GB

61 100 903 - **2**

Eltako ELECTRONICS

Multifunction universal dimmer switch EUD61M-UC

CE

Power MOSFET up to 400 W. Energy saving lamps ESL up to 100 W. Standby loss 0.1 watt only. With adjustable minimum brightness. With switching operation for children's rooms and snooze function.

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

Universal dimmer switch for R, L and C loads up to 400 watts, depending on ventilation conditions. Dimmable energy saving lamps ESL up to 100 watts. Automatic detection of load R+L oder R+C. ESL is manually settable.

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

Universal control voltage input 8 to 230 V UC, electrically isolated from the 230 V supply voltage and switching voltage.

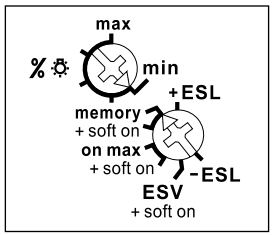
Short-time control commands switch on/off, permanent control varies the brightness to the maximum level.

An interruption of control changes the direction of dimming. The brightness level is stored after switching off in case the **function memory** is set. If the **function on max** is set, it always switches on at the maximum brightness level.

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 top rotary switch %☼** e.g. for dimmable energy saving lamps.

The bottom function rotary switch selects 7 different functions.

Setting of function ESV same as 'memory+soft on' with setting of a release delay up to 90 minutes with the rotary switch **%☼** if the manual off command is not given. Before time-out switch-off early warning function by dimming down within 1 minute.

The settings +ESL and -ESL consider the special conditions regarding dimmable energy saving lamps: The starting operation is optimized and adapted to the dimming curve. In these settings the special switching operation for children's rooms is not possible and no wound (inductive) transformer must be dimmed. In position -ESL Memory is switched off.
This can be of advantage for energy saving lamps because cold energy saving lamps require a higher minimum brightness as it will possibly be stored in Memory for warmer energy saving lamps.

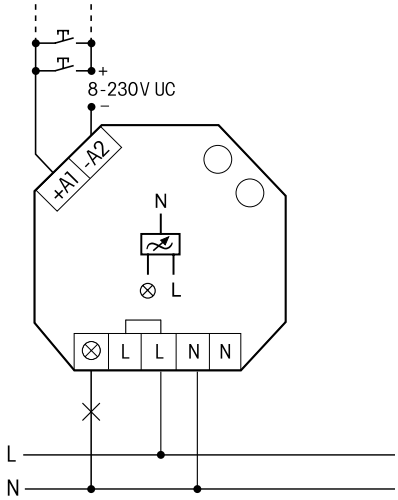
Switching operation for children's rooms: If the light is switched on by holding down the push-button, it starts at the lowest brightness level after approx. 1 second and dims up slowly as long as the pushbutton is held down without modifying the last stored brightness level.

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 push-button 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 dimmer switches **EUD12Z** and **EUD12D** in connection with capacity enhancer **LUD12**.

Typical connection



Tecnical data

Incandescent and halogen lamps 230 V (R-loads)	up to 400 W [1]
Inductive transformer (L)	up to 400 W [1) 2) 3)]
Electronic transformer (C)	up to 400 W [1) 2) 3)]
Dimmable energy saving lamps ESL [5]	up to 100 W
Max.min temperature at mounting location	+50 °C/-20 °C [4]
Standby loss (activ power)	0.1 W

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.

5) In the settings ESL no wound (inductive) transformer must be dimmed.

Important Note!

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

11/2010 Subject to change without notice.