



Noiseless impulse switch with integrated relay function with solid state relay

ESR61SSR-230V

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%.

Noiseless solid state relay not potential free, 400 Watt, Off delay impulse switch with switch-off early warning and push-button permanent light switchable. Standby loss 0,3 Watt only.

For installation. 45 mm long, 45 mm wide, 18 mm deep.

Supply, switching and control voltage 230V.

Zero passage switching.

In case of a power failure the system is disconnected in a preset sequence.

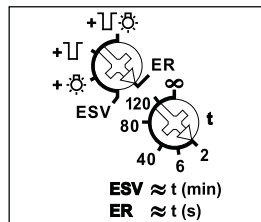
In the ER function the relay switches back on when the power is restored and the control input is active.

It is not permitted to apply a glow lamp current to the control input.

With automatic electronic overtemperature switch-off.

At a load of < 1W a GLE must be switched in parallel to the load.

Function rotary switches



Use the top rotary switch to select the required function of this impulse switch:

ER = switching relay

ESV = impulse switch. Possibly with off delay, then

+ = ESV with pushbutton permanent light

+ = ESV with switch-off early warning

+ + = ESV with pushbutton permanent light and switch-off early warning

The LED flashes when the rotary switch reaches a new setting range to assist you to find the require position with certainty.

The LED lights up permanently when the relay is switched on.

When the pushbutton permanent light is switched on , set the LED to permanent light by pressing the pushbutton for longer than 1 second. This is indicated by the LED flickering briefly. After 2 hours, the permanent light switches off automatically or it can be switched off previously by briefly pressing the pushbutton.

If the switch-off early warning is switched on, the light starts to flicker approx. 30 seconds before time-out. This is repeated three times at decreasing time intervals.

During the switch-off early warning, the light can be switched back on by briefly pressing the pushbutton.

If both switch-off early warning and pushbutton permanent light + are switched on, switch-off early warning is activated before automatic switch-off of the permanent light.

The function **ESV on the bottom rotary switch** sets the off delay from 2 to 120 minutes.

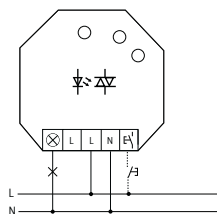
In setting ∞ normal impulse switch function ES without off delay, without pushbutton permanent light and without switch-off early warning.

In the ER function a switch-on wipe time can be set between 2 and 120 seconds.

On expiry of the wipe time the relay switches off automatically.

In setting ∞ default relay function ER without wipe time.

Typical connection



Technical data

Supply and control voltage	230V
Incandescent lamp and halogen lamp load 230V	400W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	400VA
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	400VA
Control current	1mA
Max. parallel capacitance (approx. length) of control lead	30nF (100m)
Lamp connection	
Standby loss (active power)	0.3W

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

Must be kept for later use!

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