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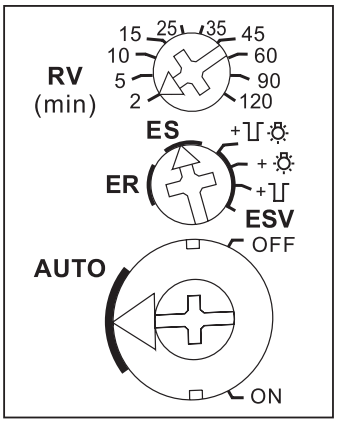
Eltako ELECTRONICS

Impulse switch with integrated relay function ESR12NP-230V+UC

CE

Impulse switch, which may optionally be used as switching relay (ER) or off delay impulse switch (ESV).
1 NO contact not potential free 16A/250V AC.
Incandescent lamp load up to 2300W.
Off delay impulse switch with switch-off early warning and push-button permanent light switchable.
Standby loss 0.5 watt only.
Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18mm wide, 58mm deep.
Zero passage switching to protect contacts and lamps.
State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.
Control voltage 230V. In addition electrically isolated universal voltage from 8 to 230V UC. Supply voltage and switching voltage 230V.
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 150mA only at the control input 230V 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.

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.

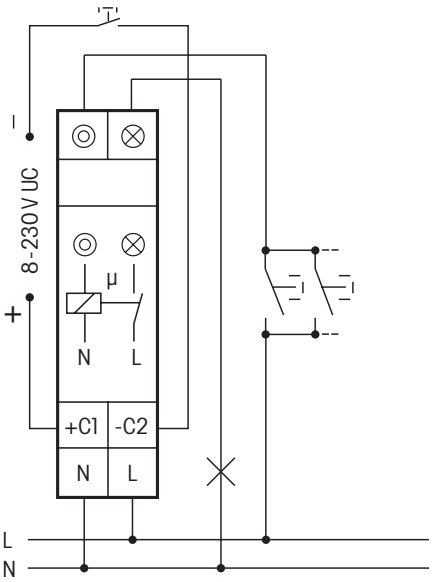
ESV + = If switch-off early warning is set the stairwell lighting starts flickering approx. 30 seconds before time-out at repeated shorter time intervalls. During this process reset is possible.

ESV + = If push-button 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 push-button 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

Control voltages	230V and 8..230V UC
Rated switching capacity	16A/250V AC
Incandescent lamp and halogen lamp load [1] 230V	2300W
Fluorescent lamp load with KVG* in lead-lag or non compensated	1000VA
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500VA
Compact fluorescent lamp with EVG* and energy saving lamps	15x7W 10x20W
Standby loss (activ power)	0.5 W

[1] For lamps with 150 W max.

* 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.

04/2010 Specifications subject to change.