DIM-15, SMR-M | Universal dimmer

EAN code
DIM-15/230 V: 8595188140690
SMR-M: 8595188143776

- Designed for dimming of incandescent bulbs and halogen lights with wound or electronic transformer, dimmable light bulbs and dimmable LED².
- Enables gradual setting of luminance by push-button (non-detent) or parallel buttons.
- Returns to last state upon re-energization.
- Type of light source is set by switch-over on the front panel of device.
- Min. luminance, set by potentiometer on the front panel, eliminates flashing of light sources.

LED²: more informations on page 75

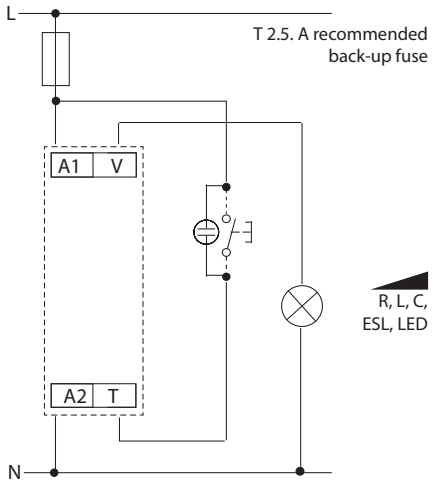
Technical parameters	DIM-15	SMR-M
Supply terminals:	A1 - A2	x
Voltage range:	x	4-wire, with neutral
Operating range:	AC 230 V (50 Hz)	
Burden (unloaded):	max. 2 VA/0.55 W	max. 0.66 VA/0.55 W
Max. dissipated power:	2 W	3 W
Supply voltage tolerance:	-15 %; +10 %	
Supply indication:	green LED	
Control		
Control terminals:	A1 - T	x
Control wire:	x	L - S
Control voltage:	AC 230 V	
Control input power:	AC 0.3 - 0.6 VA	
Control impulse lenght:	min. 80 ms/max. unlimited	
Glow tubes connection:	Yes	
Max. amount of glow lamps connected to controlling input:	max. 15 pcs (measured with glow lamp 0.68 mA/ 230 V AC)	max. 10 pcs (measured with glow lamp 0.68 mA/ 230 V AC)
Output		
Contactless:	2 x MOSFET	
Load:	300 W (at cos φ =1)*	160 W (at cos φ =1)*
Output status indication:	red LED	x
Other information		
Operating temperature:	-20 °C to +35 °C (-4 °F to 95 °F)	
Storing temperature:	-20 °C to +60 °C (-4 °F to 140 °F)	
Operating position:	any	
Mounting:	DIN rail EN 60715	free at connecting wires
Protection degree:	IP40 from front panel/ IP10 clips	IP30 in standard conditions**
Overvoltage category:	III.	
Pollution level:	2	
Terminal wire capacity (mm²):	max. 2x2.5, max. 1x 4 with sleeve max. 1x2.5, max. 2x1.5 (AWG 12)	x
Connection wires (cross-section/lenght):	x	CY, 0.75 mm² (AWG 18)/ 90 mm (3.5˝)
Dimensions:	90 x 17.6 x 64 mm (3.5˝ x 0.69˝ x 2.5˝)	49 x 49 x 21 mm (1.9˝ x 1.9˝ x 0.83˝)
Weight:	58 g (2 oz.)	33 g (1.2 oz.)
Standards:	EN 60669-1, EN 60669-2-1	

* Due to a large number of light source types, the maximum load depends on the internal construction of dimmable light sources and their power factor cos φ. The power factor of dimmable LEDs and ESL bulbs ranges from cos φ = 0.95 to 0.4. An approximate value of maximum load may be obtained by multiplying the load capacity of the dimmer by the power factor of the connected light source.
** For more information see page 75.

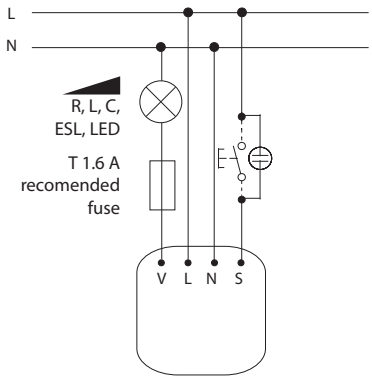
Warning: it is not allowed to connect inductive and capacitive loads at the same time.

Connection

DIM-15

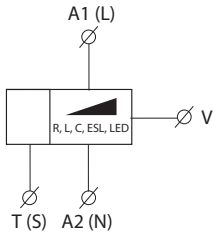


SMR-M

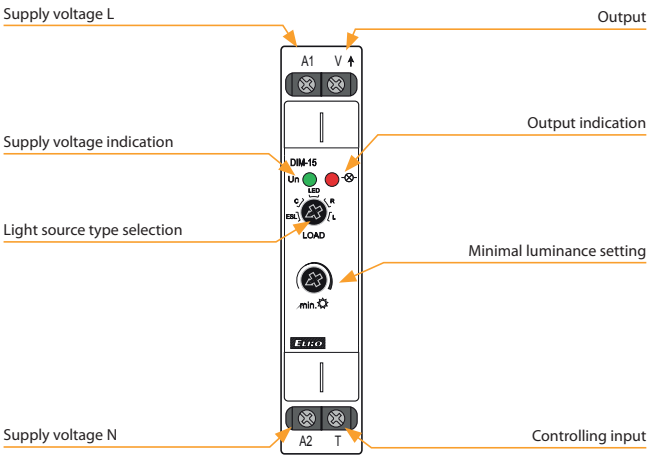


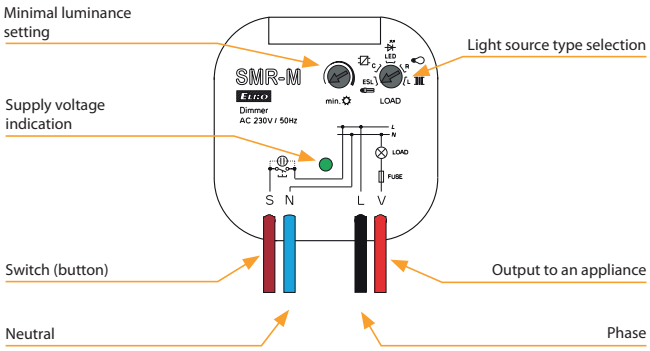
Symbol

DIM-15
(SMR-M)

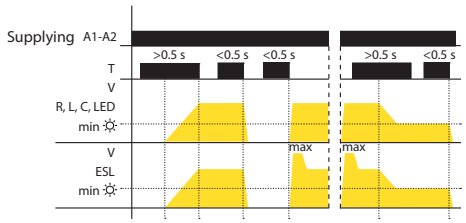


Device description





Functions and controlling



- short button press (<0.5 s) turns the light off or on
- long press (>0.5 s) enables slight regulation of light intensity
- setting of minimal luminance is possible only during decreasing of luminance by long button press
- setting of minimal luminance by saving fluorescent lamps serves for harmonizing of lowest light intensity prior its unprompted switching off

Luminance setting:

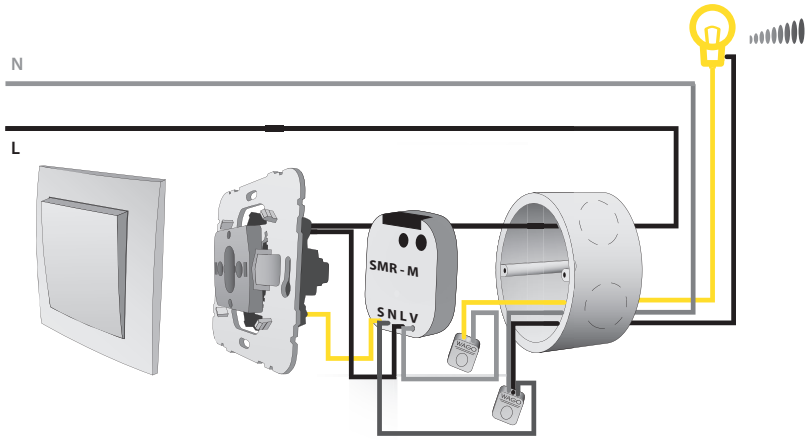
LED, R, L, C:

- if the light is turned off, short press (<0.5 s) switches the light onto last set luminance level

ESL:

- when light is off, short impulse turns lamp on and then luminance is decreased to set level

Connection example



Additional information

- it is not possible to dim energy-saving lamps without marking: dimmable
- an incorrect setting of light source has effect only on dimming range, it means neither dimmer or load get damaged
- max. number of dimmable light sources depends on their internal structure
- it is not recommended to connect light sources with diff erent types and brands, to one dimmer