



22.001.601-1, 22.002.601-1



Switching relays

**ER12-001-UC,
ER12-002-UC**

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

Temperature at mounting location:
-20°C up to +50°C.

Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.

ER12-001-UC:

1 CO contact potential free. NO contact: 16 A/250 V AC, 230 V LED lamps up to 200 W, incandescent lamp load 2000 W. NC contact: 10 A/250 V AC, 230 V LED lamps up to 200 W, incandescent lamp load 2000 W.

Safe disconnection to VDE 0106, Part 101; therefore, these devices can also be used as coupling relays.

ER12-002-UC:

2 CO contacts potential free. NO contact: 16 A/250 V AC, 230 V LED lamps up to 200 W, incandescent lamp load 2000 W. NC contact: 10 A/250 V AC, 230 V LED lamps up to 200 W, incandescent lamp load 2000 W.

No standby loss.

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

Universal control voltage 12 to 230 V UC.

Low switching noise. Contact position indicator with LED.

Integrated free-wheeling anti-surge diode (A1 = +, A2 = -).

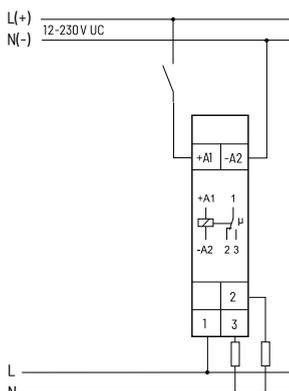
By using a bistable relay coil power loss and heating is avoided even in the on mode.

The relay contact can be open or closed when putting into operation. It will be synchronised at first operation.

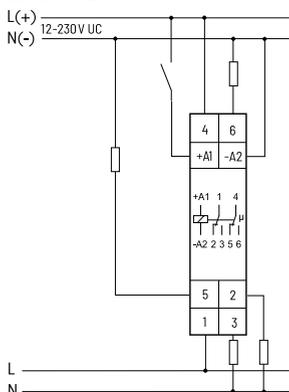
This relay is not suitable to feed back the switching voltage signal of a dimmer switch. Use only relays ESR12DDX-UC, ESR12NP-230V+UC or ESR61NP-230V+UC for this purpose.

Typical connections

ER12-001-UC



ER12-002-UC



Technical data

230 V LED lamps	up to 200 W ³⁾
	$I_{on} \leq 120 \text{ A/5 ms}$
Control voltage UC	12..230 V
Rated switching capacity	
NO contact 1/3, 4/6	16 A/250 V AC
NC contact 1/2, 4/5	10 A/250 V AC
Incandescent lamp load and halogen lamp load ¹⁾	2000 W
Fluorescent lamp load with KVG in lead-lag circuit or non compensated	1000 VA
Fluorescent lamps with KVG shunt-compensated or with EVG	500 VA
Compact fluorescent lamp with EVG and energy saving lamps	$I_{on} \leq 70 \text{ A/10 ms}^{2)}$
Standby loss (activ power)	—

- ¹⁾ For lamps with 150 W max.
- ²⁾ For electronic ballast gears a 40 fold inrush current has to be calculated. For steady loads of 1200 W use the current-limiting relay SBR12.
- ³⁾ Due to different lamp electronics and depending on the manufacturer, the maximum number of lamps may be limited, especially if the wattage of the individual lamps is very low (e.g. with 2 W LEDs).

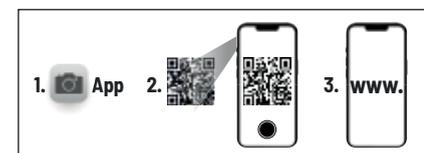


The strain relief clamps of the terminals must be closed, that means the screws must be tightened for testing the function of the device. The terminals are open ex works.

Manuals and documents in further languages:



https://eltako.com/redirect/ER12-001-UC_ER12-002-UC



Must be kept for later use!

We recommend the housing for operating instructions GBA14.

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