnected and parameters are reset to default setting. If the operating mode switch is on PC, the dimming principle universal, automatic calibration to the load, is set.

- i** The connections in the radio transmitters are preserved and must be deleted separately. Load is switched off.
- Press the **Prog** button for at least 20 seconds.  
The status LED flashes after 4 seconds. After 20 seconds the status LED flashes faster.
- Release **Prog** button and press briefly once again within 10 seconds.  
The status LED flashes more slowly for approx. 5 seconds.  
The actuator is reset to default setting.

### Setting the minimum brightness

The minimum brightness can be set within a range of approx. 1...67 %, if, e.g. the light flickers at low brightness or to compensate for differences in brightness.

- Turn operating mode switch (1) to the **min.** position.
- Adjust brightness with the radio transmitter.
- Turn operating mode switch to the original position again.  
When leaving the position **min.**, the minimum brightness is saved.

### Save switch-on brightness

- Switch on light.
- Adjust brightness with the radio transmitter.
- Press button **Prog** (2) for longer than 4 seconds.  
The light switches off briefly and then switches on again to the new switch-on brightness. Switch-on brightness is saved.
- i** Alternatively, the switch-on brightness can be saved with a radio transmitter, e.g. wall transmitter.

## 6 Appendix

### 6.1 Technical data


Rated voltage  
Mains frequency  
Power loss  
Standby power  
Ambient temperature

AC 230 V ~  
50 / 60 Hz  
max. 1.5 W  
max. 0.5 W  
-25 ... +70 °C

## Connected load at 45 °C

- i** Power specifications including transformer power dissipation.
- i** Operate inductive transformers with at least 85% nominal load.
- i** For ohmic-inductive mixed load, maximum 50% proportion of ohmic load. Otherwise incorrect calibration of the dimmer may result.

Incandescent lamps	20 ... 250 W
HV halogen lamps	20 ... 250 W
Electronic transformers	20 ... 250 W
Electronic transformers with LV-LED	typ. 20 ... 100 W
Inductive transformers	20 ... 250 VA
Inductive transformers with LV-LED	typ. 20 ... 100 VA
HV-LED lamps	typ. 3 ... 70 W

- i** If the operating mode is set to HV **LED**  LED trailing edge phase control, the maximum connected load for LED lamps increases to typ. 200 W.

Compact fl lamp. typ. 3 ... 70 W

Mixed load	
ohmic-inductive	20 ... 250 VA
ohmic-capacitive	20 ... 250 W
capacitive-inductive	not permitted
Ohmic and HV LED	typ. 3 ... 70 W
Ohmic and compact fl lamp.	typ. 3 ... 70 W

Power reduction	
per 5°C in excess of 45°C	-5 %
when installed in wooden or dry construction walls	-15 %
when installed in multiple combinations	-20 %

Power boosters See power booster instructions

Connection	
single stranded	0.75 ... 4 mm <sup>2</sup>
Finely stranded with conductor sleeve	0.75 ... 2.5 mm <sup>2</sup>
Contact type	ε
Total length power cable	max. 100 m
Dimensions Ø×H	53×28 mm
Radio frequency	868.0 ... 868.6 MHz
Transmission capacity	max. 20 mW
Transmitting range in free field	typ. 100 m
Receiver category	2

## 6.2 Parameter list

The device parameters can be changed with the eNet server:

### Device and channels

Parameters	Setting options, Basic setting	Explanations
Function	Light, unused Basic setting: Light	<p>Light The channel is integrated for the "Lighting" central function in the <b>eNet SMART HOME</b> app.</p> <p>Unused The channel is not displayed in the <b>eNet SMART HOME</b> app and is disabled for use in the commissioning interface.</p>

Operating mode	Normal operation Continuous on Continuous off Basic setting: Normal Operation	Normal operation The output can be operated with radio transmitters and the <b>Prog</b> button.  Continuous on The output switches to continuously "On". All operations of radio transmitters and the <b>Prog</b> button are ignored.  Continuous off The output switches to continuously "Off". All operations of radio transmitters and the <b>Prog</b> button are ignored.
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### Advanced device settings

Parameters	Setting options, Basic setting	Explanations
Manual commissioning	On, Off Basic setting: On	Blocks manual commissioning for the device channel. Note: In the "Off" setting, the device cannot be reset to the factory setting.
Repeater mode	On, Off Basic setting: Off	In addition to its other functions, the device can be used as a repeater. In the "On" setting, the device repeats all the received telegrams.

### Channel settings

Parameters	Setting options, Basic setting	Explanations
Switch-on brightness	1...100 % Basic setting: 100 %	During brief operation, the output switches on at the set switch-on brightness. Note: If the value is above the set maximum brightness or below the minimum brightness, then the system will switch to the appropriate limit value.
Minimum brightness	1...67 % Basic setting: 5 %	Specifies the minimum settable brightness. Note: If parameters or scene values are set to a level lower than the minimum brightness, then the system will dim to minimum brightness.



Maximum brightness	75...100 % Basic setting: 100 %	Specifies the maximum settable brightness. Note: If parameters or scene values are set to a level higher than the maximum brightness, then the system will dim to maximum brightness.
Dimming adjustment time	1...60 s Basic setting: 4 s	Time from minimum brightness until reaching maximum brightness (dimming speed).
Switch-on delay	0 s ... 24 h Basic setting: 0 s	The load switches on after a delay. Repeated switch-on commands restart the delay time. If the load has not yet been switched on due to the delay when a switch-off command comes, then the load will remain off. Note: The set time apply to operation using radio transmitters. The device is switched immediately when the <b>Prog</b> button is pressed.
Switch-off delay	0 s ... 24 h Basic setting: 0 s	The load switches off after a delay. Repeated switch-off commands restart the delay time. If the load has not yet been switched off due to the delay when a switch-on command comes, then the load will remain on. Note: The set time apply to operation using radio transmitters. The device is switched immediately when the <b>Prog</b> button is pressed.
Dim up ramp	0 s ... 24 h Basic setting: 0 s	Time between switch-on and reaching switch-on brightness. The light is switched on at minimum brightness and then dimmed to the switch-on brightness. Only applies to switch-on with transmitters (short operation). If scenes are recalled or switching uses logic modules, the switch-on brightness is approached using so-called soft dimming (not configurable).

Dim down ramp	0 s ... 24 h Basic setting: 0 s	Time until reaching minimum brightness. The light is dimmed to minimum brightness and then switched off. Only applies to switch-off with transmitters (short operation). If scenes are recalled or switching uses logic modules, the system switches off directly.
Run-on time	0 s ... 24 h Basic setting: 0 s	As soon as a run-on time has been entered, the actuator will no longer remain on permanently, but only for the length of the run-on time. The run-on time is restarted if actuation is repeated. This parameter is directly connected to the "Manual switch-off of run-on time" parameter. Note: The set time apply to operation using radio transmitters. The device is switched immediately when the <b>Prog</b> button is pressed.
Manual switch-off of the run-on time	On, Off Basic setting: Off	Allows manual switch-off of a running run-on time. If the parameter is switched off, then a switch-off command will also switch the actuator on. Only visible if a run-on time was set.
Operating hours	0...65535 Basic setting: Current value	The time is counted during which the load is physically switched on. This parameter can be reset to "0", for example after exchanging the load. The Reset button is used to reset the meter to "0". The device must be programmed to apply the change.

### Extended channel settings

Parameters	Setting options, Basic setting	Explanations
Operating mode	Normal operation Continuous on Continuous off Basic setting: Normal Operation	see Device and channels
Manual commissioning	On, Off Basic setting: On	Blocks manual commissioning for the device channel. Note: In the "Off" setting, the device cannot be reset to the factory setting.

Local Operation	On, Off Basic setting: On	Blocks the output for operation using the <b>Prog</b> button.
Dimming principle	Universal LED leading edge phase control LED trailing edge phase control Leading edge phase control Trailing edge phase control Basic setting: Universal	Specifies the dimming principle for the selected output.  Universal Automatic calibration to the load, dimming principle, leading edge phase control or trailing edge phase control. Connection of incandescent lamps, HV halogen lamps, Tronic transformers for halogen or LED lamps or dimmable inductive transformers for halogen or LED lamps.  LED leading edge phase control Setting for phase-dimmable HV-LED or compact fluorescent lamps that can be dimmed according to the leading edge phase control principle.  LED trailing edge phase control Setting for phase-dimmable HV-LED or compact fluorescent lamps that can be dimmed according to the trailing edge phase control principle.  Leading edge phase control Leading edge phase control dimming principle. Connection of incandescent lamps, HV halogen lamps, dimmable inductive transformers for halogen or LED lamps.  Trailing edge phase control Dimming principle, trailing edge phase control. Connection of incandescent lamps, HV halogen lamps, Tronic transformers for halogen or LED lamps.
Behaviour on voltage return	On Off Last value Configured brightness Basic setting: Off	Defines the behaviour of the output after voltage return.

Brightness on voltage return	0...100 % Basic setting: 100 %	Brightness value, set by the output after voltage return (mains voltage). (Only visible when the parameter "Behaviour on voltage return" is set to "Configured brightness") Note: If the value is above the set maximum brightness or below the minimum brightness, then the system will switch to the appropriate limit value.
Behaviour after the end of the disabling function	On Off no change Last value Basic setting: No change	Behaviour of the output when a block is removed.
Manual saving of the scene values	On, Off Basic setting: On	Disables the saving of the current brightness value as scene value in an actuator for a command via a transmitter.
Switch-off warning	On, Off Basic setting: Off	If the switch-off warning is active, then, during switch-off, the systems dims to minimum brightness within 30 seconds and only then switches off. If the parameter "Dim down ramp" is configured as longer than 30 s, then the length of the dim down ramp is applied. If, during the dim down operation, another command is given, e.g. switch on or scene recall, then the switch-off warning stops and the command is executed. A switch-off command restarts the time for the switch-off warning. Note: The set time apply to operation using radio transmitters. The device is switched immediately when the <b>Prog</b> button is pressed.
Priority, lock-out protection	0...4 Basic setting: 1	Specifies the priority for recalling and removing a scene of type Lock-out protection for the channel. Note: 1 is the highest priority and 4 the lowest. 0 means no priority.
Activate lock-out protection brightness value	0...100 % Basic setting: 0 %	Defines the behaviour of the output on activating the lock-out protection.
Deactivate lock-out protection brightness value	0...100 % Basic setting: 0 %	Defines the behaviour of the output on deactivating the lock-out protection. Only visible when the priority for the lock-out protection is 0.

Priority, restraint	0...4 Basic setting: 2	Specifies the priority for recalling and removing a scene of type Restraint for the channel.
Activate forced operation brightness value	0...100 % Basic setting: 100 %	Defines the behaviour of the output on activating the forced operation.
Deactivate forced operation brightness value	0...100 % Basic setting: 0 %	Defines the behaviour of the output on deactivating the forced operation. Only visible when the priority for the forced operation is 0.
Priority, wind alarm	0...4 Basic setting: 3	Specifies the priority for recalling and removing a scene of type Wind alarm for the channel.
Activate wind alarm brightness value	0...100 % Basic setting: 0 %	Defines the behaviour of the output on activating the wind alarm.
Deactivate wind alarm brightness value	0...100 % Basic setting: 0 %	Defines the behaviour of the output on deactivating the wind alarm. Only visible when the priority for the wind alarm is 0.
Priority, sun protection	0...4 Basic setting: 0	Specifies the priority for recalling and removing a scene of type Sun protection for the channel.
Activate sun protection brightness value	0...100 % Basic setting: 100 %	Defines the behaviour of the output on activating the sun protection.
Deactivate sun protection brightness value	0...100 % Basic setting: 0 %	Defines the behaviour of the output on deactivating the sun protection. Only visible when the priority for the sun protection is 0.
Priority, twilight	0...4 Basic setting: 0	Specifies the priority for recalling and removing a scene of type Twilight for the channel.
Activate twilight brightness value	0...100 % Basic setting: 100 %	Defines the behaviour of the output on activating the twilight function.
Deactivate twilight brightness value	0...100 % Basic setting: 0 %	Defines the behaviour of the output on deactivating the twilight function. Only visible when the priority for the twilight function is 0.

Switch off brightness overshoot	On, Off Basic setting: On	Allows automatic switch-off according to the brightness. If the parameter is On, then the light controller switches off automatically when the brightness setpoint is greatly exceeded. Note: This parameter is not yet active, as a light controller has not yet been implemented.
Switch on brightness undershoot	On, Off Basic setting: Off	Allows automatic switch-on according to the brightness. If the parameter is On, then the light controller switches on automatically when the brightness setpoint is greatly undershot. We recommend only using the parameter in connection with the parameter "Switch-off on brightness overshoot". Note: This parameter is not yet active, as a light controller has not yet been implemented.
Hotel function	On, Off Basic setting: Off	If the hotel function is activated, the system will dim to 20 % brightness when a switch-off command is made. Switch-off is only possible with a forced position command. Note: If the minimum brightness is set to greater than 20 %, then the system dims to the set minimum brightness when the hotel function is activated.

### Information window

In the Information window, the load can be controlled and the information about the device can be displays.

### Channel control/channel information

Display value	Explanations
Current dimming value	The load can be dimmed using the slider or a brightness value entry.
Load state	The load can be switched on or off.
Restraint	Display of forced position status.
Operating hours	Display of the operating hours since the last restart in the Settings window <b>Einstellungen</b> .
Display dimming principle	Display of the used dimming principle.

## 6.3 Troubleshooting

### **Connected LED lamps or compact fluorescent lamps switch off in the lowest dimming position or flicker**

The set minimum brightness is too low.  
Increase minimum brightness.

### **Connected LED lamps or compact fluorescent lamps flicker**

Cause 1: Lamps are not dimmable.

Check manufacturer's instructions.  
Exchange lamps for another type.

Cause 2: Dimming principle and lamps do not optimally match.

Check operation in another dimming principle, reduce connected load as well if necessary.

### **Connected LED lamps or compact fluorescent lamps in the lowest dimming position are too bright; dimming range is too small**

Cause 1: The set minimum brightness is too high.  
Reduce minimum brightness.

Cause 2: HV-LED trailing edge phase control dimming principle does not optimally match the connected HV-LED lamps.

Check operation in the "HV-LED leading edge phase control" setting, reduce connected load as well if necessary.  
Exchange lamps for another type.

### **Dimmer has switched off, status LED (3) flashes 3 times at intervals of 1 second**

Cause 1: Operating mode switch (2) was set to another dimming principle.

The dimming principle was accidentally adjusted: Reset the original dimming principle on the operating mode switch (see chapter 5.1. Fitting and electrical connection).

The dimming principle was intentionally adjusted: Check whether the dimming principle matches the connected load. Switch mains voltage off and on again, the dimmer assumes the new setting.

Cause 2: overheating protection has tripped.

Disconnect dimmer from mains, also switch associated off circuit breakers.

HV-LED phase cut-off: Reduce the connected load. Exchange lamps for another type.

HV-LED phase cut-on: Reduce the connected load. Check operation in the "HV-LED trailing edge phase control" setting. Exchange lamps for another type.

Let dimmer cool down for at least 15 minutes. Check installation situation, ensure cooling, e.g. provide distance from surrounding devices.

Switch circuit breakers and dimmer on again.

Cause 3: Surge protection has triggered.

HV-LED trailing edge phase control: Check operation in the "HV-LED leading edge phase control" setting, reduce connected load as well if necessary.

Exchange lamps for another type.

Cause 4: short-circuit protection has tripped.

Switch off the mains supply.

Eliminate short-circuit.

Switch circuit breakers and dimmer on again.



Short-circuit protection is not based on a conventional fuse, no metallic separation of the operational current.

Cause 5: load failure.

Check load, replace lamp. For inductive transformers, check primary fuse and replace if necessary.

**Lamps flicker or buzz, proper dimming not possible, device buzzes**

Cause 1: Incorrect operating mode set.

Check connected lamps. Correct the set operating mode.

Cause 2: Dimmer is connected without neutral conductor.

Connect neutral conductor if possible.

Exchange lamps.

**LED lamp is dimly lit when dimmer is switched off**

Cause: LED lamp is not suitable for this dimmer.

Use another type of LED lamp or an LED lamp of another manufacturer.

**6.4 Accessories**

eNet Server	Order No. 5301 00
Universal power booster	Order No. 1035 00
Tronic power boost	Order No. 0380 00
LV power boost	Order No. 0364 00
Installation adapter Mini housing	Order No. 5429 00

**6.5 Conformity**

Gira Giersiepen GmbH & Co. KG hereby declares that the radio system type

Order No. 5420 00

corresponds to the directive 2014/53/EU. You can find the full article number on the device. The complete text of the EU Declaration of Conformity is available under the Internet address: [www.gira.de/konformitaet](http://www.gira.de/konformitaet)

**6.6 Warranty**

The warranty follows about the specialty store in between the legal framework as provided for by law

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade). They will forward the devices to the Gira Service Center.

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