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Eltako ELECTRONICS

Multifunction impulse switch with integrated relay function ESR61M-UC

CE

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
10 A/250 V AC,
incandescent lamps 2000 W.
No standby loss.

For installation. 45 mm long,
55 mm wide, **32 mm deep.**

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

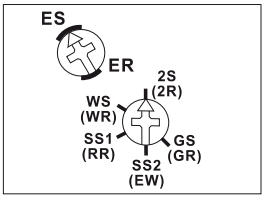
Universal control voltage 8..230 V UC.

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

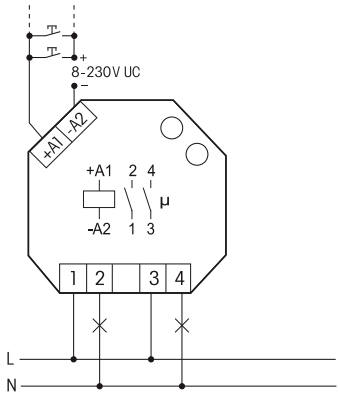
(EW) = Impulse relay for passing make contact with 1 NO contact and 1 NC contact, wiping time 1 second

GS = Impulse group switch 1+1 NO for switching sequence 0 - contact 1 - 0 - contact 2

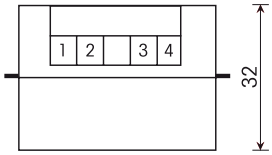
(GR) = Group relay 1+1 NO contacts (relay with alternating closing contacts)

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

Typical connection



Side view



Technical Data

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

[1] For lamps with 150 W max.

[2] For electronic ballast gears a 40fold inrush current has to be calculated. For steady loads of 600 W use the current-limiting relay SBR61.

For later use!

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10/2012 Subject to change without notice.