



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:

1 change over contact potential free
16A/250V AC.
Safe disconnection to VDE 0106, Part 101;
therefore, these devices can also be used
as coupling relays.

ER12-002:

2 change over contacts potential free
16A/250V AC.
Incandescent lamp load up to 2000W.
No standby loss.
Modular device for DIN-EN 60715 TH35
rail mounting. 1 module = 18mm wide,
58mm deep.
State-of-the-art hybrid technology combi-
nes advantages of nonwearing electronic
control with high capacity of special
relays.

Universal control voltage 8 to 230V UC.
Low switching noise. Contact position
indicator with LED.
Integrated free-wheeling anti-surge diode
(A1 = +, A2 = -).

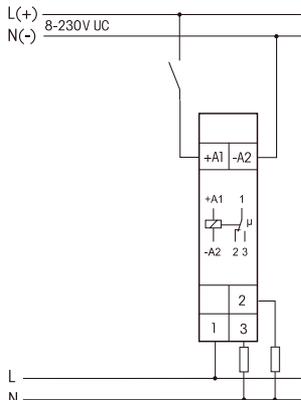
By using a bistable relay coil power loss and heating is avoided even in the on mode.

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

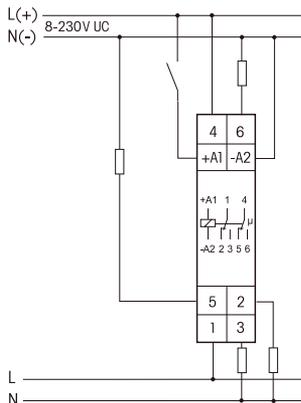
This relay is not suitable to feed back the switching voltage signal of a dimmer switch.

Use only relays ESRI2DDX-UC,
ESR12NP-230V+UC or ESR61NP-
230V+UC for this purpose.

Typical connections



ER12-001



ER12-002

Technical Data

Control voltage AC	8..253V
Control voltage DC	10..230V
Rated switching capacity	16A/250V AC
Incandescent lamp load and halogen lamp load ¹⁾	2000W 230V
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 I on ≤ 70A/ EVG and energy saving lamps	10 ms ²⁾
Standby loss (activ power)	—

¹⁾ For lamps with 150W max.
²⁾ For electronic ballast gears a 40 fold inrush current has to be calculated. For steady loads of 1200W use the current-limiting relay SBR12.



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.