

EUD12F

Universal dimming switch. Power MOSFET up to 300 W. Automatic lamp detection. Standby loss 0.1 watt only. With adjustable minimum brightness and dimming speed. With switching operation for children's rooms and snooze function.

Modular device for DIN EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep. Universal dimmer switch for lamps up to 300 W, depending on ventilation conditions, dimmable energy saving lamps (ESL) and dimmable 230 V LED lamps are also dependent on the lamp electronics.

Zero passage switching with soft start and soft OFF to protect lamps.

Supply voltage and switching voltage 230 V.

Short-time control commands switch on/off, permanent control varies the brightness to the maximum level.

An interruption of control changes the direction of dimming.

The setting of the brightness level is stored after switching off.

In case of a power failure the switching position and the brightness level are stored.

If applicable the dimmer will be switched on at the stored brightness level after the supply voltage is recovered.

Automatic electronic overload protection and over-temperature switch-off.

With integrated switching-off relay for the mains disconnection of switched circuits.

The control pushbutton(s) of the room are connected via low voltage control wires to the terminals T1 and T2 of the EUD12F (field-free internal DC voltage). The permanent power supply must be connected directly to a phase conductor **ahead** of the mains disconnection relay FR12-230V. Due to this, the complete function remains but the leads to the lamps is disconnected by means of the switching-off relay. A glow lamp current is not permitted.

The minimum brightness level (completely dimmed down) can be adjusted with **the upper rotary switch** % ⚙️, e.g. for dimmable energy saving lamps.

You can dim all lamp types in automatic mode.

Use the lower dimming speed rotary switch to set the dimming speed in seven steps in automatic mode.

+ESL is a convenience setting for energy saving lamps which must be switched on at high voltage for design reasons so that they can also be switched back on cold in dimmed state.

-ESL is a convenience setting for energy saving lamps which cannot be switched back on in dimmed state for design reasons.

This is why memory is switched off in this position. No inductive (wound) transformers may be used in +ESL and -ESL settings. In addition the maximum number of dimmable energy saving lamps may be lower than in automatic mode for design reasons.

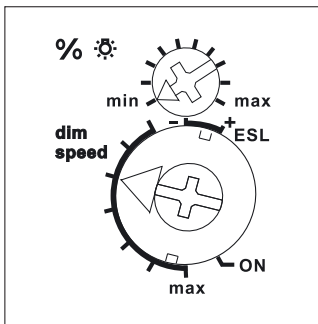
With special switching operation for children's rooms: If the light is switched on by holding down the pushbutton, it starts at the lowest brightness level after approx. 1 second and dims up slowly as long as the pushbutton is held down without modifying the last stored brightness level.

Snooze function: With a double impulse the lighting is dimmed down from the current dimming position to the minimum brightness level and switched off. The current dimming position as well as the adjustable minimum brightness level determine the dimming time (max. = 60 minutes) which can be reduced as required. It can be switched off at any time by short-time control commands during the lighting is dimmed down. Holding down the pushbutton during the dimming down process dims up and stops the snooze function.

Mixing of L loads (inductive loads, e.g. wound transformers) and C loads (capacitive loads, e.g. electronic transformers) is not permitted. R loads (ohmic loads, e.g. 230 V incandescent lamps and halogen lamps) may be added anytime.

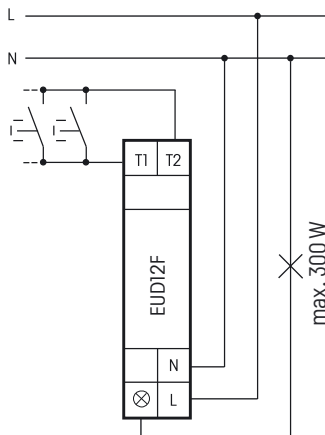
Mixing of L loads and C loads is possible with the dimmer switch **EUD12D** (page 9-4) in connection with capacity enhancer **LUD12** (page 9-7).

Function rotary switches



Standard setting ex works.

Typical connection



Technical data page 9-24.
Housing for operating instructions GBA14,
see accessoires, chapter Z.

EUD12F	Power MOSFET 300 W and switching-off relay	EAN 4010312108086	71,10 €/pc.
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