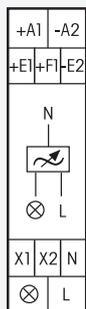


EUD12D-UC



Power MOSFET up to 400W. Energy saving lamps ESL up to 100W and LED up to 100W. Standby loss 0.3 watt only. With adjustable minimum brightness, maximum brightness and dimming speed. With switching operation for children's rooms and snooze function.

Modular device for DIN EN 60715 TH35 rail mounting. 1 module = 18mm wide, 58mm deep Universal dimmer switch for R, L and C loads up to 400 watt, depending on ventilation conditions. Dimmable energy saving lamps ESL up to 100 watt and dimmable 230V LED lamps up to 100W. Automatic detection of load R+L or R+C. ESL and LED is manually settable Up to 3400W with capacity enhancers LUD12-230V (description page B5) at the terminals X1 and X2. Universal control voltage 8 to 230V UC and additionally the universal voltage control inputs 8 to 230 V UC central ON and central OFF. The control inputs are electrically isolated from the supply voltage and switching voltage. Zero passage switching with soft start and soft OFF to protect lamps. 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. From 110V control voltage glow lamp current up to 5 mA (not for DSD). Automatic electronic overload protection and over-temperature switch-off. The functions and times are entered using the MODE and SET keys as described in the operating manual and indicated on the LC display. A keylock function is provided.

EUD = Universal dimmer switch with settings for dimming speed, minimum brightness, maximum brightness, memory and Soft ON/OFF as well as choice of priority for central control same like EUD12Z-UC. ESL and LED is settable. 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 ESL considers 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. It may be beneficial to switch off the memory on the ESL, because cold energy saving lamps require a higher minimum brightness as it will possibly be stored in Memory for warmer energy saving lamps

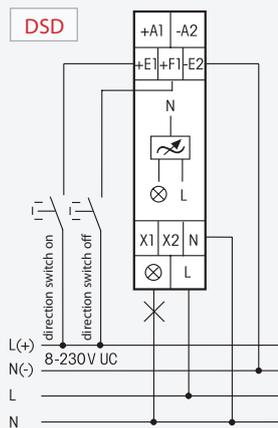
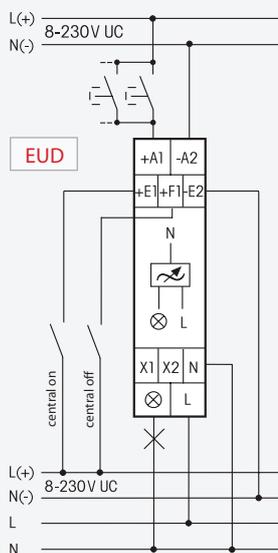
The settings LED take account of special conditions with dimmable 230V LED lamps: A number of different dimming curves are available. An updated list with dimming curve assignment for commercially available dimmable 230V LED lamps is ready for downloading at www.eltako.com/dimming_curve/LED_gb.pdf these settings no wound (inductive) transformer must be dimmed.

Switching operation for children's rooms: 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: 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 pushbutton during the dimming down process dims up and stops the snooze function.

DSD = Same as universal dimmer switch EUD but also comprising activation via two direction switches on the universal voltage control inputs 8.230V UC.

ESV = Same as universal dimmer switch EUD but also comprising setting for a time delay from 1 to 99 minutes. Switch-off early warning at the end by dimming is selectable and adjustable from 1 to 3 minutes.

Typical connections



TLZ = Staircase time switch with switchable switch-off early warning by dimming. With pump and permanent light by pushbutton. Time adjustable from 1 to 99 minutes. Switch-off early warning (no flickering) by dimming is adjustable from 1 to 3 minutes. Also for dimmable energy saving lamps ESL and 230V LED lamps MIN = Universal dimmer switch, switches when control voltage is applied to the minimum brightness setting. Maximum brightness is dimmed during the set dim time from 1 to 99 minutes. When the control voltage is interrupted, the device is switched off immediately, even during the dim time. MMX = Same function as for MIN; when the control voltage is interrupted, dimming still continues until the set minimum brightness is reached. Then the device is switched off TI = Clock with adjustable switch on/off times from 0.1 to 9.9 seconds. The maximum brightness is adjustable from 3 to 99%. ER = Switching relay with setting for Soft ON/OFF from 0.1 to 9.9 seconds. The maximum brightness is adjustable from 3 to 99%. ON = permanent ON. OFF = permanent OFF.

The dim position in % or the time lapse in minutes is indicated in the middle of the display. The expired, resettable switch-on time is indicated at the bottom of the display. Display menu guidance including language selection (German, English, French, Italian or Spanish) is described in the supplied operating manual. Also available online at www.eltako-ba.de.

Technical data page B16. Housing for operating instructions GBA12 page Z5.