



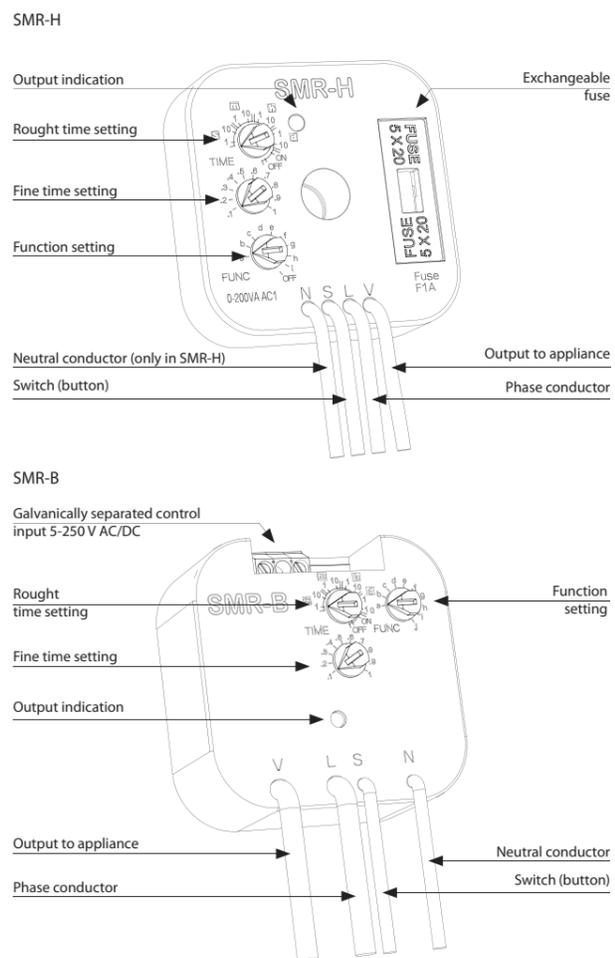
EAN code
 SMR-K / 230 V: 8595188145176
 SMR-T / 230 V: 8595188129107
 SMR-H / 230 V: 8595188129114
 SMR-B / 230 V: 8595188135566

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):		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)			
Output				
Number of contacts:	1 x triac			1x NO-SPST (AgSnO ₂)
Resistive load:	10-160 VA	0-200 VA	16 A 125/250 V AC1	
Inductive load:	10-100 VA	0-100 VA	8 A 250 V AC (cos φ > 0.4)	
Control				
Control voltage:	AC 230 V AC			230 V, UNI-5-250 V AC/DC
Control current:	25 µA	3 mA		
Impulse length:	min. 50 ms / max. unlimited			
Glow tubes connctions:	x	Yes		
Max. amount of glow lamps connected to controlling input:	230 V - max. amount 50 pcs (measured with glow lamp 0.68 mA/230 V AC)			
Other information				
Operating temperature:	0.. +50 °C (+32.. +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 / lenght):	3x CY, 0.75 mm ² (AWG 18) 90 mm (3.5")	4x sol. wir., 0.75 mm ² (AWG 18) 90 mm (3.5")	2x CY, 0.75mm ² (AWG 18), 2x CY, 2.5 mm ² (AWG 10), 90 mm	
Glow-lamps in control button:	x	max. 10	max. 20	
Dimensions:	49 x 49 x 13 mm			49x49x21 mm
Weight:	26 g	26 g	27 g	53 g
Standards:	EN 61812-1, EN 61010-1			

* for more information see page 38

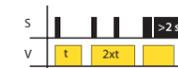
- Multifunction relay designed for installation into a wiring box or under wall-switch in an existing electrical installation.
- Advantageous and fast solution for exchanging standard wall-switch for a switch controlled by time or for an impulse relay controlled by a button.
- More information about type and size of load for these products can be found on page 123.
- **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
 - 10 functions
 - output contact 1x 16 A / 4000 VA, 250 V 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
- **SMR-B**
 - 4-wire connection
 - 10 functions
 - output contact 1x 16 A / 4000 VA, 250 V 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

Description

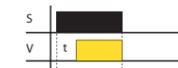


Function

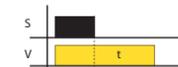
Function a - delay on entering edge
 output times when it is switched. Each following pressing (max. 5x) increases time. Long pressing swithes output off



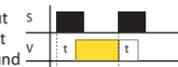
Function f - delay on
 delay on after switch is switched on until it is switched off



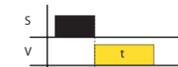
Function b - delay on downward edge
 output times after button is swithed off, switches immediately



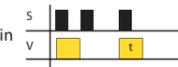
Function g - impulse relay
 switches on by a press, another pressing switches the output off. The length of pressing doesn't matter, it is possible to set reaction delay by a potentiometer and thus eliminate rebound of a button



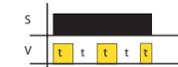
Function c - delay on downward edge
 after switching off output switches on and times.



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 d - cyler - flasher impulsem
 output cycles in regular interval, cyler starts with an impulse



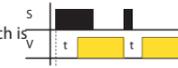
Function i - cyler starting with pause
 output cycles in regular intervals, cyler starts with a pause



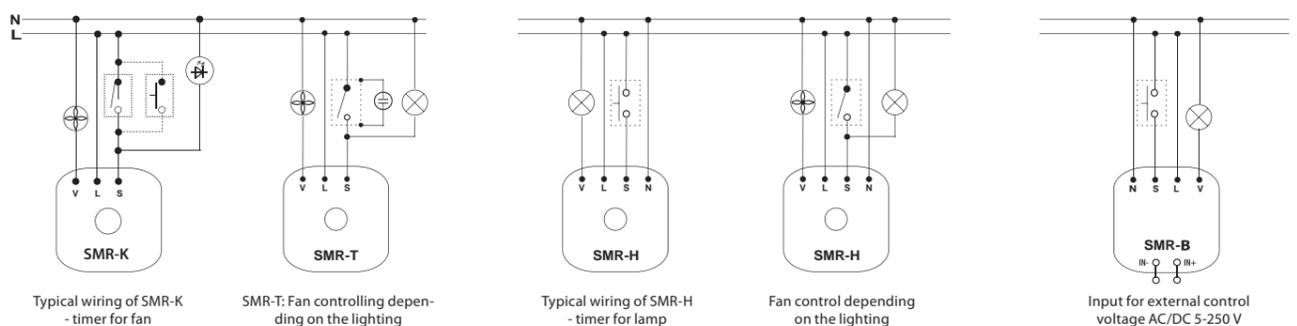
Function e - puls shift
 delay on after the switch is switched on and delay on after it is switched off



Function j* - cyler 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



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

