

# ELECTRONIC IMPULSE SWITCH ES12DX-UC WITH PATENTED DUPLEX TECHNOLOGY AND FOR UNIVERSAL CONTROL VOLTAGE UC



## ES12DX-UC



**1 NO contact potential free 16 A/250 V AC. 230 V LED lamps up to 600 W, incandescent lamp load up to 2000 W. No standby loss.**

Modular device for DIN-EN 60715 TH35 rail mounting.

1 module = 18 mm wide, 58 mm deep.

**With the patented ELTAKO Duplex technology (DX) 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 results in 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.

**Either** universal control voltage 12 to 230 V UC at the control input +A1/A2

**or** 230 V with glow lamp current up to 5 mA at the control input  $\ominus$  (L)/-A2 (N).

The simultaneous use of two potentials at the control inputs is not permitted.

Very low switching noise.

**No permanent power supply necessary, therefore no standby loss.**

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

**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.

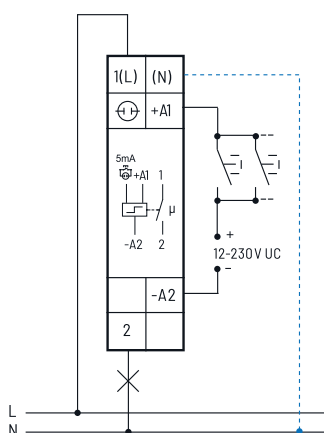
Same terminal connection as the electromechanical impulse switch S12-100-.

**If this impulse switch 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'. Control only through A1-A2.**

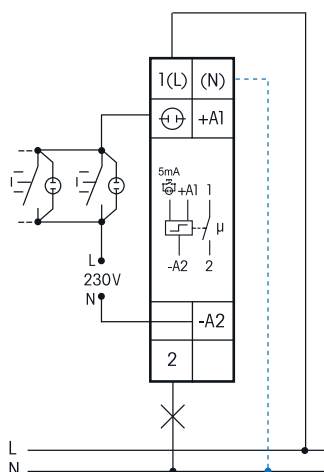
The electronics does not have an internal power supply and therefore no power is consumed in any contact position. A control current flows only during a short control impulse of 0.2 seconds. This activates the microcontroller, reads the last switching state from the non-voltage memory, switches the bistable relay to its opposite state accordingly and rewrites the new switching state to memory.

### Typical connections

**Either** universal control voltage 12 to 230 V UC



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



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



Manuals and documents in further languages:  
<https://eltako.com/redirect/ES12DX-UC>

Technical data page 11-18.  
Housing for operating instructions  
GBA14 page 1-51 chapter 1.

Recommended retail prices excluding VAT.

ES12DX-UC	Impulse switch with patented Duplex technology and universal control voltage, 1 NO contact 16 A	Art. No. 21100002	
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