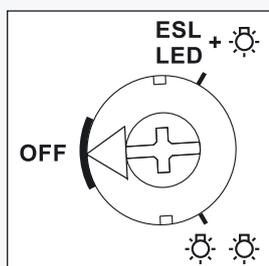


LUD12-230V



Function rotary switch



Standard setting ex works.

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.

Alternative setting for ESL and 230V LED when the universal dimmer switch is operated in the ESL or LED comfort settings. See page 13-8.

Capacity enhancer for universal dimmer switches and dimmer switches for PWM activation. Power MOSFET up to 400W. 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 EUD12D, SUD12 (1-10V input) and the multifunction time relay MFZ12PMD. By this the switching capacity for **one lamp** will be increased up to 200W or **alternatively for additional lamps** up to 400W per each capacity enhancer.

Dimmable energy saving lamps and dimmable 230V LED lamps are also dependent on the lamp electronics.

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

Automatic lamp detection in the "Capacity increase **with additional lamps**" setting.

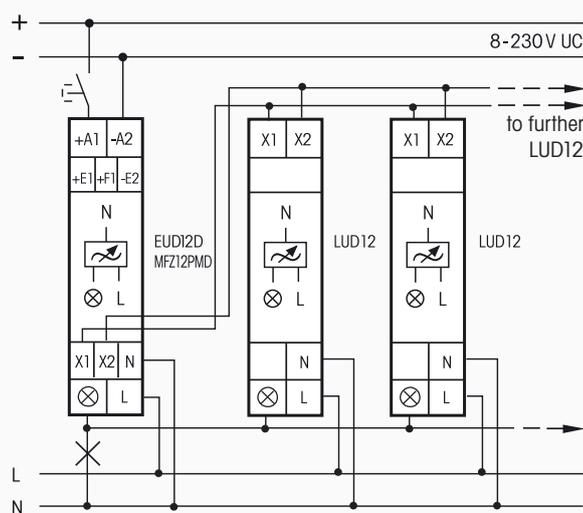
Supply voltage 230V.

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.

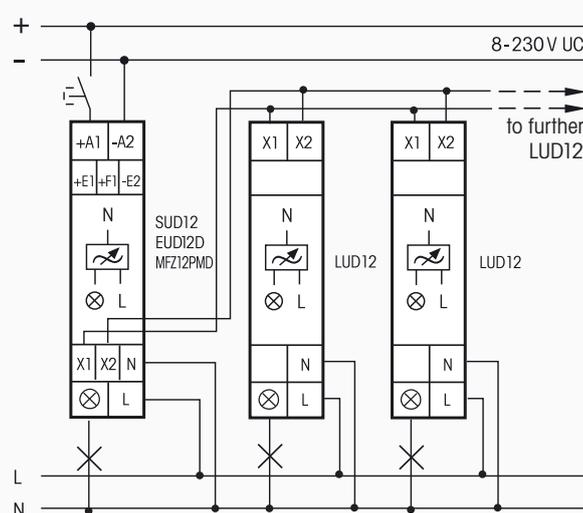
Increase of capacity for one lamp (⊗), ESL and LED see next page



EUD12D and MFZ12PMD:

1.-9. LUD12 + up to 200W each

Increase of capacity with additional lamps (⊗ ⊗), ESL and LED see next page



EUD12D, SUD12 and MFZ12PMD:

1.-8. LUD12 + up to 400W

Technical data page 9-27.
Housing for operating instructions GBA12,
see accessories, chapter Z.

LUD12-230V

Power MOSFET up to 400W

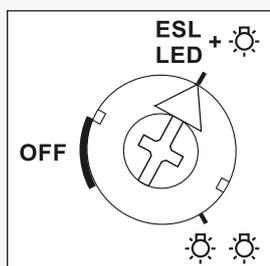
EAN 4010312107867

62,20 €/pc.

Recommended retail prices excluding VAT.

Capacity increase with capacity enhancer LUD12 for ESL dimmable energy saving lamps and dimmable 230V LED lamps in the ESL and LED comfort settings.

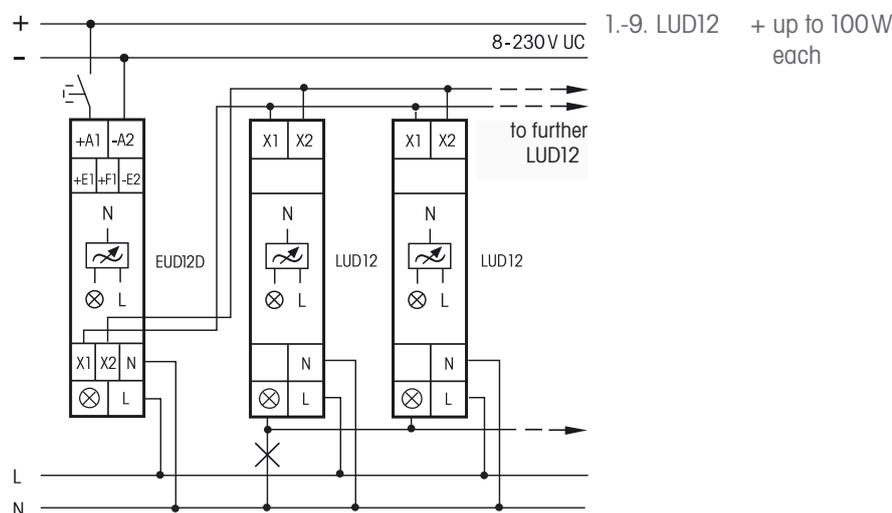
Function rotary switch



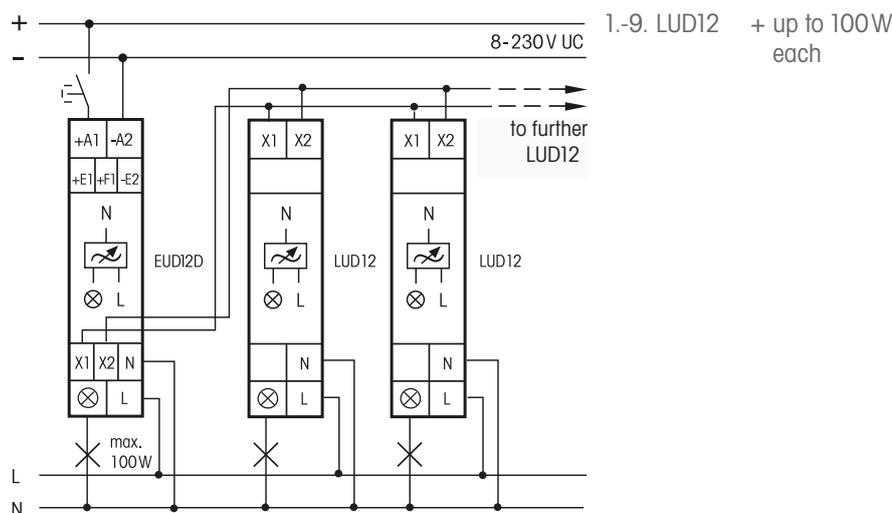
This setting must be made on the front panel of ESL and 230V LED lamps if the universal dimmer switch is operated in the ESL or LED comfort settings. Also for capacity increase with additional lamps.

Otherwise there is a risk of destruction of the electronics.

Increase of capacity for one lamp

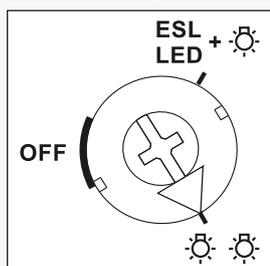


Increase of capacity with additional lamps



LUD12 universal dimmer switch for PWM activation

Function rotary switch



In switching type "additional lamps" (ESL + LED) the LUD12 can also be operated as an independent universal dimmer switch.

Activation takes place at X1/X2 by means of a PWM signal, e.g. from a PLC. The output voltage is adjusted from 0-100% depending on the duty cycle.

The activation terminals X1/X2 in the LUD12 are isolated from the mains voltage by an optocoupler.

Automatic load detection, electronic overload protection and overtemperature shutdown are active and independent from activation.

Parameters for PWM activation:

- Frequency: 100Hz
- Duty cycle: 0 (= OFF) linear up to 90% (= full output voltage).
- Level: 10-24 volts (e.g. PLC output)
- Activation current: 1 mA (10V) to 3mA (24V)
- Connection polarity: X1 = +, X2 = - (GND), polarity reversal protection
- Isolation: by optocoupler