PROSWEDE EL AB
"Vår kunskap – Din styrka"

Industrigatan 4
212 14 Malmö
Sweden

DIM-15

EN

Controlled dimmer

4069-001 Rev.: 2

Technical parameters	DIM-15
Supply terminals:	A1-A2
Supply voltage:	AC 230 V / 50 Hz
Supply voltage tolerance:	-15 %; +10 %
Apparent power:	max. 1.5VA
Loss power:	max. 0.7W
Supply indication:	green LED
Controlling	
Control terminals:	A1-T
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 0.68mA/230V AC)
Output	
Contactless:	2 x MOSFET
Load:	300 W (at cos φ =1)*
Output status indication:	red LED
Other data	
Operating temperature:	-20.. +35 °C
Storing temperature:	-20.. +60 °C
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP40 from the front panel, IP10 terminals
Overvoltage category:	III.
Pollution level:	2
Profile of connecting wires:	max.2x2.5, with sleeve max.1x2.5, max.2x1.5
Dimensions:	90x17.6x64 mm
Weight:	57 g
Applying standards:	EN 60669-2-1, EN 61010-1

* 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.

Warning!

Device is constructed for connection in 1-phase main AC and must be installed according to norms valid in the state of application. Connection must be realized according to the details in this instruction manual. Installation, connection, setting and operating should be made by qualified electrician staff only, who has learnt these instruction and functions of the device. This device contains protection against overvoltage peaks and disturbances in supply. For correct function of the protection of this device there must be a suitable protections of higher degree (A,B,C) installed in front of them. Before installation the main switch must be in position "OFF" and the device should be de-energized. Don´t install the device to sources of excessive electro-magnetic interference. By correct installation ensure ideal air circulation so in case of permanent operation and higher ambient temperature the maximal operating temperature of the device is not exceeded. For installation and setting use screw-driver cca 2 mm. The device is fully-electronic - installation should be carried out according to this fact. Non-problematic function depends also on the way of transportation, storing and handling. In case of any signs of destruction, deformation, non-function or missing part, don´t install and claim at your seller. After the product exceeds lifetime, it should be removed and placed in protected dump.
Important instructions and cautions – dimmer is not designated for controlling of motors or other inductive loads. HDO warning signals and other similar signals spreaded by main, can cause interruption of dimmer. Interruption is active only during transmitting of these signals.

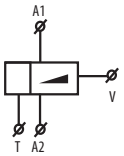
Characteristic

- designated for dimming of: a) R - bulbs, halogen lamps
  b) L - low-voltage el.bulbs 12/24V wound transformers
  c) C - low-voltage el.bulbs 12/24V electronic transformers
  d) ESL - dimmable compact fluorescent lamps
  e) LED - LED lamps
- enables slight setting of luminance intensity by pushbutton or by parallel buttons
- when de-energized, set luminance intensity is saved into device memory and after re-energized, luminance intensity is kept on this level
- type of light source is set by switch - over on the front panel of device
- minimal luminance, set by potentiometer on the front panel, eliminates flashing of some types of saving fluorescent lamps
- supply voltage 230V AC
- output status is indicated by red LED:
  - shines when output is active (with arbitrary luminance intensity)
  - flashes while heating overload, at the same time output is disconnected
- 1-MODULE version, DIN rail mounting, saddle terminals

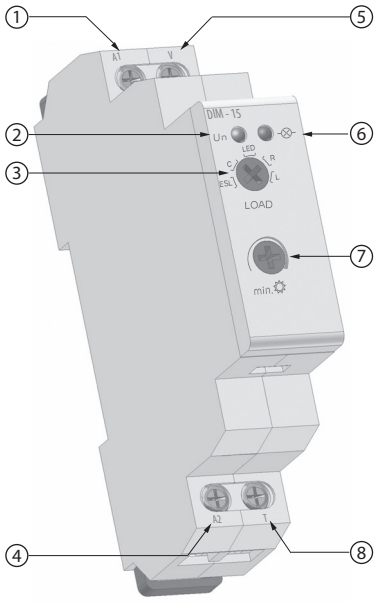
Mounting recommendation:
- on each side of device keep a gap with width 0.5 of module (cca 9 mm) for better device cooling

Warrning:
- it is not recommended to connect light sources with different types and brands, to one dimmer
- it is not possible to dim saving fluorescent lamps without marking: dimmable
- an incorrect setting of light source has effect only on dimming range, it means neither dimmer or load get demaged
- the maximum number of dimmable light sources depends on their internal construction

Symbol



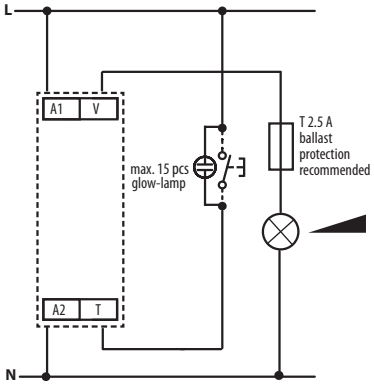
Device describtion



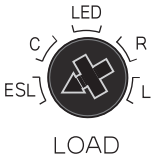
1. Supply voltage L
2. Supply voltage indication
3. Light source type selection
4. Supply voltage N
5. Output
6. Output indication
7. Minimal luminance setting
8. Controlling input

Connection

DIM-15

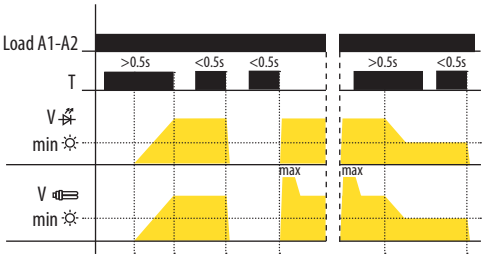


Light source type setting



ESL - dimmable compact fluorescent lamps
C - low-voltage el.bulbs 12/24V electronic transformers
LED - LED lamps
R - bulbs, halogen lamps
L - low-voltage el.bulbs 12/24V wound transformers

Functions

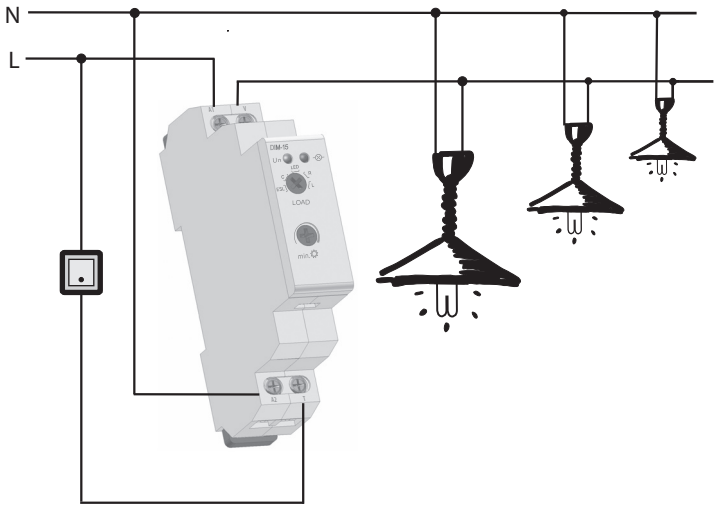


Controlling:
- short button press (<0.5s) turns the light off or on
- long press (>0.5s) enables slight regulation of light intensity
- setting of minimal luminance is possible only during decreasing of luminance by long button press
- setting of minimal luminance by saving fluorescent lamps serves for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

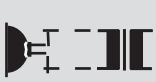
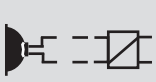
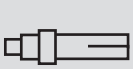
Luminance setting:
„LED, R, C, L":
- if the light is turned off, short press (<0.5s) switches the light onto last set luminance level

„Saving fluorescent lamp":
- if the light is turned off, short press increases the luminance onto maximal level (saving fluorescent lamps fires up) and then luminance decreases onto set level

Connection example



Dimming of LED and saving bulbs / lights brings you the correct light intensity!

Load	lamp,halogen light	low-voltage el.bulbs 12-24V wound trans.	low-voltage el.bulbs 12-24V el. transformers	LED bulbs	saving fluorescent lamps	switching management	
	 R	 L	 C	 dimmable	 dimmable	 incline edge	 descending edge
DIM-15	●	●	●	●	●	●	●