

Operating Instructions Dimmer for 110 - 127 V Incandescent Lamps



1. Safety instructions



Attention:

Electrical equipment must be installed and fitted only by qualified electricians and in observance of the current accident prevention regulations.

To prevent electric shocks, the device must be safely disconnected from the mains before performing any work on the device itself or on the load (circuit-breaker cut out).

Not suitable for safe disconnection of the mains.

Do not connect any electronic lamps, e.g. switchable or dimmable compact fluorescent lamps or LED lamps. Device can be damaged. Any non-observance of the fitting instructions may cause fire or other hazards.

The basic brightness for use in 60-Hz-networks may be adjusted by qualified electricians only. Any unqualified tampering involves the risk of electric shocks.

Only tools approved for work on devices under tension may be used for this purpose.

Before performing the adjustment, it must be ensured that adjacent devices under tension (e.g. socket inserts in multiple combinations) are disconnected from the mains or – if this is not possible – protected against direct contact.

2. Function

Dimmer for incandescent lamps for switching and dimming of:

- 110 - 127 V AC incandescent lamps
- 110 - 127 V AC halogen lamps

Important:

The connection of transformers is not allowed.

Switching and dimming is obtained by depressing and by turning the control knob.

Depressing the control knob: ON – OFF

Turning the control knob: Dimming

3. Short-circuit protection

ensured by fine-wire fuse: F 4 / 250 E

In the event of malfunctions check first the fuse.

Use only original fuses.

4. Installation

The dimmer for incandescent lamps consists of the dimmer base (1) with cover and control knob (2) (see fig. A).

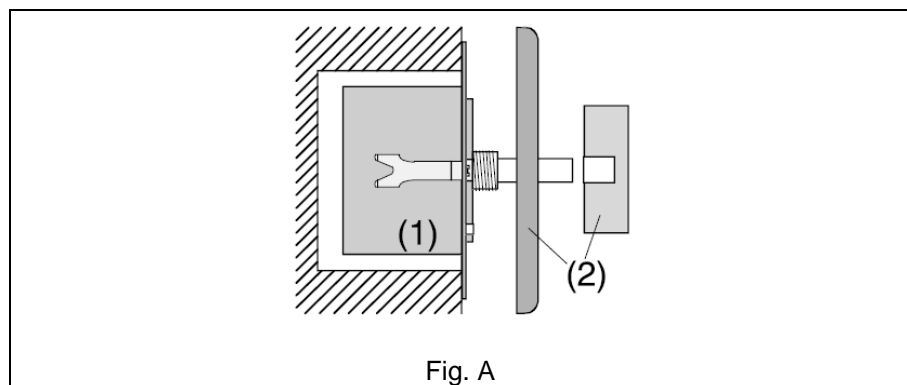


Fig. A

The dimmer (1) is installed in a flush-mounting box acc. To DIN 49073.

Important:

The overall load connected to the dimmer must not exceed 400 W.

The rated maximum load can consist of a mix of the different types of load specified.

A minimum load of 60 W is necessary to prevent flickering of the lamps connected.

Depending on the installation, the maximum rated power must be reduced by:

- 10% for every 5°C above an ambient temperature of 25°C
- 15% for incorporation into wooden, plasterboard or hollow walls
- 20% for incorporation into multiple combinations

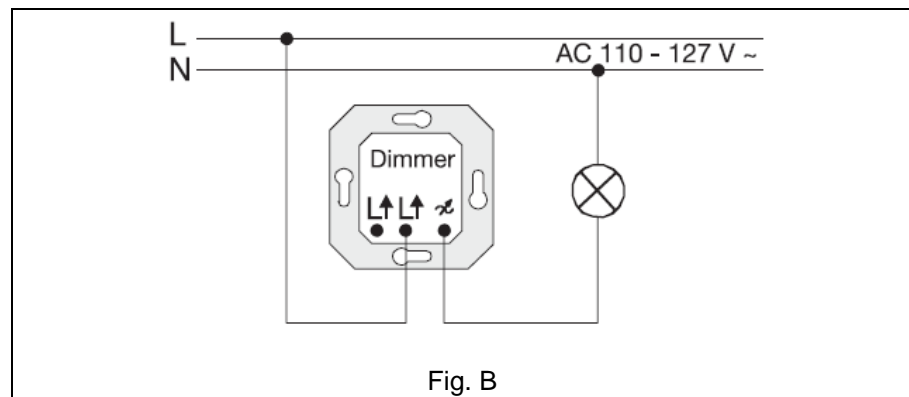
Observe the technical connection requirements of the power supply companies.

Centralized telecontrol signals from power stations may be visible as brief flickering of the lamps in low dimming positions.

The weak humming noise from the device is caused by the interference suppressor choke.

Both effects are normal and do not constitute a defect of the dimmer.

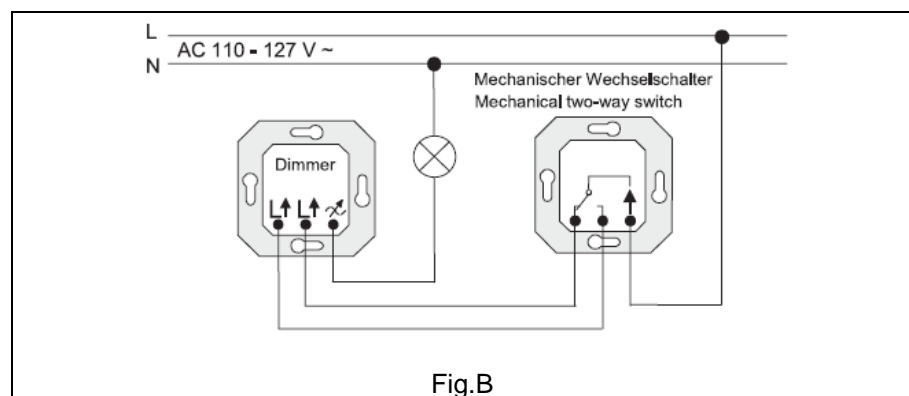
4.1. Connection



The dimmer for incandescent lamps (1) is connected by means of screw terminals accessible from below.

Rated load: see technical characteristics.

4.2. Two-way circuit



The mechanical two-way switch (2) can be used to switch the load on and off. The brightness of the lamp can only be varied at the dimmer itself (1).

4.3. Setting the basic brightness for use in 60 Hz networks

The basic brightness is set at the factory for operation in 50 Hz networks (Europe).

If the dimmer is to be used in 60 Hz networks, the basic brightness setting must be corrected by a qualified electrician.

The basic brightness must be adjusted in such a way, that a lamp switched off and a lamp turned down to minimum dimming position can be clearly distinguished.

Attention

Observe the safety instructions



1. **Disconnect the mains supply.**
2. **Connect the dimmer in acc. with the wiring diagram (see figs. B,C). Do not yet install in the flush-mounting box. Make sure all lines are properly insulated.**
3. **Switch on the mains supply.**
4. **Activate the dimmer by depressing the potentiometer shaft and then turn shaft fully counterclockwise (minimum dimming position).**
5. **Adjust potentiometer 'P' at the side of the device (see fig. D) until the lamp burns with a basic brightness that is still perfectly visible.**
6. **Disconnect the mains supply.**
7. **Fit the dimmer in the flush-mounting box.**
8. **Switch the mains supply on again.**

5. Technical specifications

Rated voltage:	110 - 127 V AC, 50/60 Hz
Connected load:	60 - 400 W
Type of loads:	110 - 127 V AC incandescent lamps 110 - 127 V AC halogen lamps mixed loads of the specified types



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

Minimum load:	60 W
Fuse:	F 4 / 250 E
Max. cross section for terminals:	2 x 2,5 mm ² or 1 x 4 mm ²
Two-way circuit:	with mechanical two-way switch Two-way circuits with 2 dimmers are not possible
Basic brightness:	factory-set for 50 Hz networks, for 60 Hz networks see 'Setting of basic brightness'

As per EN 60669-2-1 (01.2000), a faint glow of the lamp should be visible over the full load range (at rated voltage - 10 %) when the dimmer is at dark position.

6. Guarantee

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

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

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