GB

21 200 002 - **1**
21 100 002 - **1**, 21 110 002 - **1**

Eltako ELECTRONICS

Impulse switches CE
ES12DX-UC
ES12-200-8..230V UC
ES12-110-8..230V UC

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

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

Either universal control voltage 8 to 230V UC at the control input +A1/A2 **or** 230V with glow lamp current up to 5mA at the control input ⊕ (L)/-A2(N).
The simultaneous use of two potentials at the control inputs is not permitted.

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

ES12DX-:
1 NO contact potential free 16A/250V AC.

With the Eltako-Duplex technology (DX) 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 a 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 the electro-mechanical impulse switch S12-100-.

ES12-200-:
2 NO contacts potential free 16A/250V AC.

Maximum current across both contacts 20A for 230V.

Same terminal connection as the electro-mechanical impulse switch S12-200-.

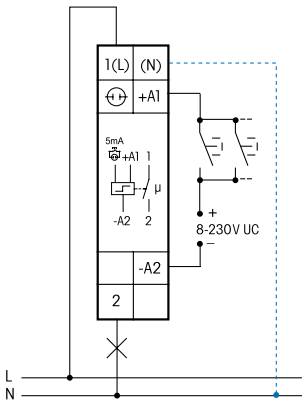
ES12-110-:
1 NO contact + 1 NC contact potential free 16A/250V AC.

Same terminal connection as the electro-mechanical impulse switch S12-110-.

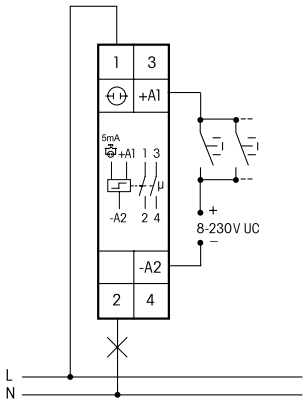
If one of these impulse switches is in a circuit, which is monitored by a FR12-230V mains disconnection relay, no additional base load is required. However, the monitoring voltage of the FR12-230V must be set to 'max'.
ES12DX: Then control only through A1-A2.

Typical connections

Either universal control voltage 8 to 230V UC

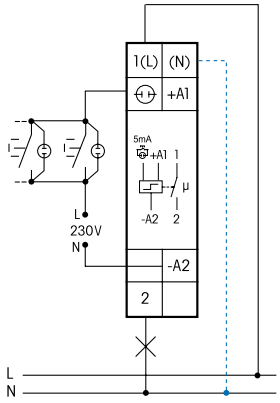


ES12DX



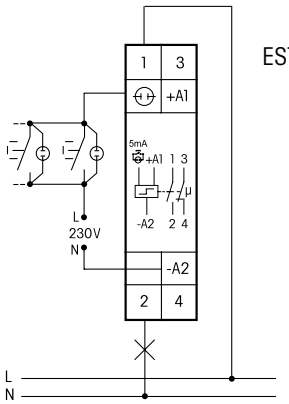
ES12-200/110

or control voltage 230V with glow lamp current up to 5mA



ES12DX

ES12DX: If N is connected, the zero passage switching is active.



ES12-200/110

Technical data

Control voltage	8 to 230V UC
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 lamps with EVG* and energy saving lamps	
ES12DX	15x7W, 10x20W [2]
ES12-200/110	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 ES12-200/110.
[3] For electronic ballast gears a 40fold inrush current has to be calculated. For steady loads of 1200W or 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.

Warning!

Only a trained electrician may install this equipment, otherwise there is a risk of fire or electric shock.

07/2009 Specifications subject to change.