

20-500 VA LV Dimmer

Order no.: 0306 00

Function

LV dimmer for switching and dimming:

- 230/240 V incandescent lamps.
- 230/240 V halogen lamps.
- LV halogen lamps in conjunction with conventional transformers.

Press and turn the control knob to switch and dim.

Control knob pressed: ON - OFF.

Control knob turned: Dimming.

Short-Circuit Protection

Protected by a T 3.15 H 250 microfuse.

In case of malfunctioning, check the microfuse first.
Do not use any fuses other than original.

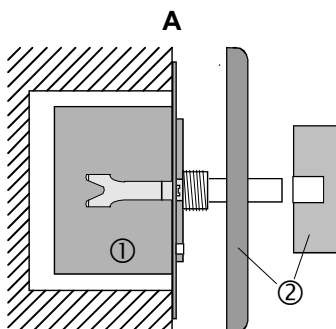
Overtemperature Protection

Overtemperature cut-out with automatic restart after cooling down.

Installation Instructions

The LV dimmer consists of dimmer base ① as well as of a cover with an attached control knob ② (refer to Fig. A).

Install dimmer ① in a connection box as per DIN 49073.



Safety instructions

Attention: Electrical equipment must be installed and fitted by qualified electricians only.

Not suitable for disconnecting.

Non-observance of the installation instructions may cause fire or other hazards.

Important

Not suitable for operation in conjunction with electronic transformers.

Control Output ⑤

Output of the switching state of the LV dimmer for triggering automatic isolating facilities or relays.
The maximum control current is 100 mA.

Note:

Control output: mechanical contact (must not be used for the connection of loads).



Note

The overall power rating of the consumers connected must not exceed the maximum load specified in the technical data.

Operation with mixed loads of the specified types is possible up to the total admissible load.
A minimum load of 20 W/VA is required, or the lamps connected may be caused to flutter.

The connection of electronic transformers is **not** allowed.

Depending upon the type of installation, the maximum connected load must be reduced by:

- 10 % per 5 °C exceeding of the ambient temperature of 25°C.
- 15 % for installation in wooden, gypsum plaster or hollow walls.
- 20 % for installation in multiple combinations.

Upon full utilisation of the LV dimmer, up to 10 LV power attachments (built-in or series-mounted type) can be connected (refer to separate Operating Instructions).

Note the technical connection conditions of the power stations.

Centralised multi-service control pulses of the power stations may be noticeable by short-time flickering at low dimming positions.

Possible low humming noise of the unit is caused by the interference suppression choke.

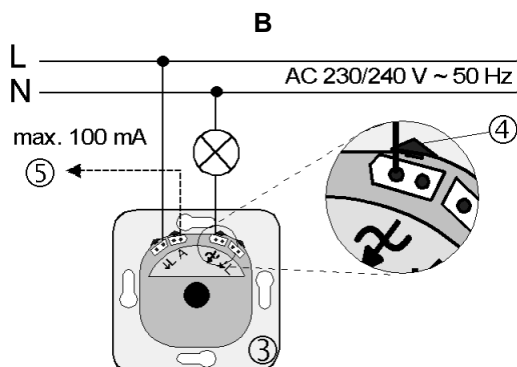
Connection - refer to Fig. B

Connect LV dimmer ③ through the spring plug-in terminals accessible from the bottom side. Insert the wire stripped for about 15 mm into the opening of the terminal without operating release clip ④.

Lift clip ④ to release the wiring from the terminals.

Connected control output 100 mA ⑤.

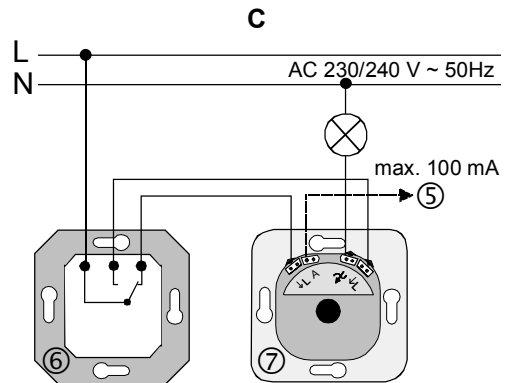
For types of load to be connected, refer to Specifications.



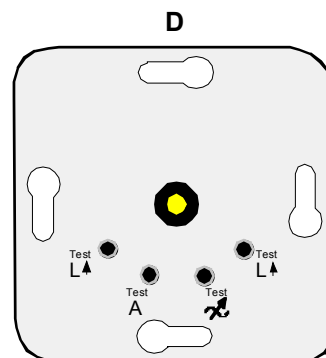
Two-way wiring installation - refer to Fig. C

Switch on/off the load by mechanical two-way switch ⑥. Adjust the brightness solely by LV dimmer ⑦.

Connected control output A max. 100 mA ⑤.



Note: The upper side of the base plate has measuring points which allow the voltages applied to be checked even without removing the dimmer (Fig. D).



Technical specifications

Rated voltage:	AC 230/240 V ~, 50 Hz	Minimum load:	20 W/VA
Connected load:		Fuse:	T 3.15 H 250, slow-blow
Order no. 0306 00		Number of LV power attachments:	10 max.
flush-mounting Type: 20 - 500 W/VA		Wiring:	double terminals 1.0 mm ² to 2.5 mm ²
Order no. 0306 00		Stripping length:	15 mm (refer to dimmer base plate)
surface-mounting Type: 20 - 450 W/VA		Two-way wiring installation:	via mechanical two-way switches Two-way wiring installation using two dimmers is not possible.
Type of loads:	230/240 V incandescent lamps mains-voltage halogen lamps dimmable conventional transformers	Basic brightness:	factory-set
Load the transformers with lamps up to at least 85 % of their rated loads. The overall load including transformer losses must not exceed the maximum power rating.		As per EN 60669-2-1 (02.97), some lighting of the lamp should be perceptible over the entire load range (at rated voltage - 10 %) when the dimmer is at dark position.	
	mixed loads of the specified types	Control output A:	mechanical contact, 100 mA max.



The symbols used to identify dimmer loads designate the type of the electrical behaviour of loads connected to dimmers: R = ohmic, L = inductive

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

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Service Center
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