



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 = -).

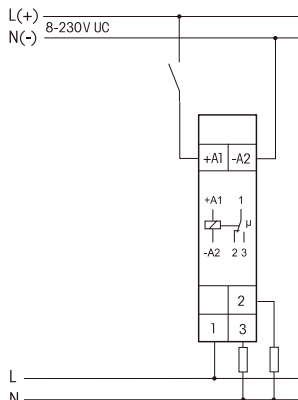
**By using a bistable relay coil power loss
and heating is avoided even in the on
mode.**

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

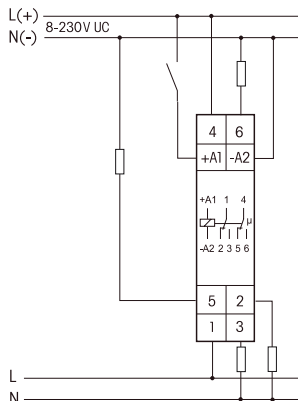
**This relay is not suitable to feed back the
switching voltage signal of a dimmer
switch.**

Use only relays ESRI2DDX-UC,
ESRI2NP-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 1000 VA in lead-lag circuit or non compensated	
Fluorescent lamps with KVG	500VA shunt-compensated or with EVG
Compact fluorescent lamp with I on ≤ 70A/ EVG and energy saving lamps	10ms 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.

Must be kept for later use!

We recommend the housing for operating
instructions GBA12.

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