GB CE

22 100 002 - **2,**
22 100 003 - **1**

Eltako

Switching relay

ER12DX-UC
ER12DX/110-240V

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%.

230 V LED lamps up to 200 W (with active DX up to 600 W), incandescent lamp load 2000 W. No standby loss.

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

ER12DX-UC: Universal control voltage 12..230 V UC.

ER12DX/110-240 V: Control voltage 110-240 V AC.

Contact position indicator with LED.

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.

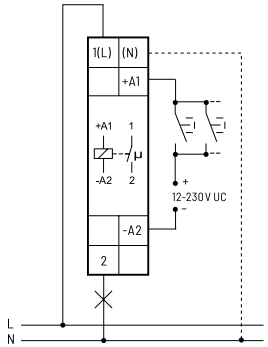
This relay is not suitable to feed back the switching voltage signal of a dimmer switch. Use only relays ESR12DDX-UC, ESR12NP-230V+UC or ESR61NP-230V+UC for this purpose.

1 NO contact potential free 16 A/250 V AC. With the ELTAKO-Duplex technology the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear. Simply connect the neutral conductor to the terminal (N) and L to 1(L) for this. This gives an standby consumption of only 0.1 Watt.

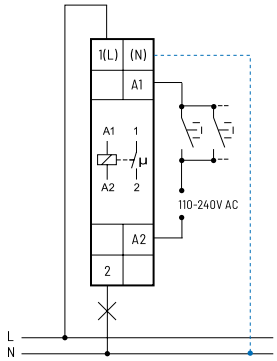
If the contact is used for controlling switching devices which do not perform zero passage switching themselves, (N) should not be connected because the additional closing delay otherwise causes the opposite effect.

Same terminal connection as electro-mechanical switching relay R12-100-.

Typical connections
ER12DX-UC



ER12DX/110-240V:



If N is connected, the zero passage switching is active.

Technical data

230 V LED lamps	up to 200 W [3]
	with active DX up to 600 W [3]
	I on ≤ 120 A/5 ms
Control voltage	
ER12DX-UC	12..230 V
ER12DX/110-240 V	110-240 V AC
Rated switching capacity	16 A/250 V AC
Incandescent lamp load and halogen lamp load [1] 230 V	2000 W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000 VA
Fluorescent lamps with KVG* shunt-compensated or wih EVG*	500 VA
Compact fluorescent lamp with EVG* and energy saving lamps	15x7 W, 10x20 W [2]
Standby loss	none

* EVG = electronic ballast units; KVG = conventional ballast units

[1] For lamps with 150W max.

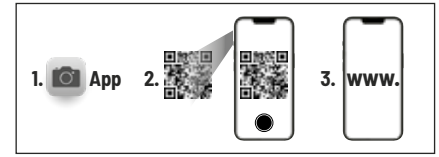
[2] For electronic ballast gears a 40fold inrush current has to be calculated. For steady loads of 1200 W use the current-limiting relay SBR12.

[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/ER12DX*110-240V_ER12DX-UC



Must be kept for later use!
We recommend the housing for operating instructions GBA14.

ELTAKO GmbH
D-70736 Fellbach
Technical Support English:
☎ +49 711 94350025
✉ technical-support@eltako.de
eltako.com

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