GB

Eltako ELECTRONICS

Multifunction universal dimmer switch EUD12M-8..230V UC

CE

The dimmer switch for R, L and C loads up to 500W. Automatic detection of load R+L or R+C. **Up to 3600W with capacity enhancers LUD12-230V** at the terminals X1 and X2.

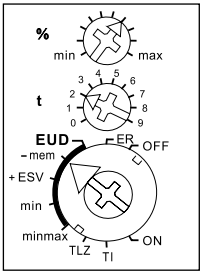
Universal voltage control input local 8 to 230V UC and additionally universal voltage control inputs 8 to 230V UC central ON and central OFF. The control inputs are electrically isolated from the supply and switching voltage 230V.

Contact position indication with LED below the upper rotary switch. This starts blinking after 15 seconds in case of a blocked push-button, if one of the functions EUD, ESV or TLZ is set.

In case of a power failure the system is switched off in a specific sequence.

From 110V control voltage glow lamp current up to 5mA (not for ER and TI). Automatic electronic overload protection and over-temperature switch-off.

Function rotary switches



OFF: Permanent OFF

EUD: Universal dimmer switch. The **dimm speed t** and the **minimum brightness level %min/max** can be adjusted. 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.

Special switching operation for children's rooms: If the light is switched on by holding down the push-button, it starts at the adjusted minimum 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 to the minimum brightness level and switched off. The current dimming position as well as the adjusted minimum brightness level determine the dimming time (max.=60 minutes), which can be reduced as required. The dimming process can be stopped anytime by a new operation of the push-button.

-mem: Same as the setting EUD, but the adjustment of the brightness level is not stored after switching off. It will always be switched on with the maximum brightness level.

+ESV: Same as the setting EUD. In addition with adjustment of the off delay t up to 90 minutes, if the manual OFF command has not been given. The switch off early warning function before time out can be adjusted by dimming down with %min/max from 0 to 3 minutes.The dimm speed is preset with a medium value. The brightness level is preset with the minimum value.

min: Universal dimmer switch. When applying the control voltage it will be switched on at the minimum brightness level, which is set with % min/max. Afterwards will be dimmed up in the dimming time t (max. = 90 minutes) up to the maximum level. If the control voltage is removed it will be switched off instantly, also during the dimming time.

minmax: Function same as the setting min, but when the control voltage is removed it will be dimmed down to the adjusted minimum brightness level. After that will be switched off.

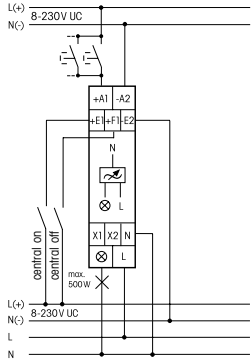
ER: Switching relay. Adjustment of soft start and soft OFF with the rotary switch t. Adjustment of the dimming level % min/max between the minimum and maximum brightness level.

TLZ: Staircase time switch, with switch off early warning function through dimming which can be switched on. With incrementing (the time can be extended) and permanent light by push-button. Variable time range settable from 1 to 9 minutes. Early warning time up to 3 minutes with % min/max.

TI: Clock generator with adjustable cycle times t from 0.1 to 0.9 seconds. The break time can be set from -50% at %min to +100% at %max. Mid-position of %min/max: closing time = break time.

ON: Permanent ON

Typical connection



Tecnical data

Incandescent and halogen lamps 230V	up to 500W [1]
Inductive transformers (L)	up to 500W [1)2)3)]
Electronic transformers (C)	up to 500W [1)2)3)]
Max./min. temperature at mounting location	+50°C/-20°C
Control voltage range	0.9 to1.1 x rated voltage
Standby loss (activ power)	0,1 W

1) At a load of more than 300W 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.**

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.