

Universal rotary dimmer (R,L,C) and extension units

Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

Danger of electric shock. Always disconnect before carrying out work on the load or power supply. Do not touch the live parts of the circuit breakers that supply dangerous voltage to the device or load.

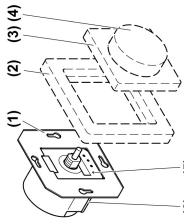
Danger of electric shock. Device is not suitable for disconnection from supply voltage.

The load is not electrically isolated from the mains even when the device is switched off.

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 (VDE 0570 part 2-6) may be used.

Do not connect any electronic lamps, e.g. switchable or dimmable compact fluorescent lamps or LED lamps. Device can be damaged. These instructions are an integral part of the product, and must remain with the end customer.

Device components



picture 1: Device components

- (1) Dimmer
- (2) Frame
- (3) Central plate
- (4) Control button
- (5) Measuring points for voltage test
- (6) Release lever for plug terminal

Function

Intended use

- Switching and dimming of incandescent lamps, HV halogen lamps and dimmable inductive transformers or Tronic transformers with incandescent lamps
- Suitable for mixed operation up to the specified output (see chapter "Technical data")
- Installation in appliance box to DIN 49073

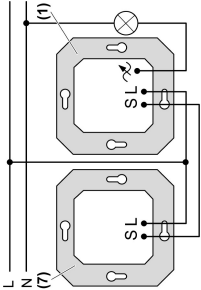
- ⓘ No mixed operation of Tronic and inductive transformers.

Product characteristics

- Connection of more than one dimmer is possible
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Bulb-preserving soft start
- Power extension through power boosters (see power booster instructions)
- Automatic setting of the dimming principle suitable for the load

Load type	Electrical behaviour	Dimming principle
Incandescent lamps	ohmic	Phase cut-off
HV halogen incandescent lamps	ohmic	Phase cut-off

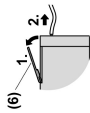
Connecting and mounting the dimmer



picture 4: Connection diagram for dimmer with extension

- Remove approx. 15 mm of insulation from the connecting cables.
- Connect dimmer (1) and optionally an extension (7) according to the connection diagram (picture 4).
- If multiple miniature circuit breakers supply dangerous voltages to the device, couple the breakers to the device load with a warning, to ensure release is guaranteed.
- Install the device in the appliance box. Fit dimmer in appliance box, connection terminals must be at the bottom.
- Mount the frame and the central plate.
- Attach the control button.

Pull the connecting cable out of the push terminal.



picture 5: Releasing plug terminal

- Raise release lever (6) as described in illustration and pull out connecting wire (picture 5).

Appendix

Technical data

Universal rotary dimmer with extension input, Order-No. 2861 10

Rated voltage AC 230 V ~
Mains frequency 50 / 60 Hz
Ambient temperature +5 ... +25 °C

Connected load at 25 °C

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

Incandescent lamps 50 ... 420 W
HV halogen lamps 50 ... 420 W
Inductive transformers 50 ... 420 VA
Ohmic-capacitive capacitive-inductive not permitted

Power reduction per 5 °C in excess of 25 °C when installed in wooden or dry construction walls when installed in multiple combinations

Power boosters See power booster instructions

Connection 1.0 ... 2.5 mm²

Number of extension units max. 100 m

Total length of extension unit cable max. 100 m

Total length power cable max. 100 m

The symbols used to label the dimmer load shows the load type that can be connected to a dimmer and the electric behaviour of a load.
R = ohmic, L = inductive, C = capacitive

Universal rotary dimmer with extension input, Order-No. 2834 ..

Rated voltage AC 230 V ~
Mains frequency 50 / 60 Hz
Ambient temperature +5 ... +25 °C

Connected load at 25 °C

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

Incandescent lamps 50 ... 420 W
HV halogen lamps 50 ... 420 W
Inductive transformers 50 ... 420 VA
Ohmic-inductive capacitive-inductive not permitted

Power reduction per 5 °C in excess of 25 °C when installed in wooden or dry construction walls when installed in multiple combinations

Power boosters See power booster instructions

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Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

Extension unit insert with centre plate for universal rotary dimmer, Order-No. 2862 10

Rated voltage AC 230 V ~
Mains frequency 50 / 60 Hz
Ambient temperature +5 ... +25 °C

Connected load at 25 °C

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Information for electrically skilled persons

Before carrying out work on the device or load, disconnect the power supply. Disengage all the corresponding circuit breakers. Cover up live parts in the working environment.

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