

Super-multifunction relay SMR-K, SMR-T, SMR-H, SMR-B



- SMR-B
260mm
121mm
- SMR-K
260mm
113mm
- SMR-T
- SMR-H



- 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
- More information about type and size of load for these products can be found on page 125

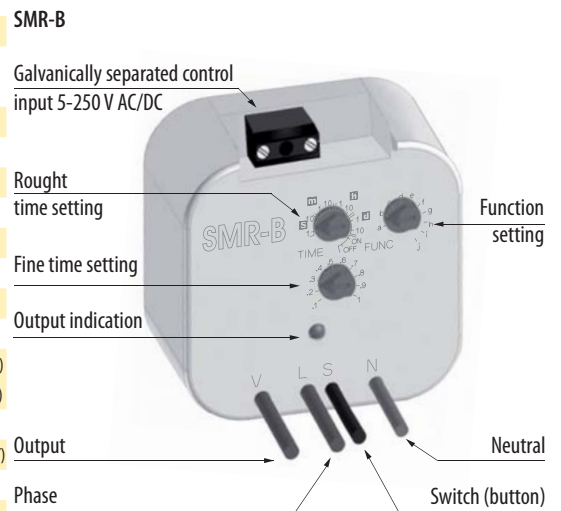
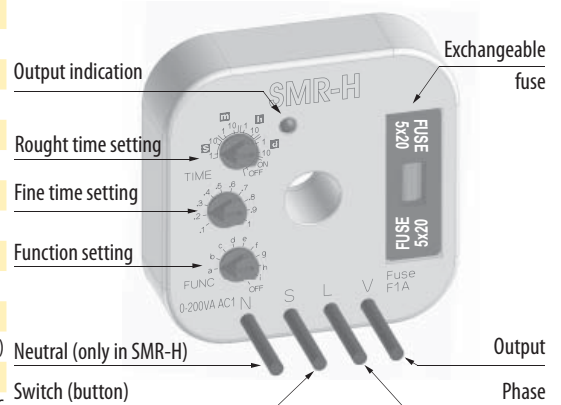
- **SMR-K**
 - 3-conductor connection, works without the connection of a neutral conductor.
 - power output: 10-160 VA
 - extra-low power input at the control input allows the connection of LED lamp and energy-saving fluorescent lamp
- **SMR-T**
 - 3-wire connection, works without the connection of a neutral conductor
 - power output: 10 - 160 VA
- **SMR-H**
 - 4-wire connection
 - power output: 0 - 200 VA
- **SMR-B**
 - 4-wire connection
 - 10 functions
 - output contact 1x16A / 4000 VA, 250V AC1
 - enables switching of fluorescent lights and also energy saving lights
 - suitable for switching loads greater than SMR-K, SMR-T, SMR-H, for example pulse relay, stair automatic switch, switching of ladder radiators in bathrooms
 - independent galvanically separated input AC/DC 5-250 V, for example for control from a security system

EAN code

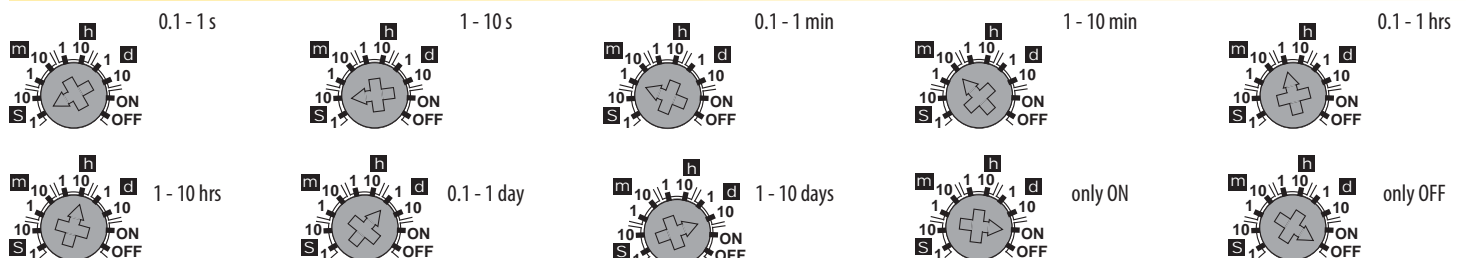
| | |
|--------------|---------------|
| SMR-K / 230V | 8595188145176 |
| SMR-T / 230V | 8595188129107 |
| SMR-H / 230V | 8595188129114 |
| SMR-B / 230V | 8595188135566 |

| 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 230V / 50-60Hz | | | |
| Power input (no operation/make): | 0.8 / 3VA | | max 1 / 1VA | |
| 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 | | | |
| Output | | | | |
| Number of contacts: | 1 x triac | | 1x NO(AgSnO ₂) | |
| Resistive load: | 10 - 160 VA | | 0 - 200 VA | 16A 125/250 V AC1 |
| Inductive load: | 10 - 100 VA | | 0 - 100 VA | 8A 250 V AC (cos φ > 0.4) |
| Control | | | | |
| Control voltage: | AC 230 V | | AC230V, UNI-5-250VAC/DC | |
| Control current: | 25µA | 3 mA | | |
| Impulse length: | min. 50ms / max. unlimited | | | |
| Glow tubes connctions: | x | Yes | | |
| Max. amount of glow lamps connected to controlling input: | 230V - max. amount 50 pcs (Measured with glow lamp 0.68mA/230V AC) | | | |
| Other information | | | | |
| Operating temperature: | 0..+50°C | | | |
| Operating position: | any | | | |
| Mounting: | free at connecting wires | | | |
| Protection degree: | IP30 in standard conditions | | | |
| Overvoltage category: | III. | | | |
| Pollution degree: | 2 | | | |
| Fuse: | F 1A / 250V | | x | |
| Connection: | 3x CY, Ø 0.75 mm ² (AWG 18) length 90mm (3.5") | 4x sol. wir., Ø 0.75 mm ² (AWG 18) length 90mm (3.5") | 2x CY, Ø 0.75mm ² (AWG 18) 2x CY, Ø 2.5 mm ² (AWG 10) | |
| Glow-lamps in control button: | x | max.10 | | max.20 |
| Dimensions: | 49 x 49 x 13 mm (1.9" x 1.9" x 0.8") | | | 49x49x21 mm (1.9" x 1.9" x 0.8") |
| Weight: | 26 g (0.92 oz.) | 26 g (0.92 oz.) | 27 g (0.95 oz.) | 53 g (1.9 oz.) |
| Standards: | EN 61812-1, EN 61010-1 | | | |

Description



Time ranges





Function

Function a - delay OFF on entering edge

output times when it is switched. Each following pressing (max. 5x) increases time. Long pressing switches output off



Function b - delay OFF on downward edge

output times after button is switched off, switches immediately



Function c - delay OFF on downward edge

after switching off output switches on and times.



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



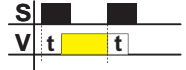
Function f - delay ON

delay on ater switch is switched on until it is switched off



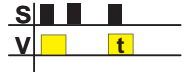
Function g - impulse relay

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



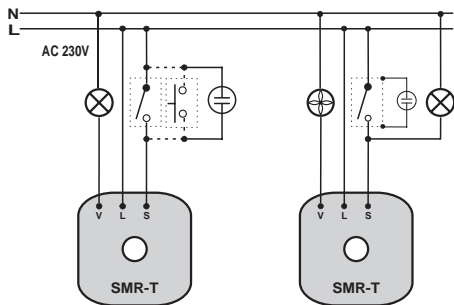
Function j* - cycler starting with gap

delay ON until switched off until it is de-energized or a switch is pressed again.



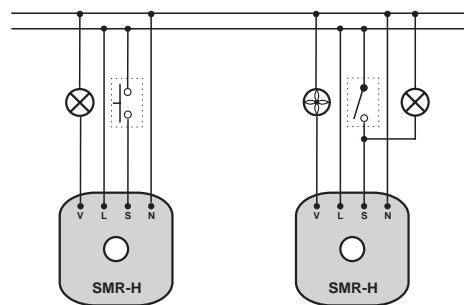
Note.: * - Function j is valid only for SMR-B

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



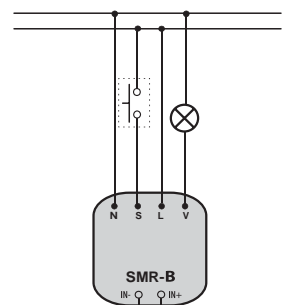
Typical wiring of SMR-K, SMR-T - timer for lamp unit

Fan control depending on the SMR-K, SMR-T lighting



Typical wiring of SMR-H - timer for lamp unit

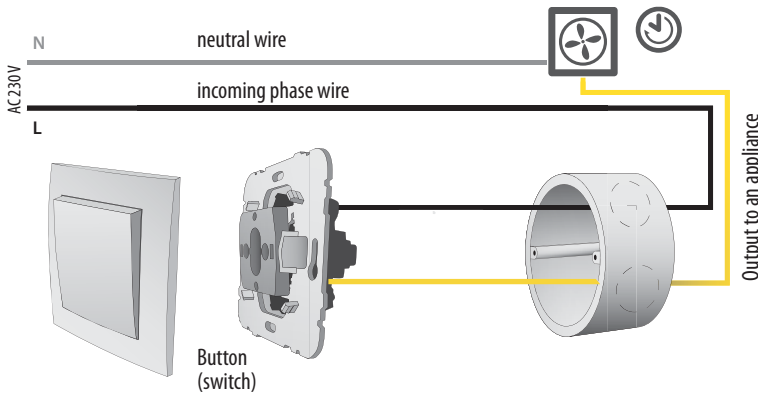
Fan control depending on the lighting



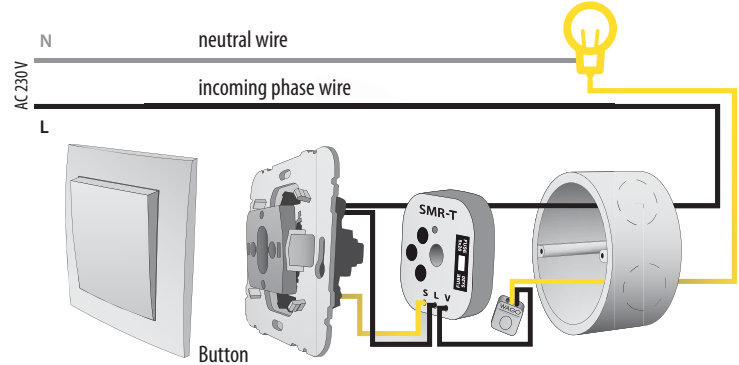
Input for external control voltage AC/DC 5-250V

Example of connection SMR-T

Original connection



Control of an appliance



After the light bulb switch is switched off, fan starts operating and after set time switches off.

