



EAN code  
 SMR-K/230V: 8595188145176  
 SMR-T/230V: 8595188129107  
 SMR-H/230V: 8595188129114  
 SMR-B/230V: 8595188135566

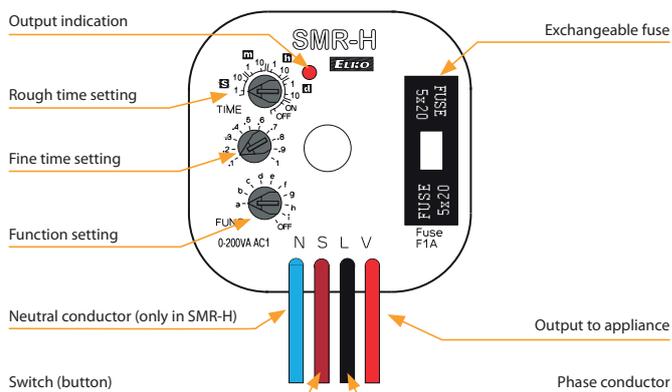
Technical parameters	SMR-K	SMR-T	SMR-H	SMR-B
Number of functions:	9		10	
Connection:	3-wire, without neutral		4-wire, with neutral	
Voltage range:	AC 230 V (50-60 Hz)			
Power input (no operation/make):	max. 0.8/3 VA		max. 1/1 VA	
Supply voltage tolerance:	-15 %; +10 %			
Time ranges:	0.1 s - 10 days			
Time setting:	via rotaty switch			
Time deviation:	10 % - mechanical setting			
Repeat accuracy:	2 % - set value stability			
Temperature coefficient:	0.1 %/°C, at = 20 °C (0.1 %/°F, at = 68 °F)			
<b>Output</b>				
Number of contacts:	1 x triac		1x NO-SPST (AgSnO <sub>2</sub> )	
Resistive load:	10 - 160 VA		16 A 125/250 V AC1	
Inductive load:	4 W		8 A 250 V AC (cos φ > 0.4)	
Mechanical life:	30.000.000 ops.			
Electrical life (AC1):	100.000 ops.			
<b>Control</b>				
Control voltage:	AC 230 V		AC 230 V, UNI 5-250V AC/DC	
Control current:	25µA		3 mA	
Impulse length:	min. 50 ms/max. unlimited			
Glow tubes connctions:	x		Yes	
Max. amount of glow lamps connected to controlling input:	x		230 V - max. amount 50 pcs (measured with glow lamp input: 0.68 mA/230 V AC)	
<b>Other information</b>				
Operating temperature:	0 to +50 °C (+32 to +122 °F)			
Operating position:	any			
Mounting:	free at connecting wires			
Protection degree:	IP 30 in standard conditions*			
Overvoltage category:	III.			
Pollution degree:	2			
Fuse:	F 1 A/250 V		x	
Connection wires (cross-section/length):	3x CY, 0.75 mm <sup>2</sup> (AWG 18) 90 mm (3.5")		4x sol. wir., 0.75 mm <sup>2</sup> (AWG 18) 90 mm (3.5")	
Glow-lamps in control button:	x		max. 10	
Dimensions:	49 x 49 x 13 mm (1.9" x 1.9" x 0.5")		49 x 49 x 21 mm (1.9" x 1.9" x 0.8")	
Weight:	27 g(0.95 oz.)		28 g(0.98 oz.)	
Standards:	EN 61812-1			

\* for more information see page 75

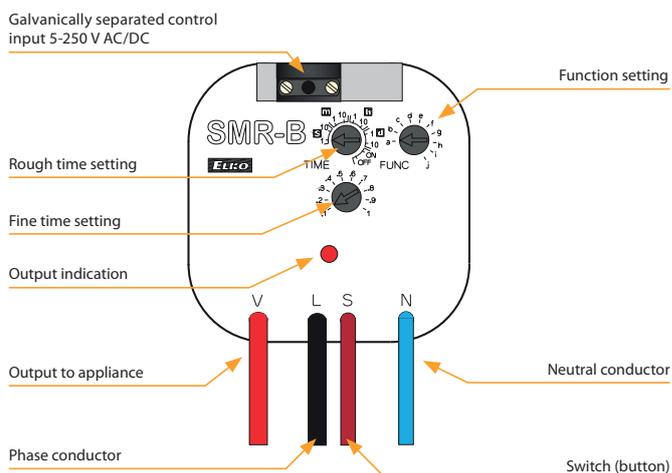
- Multifunction relay designed for installation into a wiring box or under wall-switch in an existing electrical installation.
- Advantageous and fast solution for exchanging standard wall-switch for a switch controlled by time or for an impulse relay controlled by a button.
- **SMR-K**
  - 3-wire connection, works without the connection of a neutral conductor
  - power output: 10-160 VA
  - for flawless function of the product is necessary the presence of a load R, L or C between input S and neutral wire.
- **SMR-T**
  - 3-wire connection, works without the connection of a neutral conductor
  - power output: 10 - 160 VA
  - between input S and neutral wire is possible connect any load R, L, or C - that is not necessary (unlike SMR-K).
- **SMR-H**
  - 4-wire connection
  - power output: 0 - 200 VA.
- **SMR-B**
  - 4-wire connection
  - output contact 1x 16 A/4000 VA, 250 V AC1
  - enables switching of fluorescent lights and also energy saving lights
  - independent galvanically separated input AC/DC 5 - 250 V, for example for control from a security system.

## Description

### SMR-H



### SMR-B



Function

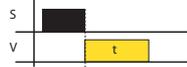
**Function a - delay off on entering edge**  
output times when it is switched. Each following pressing (max. 5x) increases time. Long pressing swithes output off



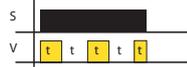
**Function b - delay off on downward edge**  
output times after button is switched off, switches immediately



**Function c - delayed return to the falling edge**  
When the button is turned off, the output closes and timed. Further presses of the button / activation of input S during the already running timing are not respected



**Function d - cycler - flasher impulsem**  
output cycles in regular interval, cycler starts with an impulse



**Function e - puls shift**  
delay on after the switch is switched on and delay on after it is switched off



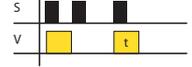
**Function f - delay on**  
delay on after switch is switched on until it is switched off



**Function g - impulse relay**  
switches on by a press, another pressing switches the output off. The length of pressing doesn't matter, it is possible to set reaction delay by a potentiometer and thus eliminate rebound of a button



**Function h - impulse relay with delay**  
one press switches on, another one switches the output off in case it is done before the end of timing



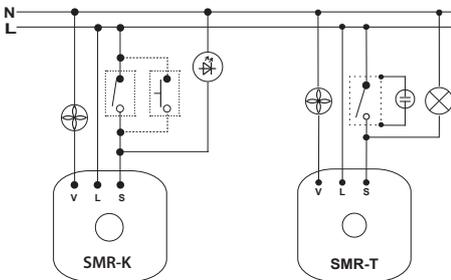
**Function i - cycler starting with pause**  
output cycles in regular intervals, cycler starts with a pause



**Function j\* - cycler starting with gap**  
delay ON until switched off until it is de-energized or a switch is pressed again.  
Note.: \*- Function j is valid only for SMR-B

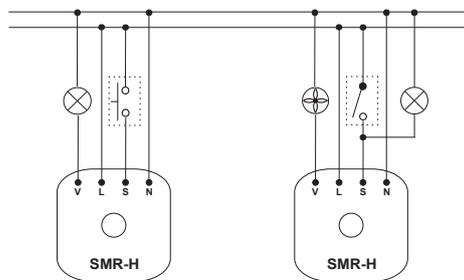


Connection SMR-K, SMR-T, SMR-H, SMR-B



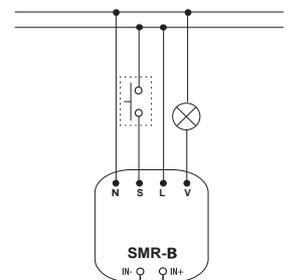
Typical wiring of SMR-K - timer for fan

SMR-T: Fan controlling depending on the lighting



Typical wiring of SMR-H - timer for lamp

Fan control depending on the lighting



Input for external control voltage AC/DC 5-250 V

Note: SMR-K, SMR-T, SMR-H are not intended for switching capacity load (energy saving bulbs and LED lights with capacity power etc.), these products are only intended for switching resistive and inductive loads (incandescent bulbs, fans, etc.). SMR-B with relay output is intended to other types of load. Using this output it is possible to switch the load of R, L or C-values listed in the load table. Between inputs S and neutral wire is possible to connect any load of R, L or C, however this is not (unlike the SMR-K) condition.

Example of connection SMR-T

