

■ Multifunction relay designed for installation into a wiring box or under wall-switch in an existing electrical installation

Description

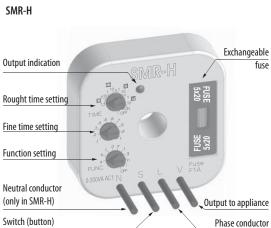
- Advantageous and fast solution for exchanging standard wall-switch for a switch controlled by time or for an impulse relay controlled by a button
- More information about type and size of load for these products can be found on page 127-128
- SMR-K
- 3-wire connection, works without the connection 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

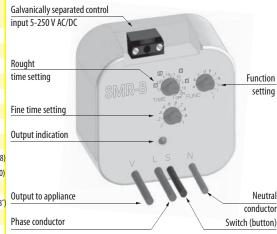
■ SMR-B

- 4-wire connection
- 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 5-250V, for example for control from a security system

SMR-B /230V: 8595188135566 **Technical parameters** SMR-K SMR-T SMR-H SMR-B Number of functions: 9 10 4-wire, with neutral Connection: 3-wire, without neutral AC 230V / 50-60Hz Voltage range: 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: $0.1 \% / ^{\circ}C$, at = 20 $^{\circ}C$ Output 1x NO(AgSnO₃) Number of contacts: 1 x triac 10 - 160 VA 16A 125/250 V AC1 0 - 200 VA Resistive load: 10 - 100 VA 0 - 100 VA 8A 250V AC ($\cos \phi > 0.4$) Inductive load: Control AC 230 V AC230V, UNI-5-250VAC/DC Control voltage: Control current: 25μΑ 3 mA Impulse length: min. 50ms / max. unlimited Glow tubes connetions: Χ Max. amount of glow lamps 230V - max. amount 50 pcs connected to controlling input: (measured with glow lamp 0.68mA/230V AC) Other information Operating temperature: 0..+50°C Operating position: any free at connecting wires Mounting: IP30 in standard conditions Protection degree*: Overvoltage category: III. Pollution degree: 2 F 1A / 250V Fuse: Connection: 3x CY, Ø 0.75 mm2 (AWG 18) 4x sol. wir., Ø 0.75 mm² (AWG 18) 2 x CY, Ø 0.75mm² (AWG 18) lenght 90mm (3.5") lenght 90mm (3.5") 2 x CY, Ø 2.5 mm² (AWG 10) Glow-lamps in control button: max.20 max.10 Dimensions: 49 x 49 x 21 mm (1.9"x 1.9"x 0.8" 49 x 49 x 13 mm (1.9"x 1.9"x 0.8") Weight: 26 q (0.92 oz.) 26 q (0.92 oz.) 27 g (0.95 oz.) 53 a (1.9 oz.) Standards: EN 61812-1, EN 61010-1 * - for more information see page 38



SMR-B



Time ranges



0.1 - 1 s



0 0 0N 1-10s



0.1 - 1 min



1 - 10 min



0.1 - 1 hrs



1 - 10 hrs



0.1 - 1 day



1 - 10 days



only ON



only OFF



Function

Function a - delay OFF on entrering 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 swithed off, switches immediately

Function c - delay OFF on downward edge

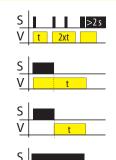
after switching off output switches on and times.

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 after switch is switched on until it is switched off

<u>Function g - impulse relay</u>

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

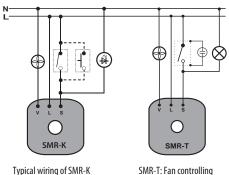
output cycles in regular intervals, cycler starts with a pause

Function j* - cycler starting with gap

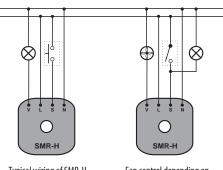
delay ON until switched off until it is de-energized or a switch is pressed again Note.: *- Function j is valid only for SMR-B



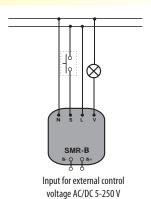
Connection SMR-K, SMR-T, SMR-H, SMR-B







Fan control depending on Typical wiring of SMR-H - timer for lamp the lighting



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.



