



EAN code  
SMR-S/230V: 8595188123518

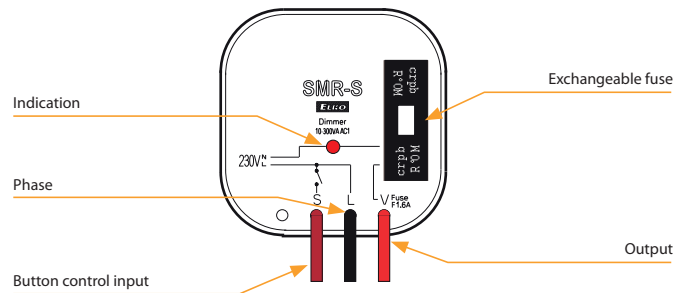
Technical parameters		SMR-S
Connection:	3-wire con., without neutral	
Voltage range:	230 V AC (50 Hz)	
Burden (unloaded):	max. 0.66 VA/0.55 W	
Max. dissipated power:	3 W	
Supply voltage tolerance:	-15 %; +10 %	
<b>Output</b>		
Contactless:	1x triac	
Resistive load:	10 - 300 VA	
Inductive load:	10 - 150 VA	
Capacitive load:	x	
<b>Control</b>		
Control voltage:	AC 230 V	
Current:	max. 3 mA	
Impulse lenght:	min. 50 ms/max. unlimited	
Glow tubes connection:	Yes	
Max. amount of glow lamps connected to controlling input:	230 V - max. amount 10 pcs (measured with glow lamp 0.68 mA/230 V AC)	
<b>Other information</b>		
Operating temperature:	0 .. +50 °C (32 .. 122 °F)	
Operating position:	any	
Mounting:	free at connecting wires	
Protection degree:	IP30 in standard conditions*	
Overvoltage category:	III.	
Pollution degree:	2	
Fuse:	F 1.6 A/250 V	
Connection wires:	solid wires 0.75 mm <sup>2</sup> (AWG 18)/90 mm (3.5 inch)	
Glow lamps in a button:	max. number 10	
Dimensions:	49 x 49 x 13 mm (1.9" x 1.9" x 0.5")	
Weight:	30 g (1.06 oz.)	
Standards:	EN 60669-1, EN 60669-2-1	

\* for more information see page 75

- Button-controlled dimmers designated for flush mounting into a wiring box.
- Possible to control from more places (parallel connections).
- Protection against temperature overrun inside the device.
- Designated for dimming el. bulbs, halogen lights and halogen lights with winding transformers and Dimmable LED<sup>1</sup>.
- 3-wire connection, functional without neutral.
- Max. load: 300 VA (el. bulbs or halogen lights with wound transformer).
- Contactless output -1x triac.
- With exchangeable fuse.

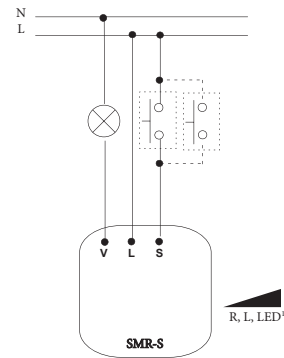
LED<sup>1</sup>: more informations on page 75

Description of SMR-S



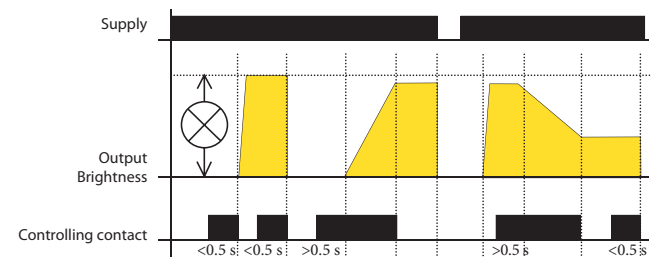
Connection

Typical connection of SMR-S - dimmer of lights



Warning: it cannot be used for fluorescent lights and energy saving lights!

Function









Short press (<0.5 s) turns a light on, another short press turns it off. A longer press (>0.5 s) causes a gradual regulation of light intensity min-max-min round until the button is released. After releasing a set intensity is kept in memory, further short presses turn the light on/off keeping the set intensity. The intensity can be changed by further long press. After de-energising the relay remembers the set value.

Type	Design	Supply voltage	Type of dimmed load						Output			Method of phase regulation			Description	Page	
			R	L	C	ESL	LED <sup>1</sup>	LED <sup>2</sup>	Output element	Rated load			Rising edge	Falling edge			Control method 0-10 V/1-10V
										R	L	C					
DIM-15	1M-DIN	AC 230 V	●	●	●	●	x	●	2x MOSFET	300 VA	300 VA	300 VA	●	●	x	Universal dimmer R, C, L, ESL, LED <sup>2</sup> , button control.	76
SMR-M	BOX	AC 230 V	●	●	●	●	x	●	2x MOSFET	160 VA	160 VA	160 VA	●	●	x	Like DIM-15, but for mounting under the push-button into the installation box (e.g. KU68).	
DIM-2	1M-DIN	AC 230 V	●	●	x	x	●	x	triac	10-500 VA*	10-250 VA	x	●	x	x	Stairway automaton with progressive illumination on/off, adjustable rise time, delay, maximum brightness. Dimmer R, L, LED <sup>1</sup> .	78
DIM-6	6M-DIN	AC 230 V	●	●	●	x	x	●	4x MOSFET	2 000 VA*	2 000 VA*	2 000 VA*	●	●	●	Universal dimmer 2kW R, C, L, LED <sup>2</sup> , power expandable, pushbutton control/0-10 V/1-10 V/ potentiometer/INELS 2 bus.	80
DIM6-3M-P	3M-DIN	AC 230 V	●	●	●	x	x	●	2x MOSFET	1 000 VA*	1 000 VA*	1 000 VA*	●	●	x	Expansion power module 1kW to DIM-6 dimmer.	81
SMR-S	MINI-BOX	AC 230 V	●	●	x	x	●	x	triac	10-300 VA*	10-150 VA	x	●	x	x	Designed for dimming bulbs, halogen lamps with wound transformer, dimmable LED <sup>1</sup> into the installation box (e.g. KU68).	79
LIC-1	1M-DIN	AC 230 V	●	●	●	●	x	●	2x MOSFET	300 VA*	300 VA*	300 VA*	●	●	x	Universal dimmer R, C, L, ESL, LED <sup>2</sup> , button control, constant light level control.	82
RFDEL-76M	6M-DIN	AC 230/ -120 V	●	●	●	●	x	●	12x MOSFET	6x 150 VA (230 V)	6x 150 VA (230 V)	6x 150 VA (230 V)	●	●	x	Load capacity 150 VA/channel (230 V version) or possibility to connect up to max. 900 VA in parallel at the expense of the number of channels. Each channel has a separate, galvanically separated input.	83

\* with load over 300 VA is necessary to ensure sufficient cooling

### Explanation of symbols

TYPE OF LOAD (symbols)	bulbs, halogen lamps	low-voltage el.bulbs 12/24V wound transformers	low-voltage el.bulbs 12/24V electronic transformers	ESL dimmable compact fluorescent lamps	Dimmable LED bulbs (triac dimmer)	Dimmable LED bulbs (dimmer with MOSFET)
						
	R	L	C	ESL	LED <sup>1</sup>	LED <sup>2</sup>

Demonstrated symbols are informative

### Explanation:



Dimmer with designated load:

R - resistive

L - inductive

C - capacitive

ESL - energy saving bulbs

LED<sup>1</sup> - dimmable LED bulbs, designed for dimmers with phase-controlled rising edge (triac dimmers)

LED<sup>2</sup> - dimmable LED bulbs designed for dimmers with phase or phase-to-phase phase control (dimmers with MOSFET).

IPxx protection - under normal conditions: normal conditions are understood as such conditions of operating an electrical device, installation and power supply network for which the entire device is designed, produced and installed. Upon these normal conditions of use and upon normal maintenance, all protective devices must be effective throughout the entire expected service life of the product.

Recommendation for mounting modular dimmers: leave a gap of min. 0.5 module (approx. 9 mm / 0.4") on side of the device to ensure better cooling of the device.