

Capacity enhancer LUD12-230V

for universal dimmer switches

Power MOSFET up to 400 W, ESL up to 100 W and 230 V LED up to 100 W.
Standby loss 0.1 watt only.

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep.

Capacity enhancers LUD12-230V can be connected to the universal dimmer switches EUD12Z, EUD12D, SUD12 (1-10V input) and FUD12/800W. By this the switching capacity for **one lamp** will be increased according to the below mentioned table depending on ventilation conditions up to 400, 350 or 300 W or **alternatively for additional lamps** up to 400 W per each capacity enhancer.

Both switching modes for increase of capacity can be executed simultaneously.

Automatic detection of load R+L or R+C in the circuit "Increase of capacity with **additional lamps**".

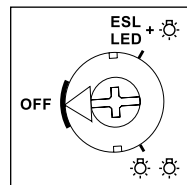
Supply voltage 230 V.



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

In the mode "Increase of capacity with additional lamps" the kind of load of a capacity enhancer LUD12-230V can vary from the kind of load of the universal impulse dimmer switch.

Therefore it is possible to mix L-loads and C-loads.

Function rotary switch



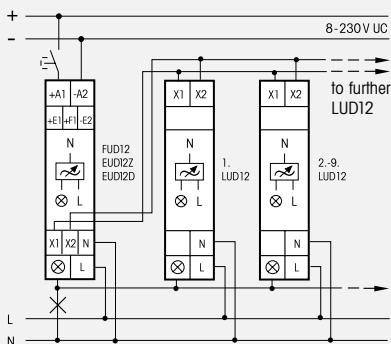
The switching mode "one lamp" () or "additional lamps" () is set with a rotary switch on the front.

This setting must be same as the actual installation, otherwise there is a risk of destruction of the electronics.

For different setting on ESL and 230 V LED lamps, see "Increase of capacity for dimmable energy saving lamps ESL and dimmable 230 V LED lamps".

Increase of capacity for one lamp

- not ESL and LED



EUD12Z and EUD12D:

1. LUD12 + 400 W
- 2.-5. LUD12 + 350 W each
- 6.-9. LUD12 + 300 W each

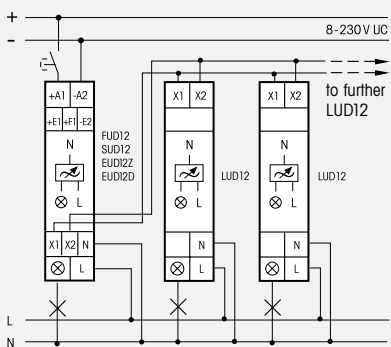
FUD12/800W:

- 1.-4. LUD12 + 350 W each
- 5.-8. LUD12 + 300 W each

For the FUD12/800W see the different connection example as per the operating instructions!

Increase of capacity with additional lamps

() - not ESL and LED



EUD12Z, EUD12D and SUD12:

- 1.-7. LUD12 + 400 W each
8. LUD12 + 200 W

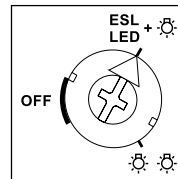
FUD12/800W:

- 1.-6. LUD12 + 400 W each
7. LUD12 + 200 W

Please refer to the deviations in connection examples for SUD12 and FUD12/800W in the operating instructions!

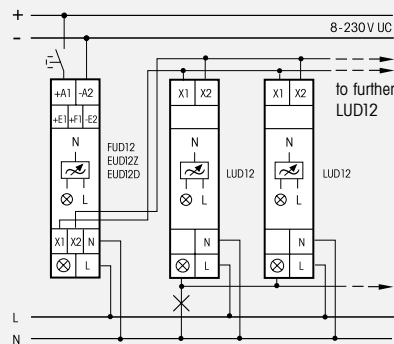
Increase of capacity for dimmable energy saving lamps ESL and dimmable 230V LED lamps

Function rotary switch



This setting must be made on the front panel on ESL and 230 V LED lamps, also with power increase with additional lamps. **Otherwise there is a risk of destruction of the electronics.**

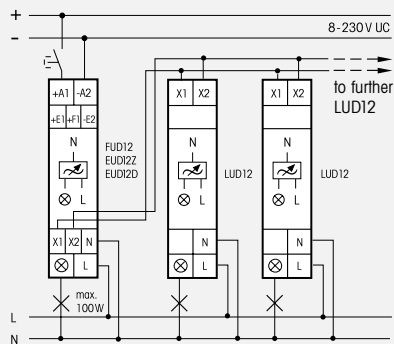
Increase of capacity for one lamp, ESL and 230V LED



- 1.-9. LUD + 100 W each

For the FUD12/800W see the different connection example as per the operating instructions!

Increase of capacity with additional lamps, ESL and 230 V LED



- 1.-9. LUD + je 100W

For the FUD12/800W see the different connection example as per the operating instructions!

Technical data

Incandescent and halogen lamps 230V (R) up to 400 W ¹⁾

Inductive transformers (L) up to 400 W ¹⁾²⁾³⁾

Electronic transformers (C) up to 400 W ¹⁾²⁾³⁾

Dimmable energy saving lamps ESL up to 100 W

Dimmable LEDs up to 100 W

Max./min. temperature at mounting location +50°C/-20°C ⁴⁾

Standby loss (activ power) 0.1W

¹⁾ At a load of more than 200 W a ventilation clearance of 1/2 module to adjacent devices must be maintained.

²⁾ Per dimmer or capacity enhancer 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.

Important Note!

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock.