GB 22 200 002 - 1
22 100 002 - 1, 22 110 002 - 1

Eltako ELECTRONICS

Switching relay

CE

ER12DX-UC
ER12-200-UC,
ER12-110-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%.

Incandescent lamp load up to 2000W. No standby loss.

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

Universal control voltage 8 to 230V UC.

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.

ER12DX-:

1 NO contact potential free 16A/250V AC.

With the Eltako-Duplex technology the normally potential-free contacts can still switch in zero passage when switching 230V AC 50Hz 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 electromechanical switching relay R12-100-.

ER12-200-:

2 NO contacts potential free 16A/250V AC.

Max. current across both contacts 16A for 230V.

Same terminal connection as electromechanical switching relay R12-200-.

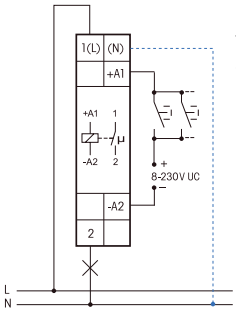
ER12-110-:

1 NO + 1 NC contact potential free 16A/250V AC.

Same terminal connection as electromechanical switching relay R12-110-.

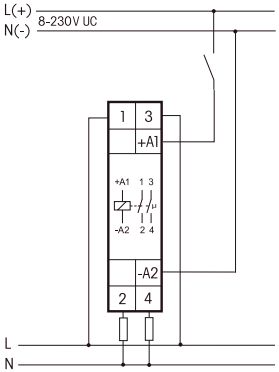
Typical connections

ER12DX



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

ER12-200/110



Technical Data

Control voltage AC	8 to 253V
Control voltage DC	10 to 230V
Rated switching capacity	16A/250V AC
Incandescent lamp load and halogen lamp load [1] 230V	2000W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000VA
Fluorescent lamps with KVG* shunt-compensated or wih EVG*	500VA
Compact fluorescent lamp with EVG* and energy saving lamps	
ER12DX	15x7W, 10x20W [2]
ER12-200/110	I on ≤ 70A/10ms [3]
Standby loss	none

[1] For lamps with 150W max.
[2] If zero passage switching is activated, otherwise same as for ER12-200/110.
[3] For electronic ballast gears a 40fold inrush current has to be calculated. For steady loads of 1200W use the current-limiting relay SBR12.
* EVG = electronic ballast units;
KVG = conventional ballast units

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.

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

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