

# Universal dimmer switch for mains disconnection switching EUD12F

Power MOSFET 300W. Standby loss 0.1 watt only.

Modular device for DIN EN 50022 rail mounting.  
1 module = 18mm wide, 58mm deep.

Dimmer switch for R, L and C loads up to 500W.  
Automatic detection of load R+L or R+C.

Supply voltage and switching voltage 230V.

**With integrated switching-off relay for the mains disconnection of switched circuits.** The control push-button(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.

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

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

A interruption of control changes the direction of dimming. The setting of the brightness level is stored after switching off.

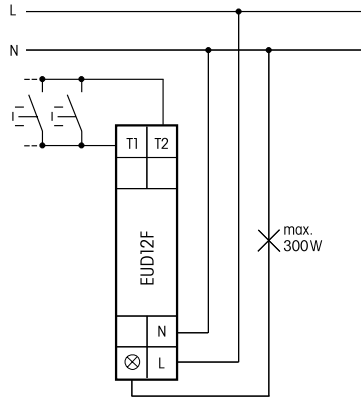
In case of a power failure the system is disconnected in a definite sequence.

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

With switching operation for children's rooms: If the light is switched on by holding down the push-button, it starts at the lowest brightness level after approx. 1 second and it is dimmed up slowly without modifying the last stored brightness level.

Snooze function: With a double impulse the lighting is dimmed down from the current dimming position and finally switched off. The current dimming position determines 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 push-button during the dimming down process dims up and stops the snooze function.

## Typical connection



## Technical data

Incandescent and halogen lamps 230V (R)	300 W <sup>1)</sup>
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Inductive transformers (L)	300 W <sup>1)2)3)</sup>
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Electronic transformers (C)	300 W <sup>1)2)3)</sup>
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Max./min. temperature at mounting location	+50°C/-20°C <sup>4)</sup>
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Standby loss (activ power)	0.1 W
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- 1) At a load of more than 110W ventilation clearance of ½ module to adjacent devices must be maintained.
- 2) Per dimmer it is only allowed to use max. 2 inductive (wound) transformers of the same type, furthermore no-load operation on the secondary part is not permitted. The dimmer might be destroyed. Therefore do not permit load breaking on the secondary part. Operation in parallel of inductive (wound) and capacitive (electronic) transformers is not permitted!
- 3) **When calculating the load a loss of 20% for inductive (wound) transformers and a loss of 5% for capacitive (electronic) transformers must be considered in addition to the lamp load.**
- 4) Affects the max. switching capacity.



The strain relief clamps of the terminals must be closed, that means the screws must be tightened for testing the function of the device. The terminals are open ex works.

## Warning!

**Only a trained electrician may install this equipment, otherwise there is a risk of fire or electric shock.**