

Multifunction impulse switch  
with integrated relay function  
ESR61M-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%.

1+1 NO contacts potential free  
10A/250V AC,  
incandescent lamps 2000W.  
No standby loss.

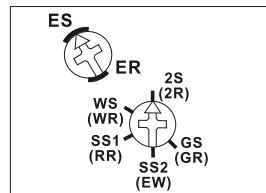
For installation. 45mm long,  
55mm wide, **32mm deep**.  
State-of-the-art hybrid technology  
combines advantages of nonwearing  
electronic control with high switching  
capacity of special relays.

Universal control voltage 8..230V UC.  
**No permanent power supply necessary,  
therefore no standby loss.**

**By using a bistable relay causing 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.

With the rotary switch ES/ER the functions  
of the second rotary switch will be pre-  
selected. The setting ER selects the  
function in brackets.

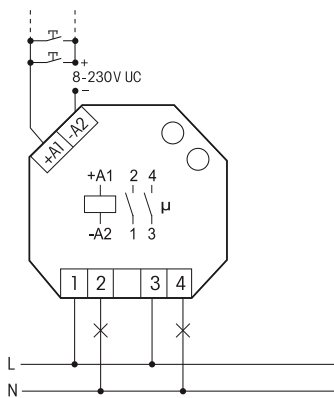
### Rotary switches



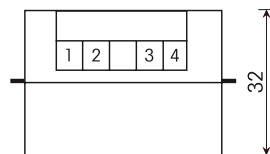
- 10 different functions are selectable:
- 2S** = Impulse switch with 2 NO contacts
  - (2R)** = Switching relay with 2 NO contacts
  - WS** = Impulse switch with 1 NO contact and 1 NC contact
  - (WR)** = Switching relay with 1 NO contact and 1 NC contact
  - SS1** = Impulse multi circuit switch  
1+1 NO contacts for switching  
sequence 0 - contact 1 (1-2) -  
contact 2 (3-4) - contacts 1 + 2
  - (RR)** = Switching relay (closed-circuit  
current relay) with 2 NC contacts
  - SS2** = Impulse multi circuit switch  
1+1 NO for switching sequence  
0 - contact 1 - contacts 1 + 2 -  
contact 2
  - (EW)** = Impulse relay for passing make  
contact with 1 NO contact and  
1 NC contact, wiping time  
1 second
  - GS** = Impulse group switch 1+1 NO  
for switching sequence 0 - con-  
tact 1 - 0 - contact 2
  - (GR)** = Group relay 1+1 NO contacts  
(relay with alternating closing  
contacts)

**This relay is not suitable to feed back the  
switching voltage signal of a dimmer  
switch. Use only relays ESR12DDX-UC,  
ESR12NP-230V+UC or ESR61NP-  
230V+UC for this purpose.**

### Typical connection



### Side view



### Technical Data

Control voltage AC	8 to 253V
Control voltage DC	10 to 230V
Rated switching capacity	10A/250V AC
Incandescent lamp load and halogen lamp load <sup>1)</sup>	2000W 230V
Fluorescent lamp load with KVG in lead-lag circuit or non compensated	1000VA
Fluorescent lamps with KVG shunt-compensated or with EVG	500VA
Compact fluorescent lamp with EVG and energy saving lamps	I <sub>on</sub> ≤ 70A/ 10 ms <sup>2)</sup>
Standby loss (activ power)	-

<sup>1)</sup> For lamps with 150 W max.

<sup>2)</sup> For electronic ballast gears a 40fold inrush  
current has to be calculated. For steady loads of  
600W use the current-limiting relay SBR61.

### For later use!

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