Eltako ESR12NP-230V+UC Impulse Switch with Integrated Relay Function Instruction Manual

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GB CE

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Eltako

Impulse switch with integrated relay function

ESR12NP-230V+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%.

Impulse switch, which may optionally be used as switching relay (ER) or off delay impulse switch (ESV). 1 NO contact not potential free 16 A/250 V AC. 230 V LED lamps up to 600 W, incandescent lamp load up to 2300 W. Off delay impulse switch with switch-off early warning and pushbutton permanent light switchable. Standby loss 0.5 watt only.

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep. Zero passage switching to protect contacts and lamps.

State-of-the-art hybrid technology combines advantages of nonearning electronic control with high capacity of special relays. Control voltage 230 V. In addition electrically isolated universal voltage from 8 to 230 V UC. Supply voltage and switching voltage 230 V. Very low switching noise. If the function ESV is set, definitely variable off-delay time RV from 2 to 120 minutes, settable by minute scale.

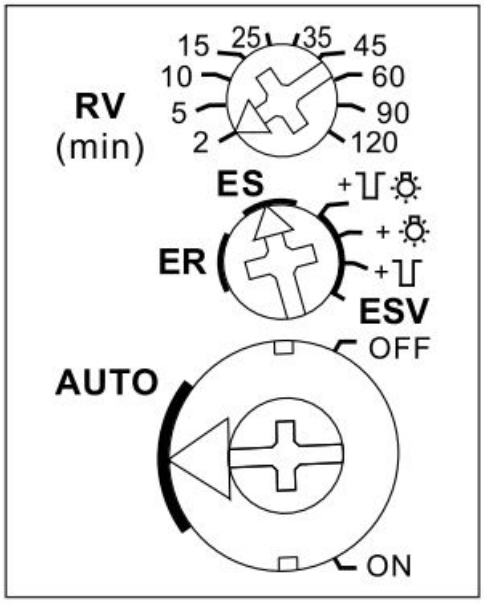
Contact position indication with two LEDs. This starts blinking in case of a blocked push-button (not if the function ER is set). Glow lamp current up to 150 mA only at the control input 230 V independent from ignition voltage (not if the function ER is set).

Relays with suitable functions to feed back the switching voltage signal of a dimmer switch. In case of a power failure the system is disconnected in a preset sequence.

The functions ES, ESV or ER are selectable by means of a rotary switch:

Contents

Function rotary switches



The functions ES, ESV or ER are selectable
by means of a rotary switch:

ES = Impulse switch

ER = Switching relay

ESV = Impulse switch with off delay. The impulse switch automatically disconnects after the set delay is timed out if a manual OFF command has not been given. Infinitely variable time range up to 120 minutes.

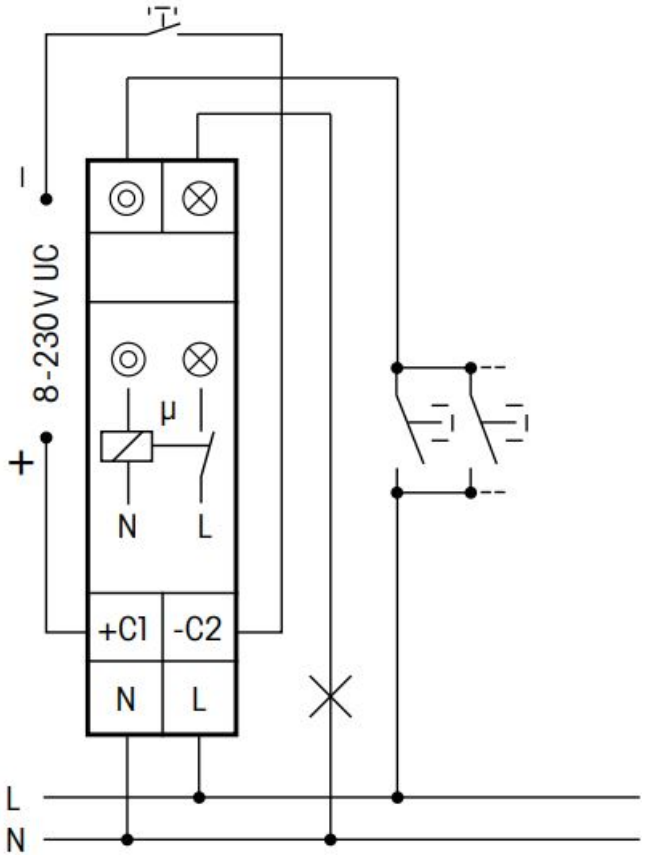
ESV + ⎍ = If switch-off early warning ⎍ is set the stairwell lighting starts flickering approx. 30 seconds before time-out at repeated shorter time intervalls. During this process reset is possible.

ESV + 💡 = If pushbutton permanent light 💡 is set permanent light can be switched on by pressing longer than 1 sec. This switches off automatically after 2 hours or by an operation longer than 2 seconds.

ESV + ⎍ 💡 = If both switch-off early warning function and permanent light by pushbutton ⎍ 💡 are set, the switch-off early warning function is activated before switching off the permanent light.

If this impulse switch with integrated relay function 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’.

Typical connection



Technical data

230 V LED lamps	up to 600 W [2)] I on ≤ 30 A/20 ms
Control voltages	230 V and 8..230 V UC
Rated switching capacity	16 A/250 V AC
Incandescent lamp and halogen lamp load [1)] 230 V	2300 W
Fluorescent lamp load with KVG* in lead-lag or non compensated	1000 VA
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500 VA
Compact fluorescent lamp with EVG* and energy saving lamps	15x7 W 10x20 W
Standby loss (activ power)	0.5 W

* EVG = electronic ballast units;
KVG = conventional ballast units

1) For lamps with 150 W max.

2) Due to different lamp electronics and depending on the manufacturer, the maximum number of lamps may be limited, especially if the wattage of the individual lamps is very low (e.g. with 2 W LEDs).

⚠ 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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42/2021 Subject to change without notice.

Documents / Resources

	**Eltako ESR12NP-230V+UC Impulse Switch with Integrated Relay Function** [pdf] Instruction Manual ESR12NP-230V UC, Impulse Switch with Integrated Relay Function, ESR12NP-230V UC Impulse Switch with Integrated Relay Function

References

- Home » Eltako