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61 100 830 - **3**

Eltako ELECTRONICS

Universal dimmer switch EUD61NP-230V

CE

Without N connection, POWER MOSFET 400W. Standby loss 0.5 watt only. With control inputs for pushbutton light switches and light switches. With adjustable minimum brightness and dimming speed.

For installation.

45 mm long, 55 mm wide, 18 mm deep.

Universal dimmer switch for R, L and C loads up to 400 watt, depending on ventilation conditions. Automatic detection of load R+L or R+C.

Energy saving lamps ESL and 230V LED lamps cannot be controlled by the dimmer type EUD61NP-230V (without N-connection).

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

Control voltage 230V. Min. load 20W only.

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

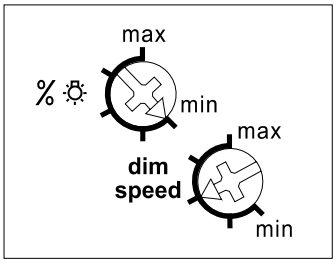
An interruption of control changes the direction of dimming.

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.

Function rotary switches



The minimum brightness level (completely dimmed down) can be adjusted **with the upper rotary switch %☼.**

The dimming speed can be adjusted with the **lower dimming speed rotary switch**. Simultaneously the soft on and soft off period is changed.

If light switches cannot be replaced by pushbutton light switches, there is a separate control input for light switches. If the switch is opened briefly after closing, the light is dimmed until the next time it is opened again briefly. The dimming direction changes automatically at both peaks. The dimming direction can also be changed by opening the switch briefly twice.

Switching operation for children's rooms (only if controlled by pushbutton light switch): 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.

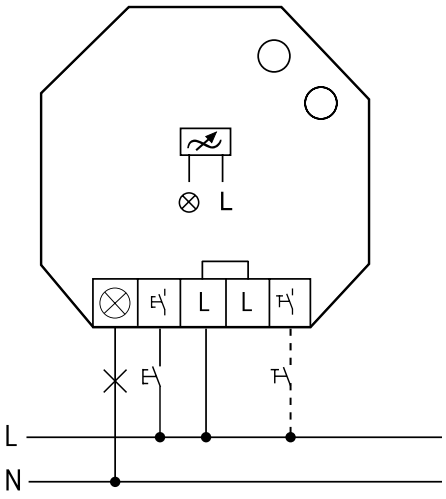
Snooze function (only if controlled by pushbutton light switch): With a double impulse the lighting is dimmed down from the current dimming position to the minimum brightness level and switched off. The current dimming position as well as the adjustable minimum brightness level determine the dimming 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 push-button during the dimming down process dims up and stops the snooze function.

Without N connection, therefore suitable for mounting directly behind the pushbutton light switch or light switch, even if no N wire is available.

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. 230V incandescent-lamps and halogen lamps) may be added anytime.

Mixing of L loads and C loads is possible with dimmer switches **EUD12Z** and **EUD12D** in connection with capacity enhancer **LUD12**.

Typical connection



Control by pushbutton switches or lightswitch.

Tecnical data

Incandescent and halogen lamps 230V (R)	up to 400W [1]
Inductive transformers (L)	up to 400W [1)2)3)]
Electronic transformers (C)	up to 400W [1)2)3)]
Max./min. temperature at mounting location	+50°C/-20°C [4]
Standby loss (activ power)	0.5W

[1] The switching capacity depends on the ventilation conditions.

[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 capacative (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.

Important Note!

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

04/2011 Subject to change without notice.