

Universal dimmer switch EUD12Z-8..230V UC for central control

The dimmer switch for R, L and C loads up to 500W. Automatic detection of load R+L or R+C.

The EUD12Z cannot switch energy saving lamps ESL because no minimum brightness level can be set.

Up to 3600W with capacity enhancers LUD12-230V at the terminals X1 and X2.

Local universal control voltage input from 8 to 230V UC. In addition universal control voltage inputs 8 to 230V UC central ON and central OFF. The control inputs are electrically isolated from the supply voltage and switching voltage 230V.

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

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.

Glow lamp current 5 mA starting at 110V (not for priorities 4 and 8).

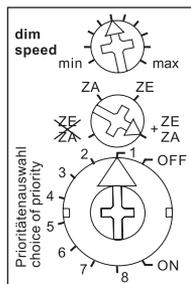
Automatic electronic overload protection and over-temperature switch-off.

The LED below the upper rotary switch on the front indicates a local or central control. During local control it starts blinking after 15 seconds if a push-button is inhibited.

Special 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 without modifying the last stored brightness level.

Snooze function: With a double impulse the lighting is dimmed down from the current dimming position and finally switched off. The current dimming position determines 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.

Function rotary switches



With the upper rotary switch the dimm speed can be adjusted. Contemporaneously the duration of soft On and soft Off will be changed.

With the middle rotary switch this universal dimmer switch can be operated completely or partially as central control device:

ZE+ZA = central ON and central OFF
ZE = central ON only
ZA = central OFF only
ZE+ZA = no central control

With the lower rotary switch several priorities can be adjusted. These determine which other control inputs are blocked as long as another control input is excited permanently.

Furthermore, here it will be decided if the switch position should be kept or not after a power failure:

In positions 1 to 4 of the rotary switch the switch position will be kept unchanged, in positions 5 to 8 it will be switched off. If central commands are activated they will be realised immediately hereafter.

OFF: Permanent OFF; **ON:** Permanent ON

1 and 5: No priority. Also if central control inputs are excited permanently, it is possible to operate the device by pushing a local push-button. The last central command is executed. This is the setting ex works.

2 and 6: Priority for central ON and OFF. Local push-buttons are temporarily inhibited. However, continuous excitation central OFF has priority over continuous excitation central ON.

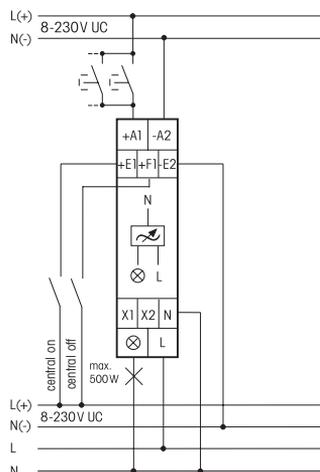
3 and 7: Priority for central ON and OFF. Local push-buttons are temporarily inhibited. However, continuous excitation central ON has priority over continuous excitation central OFF.

4 and 8: Priority for permanently excited local push-button. In the meantime central commands are not executed. In these positions a glow lamp current is not permitted.

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 EUD12M in connection with capacity enhancer LUD12.

Typical connection



Technical data

Incandescent and halogen lamps 230V (R)	up to 500 W ¹⁾
Inductive transformers (L)	up to 500 W ¹⁾²⁾³⁾
Electronic transformers (C)	up to 500 W ¹⁾²⁾³⁾
Max./min. temperature at mounting location	+50°C/-20°C ⁴⁾
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 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.

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.

Warning!

Only a trained electrician may install this equipment, otherwise there is a risk of fire or electric shock.