

Manual for additional options in PROI-250-LT-LED dimmer

Factory default settings for PROI-250-LT-LED dimmer is set to work with most used dimmable light sources, however in the case of an unsatisfactory final result there is a possibility of adjusting the dimmer by using the MICROSWITCH button.

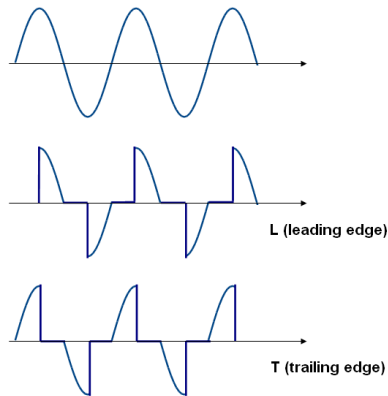
Following options are accessible after sequences of pressing MICROSWITCH button and adjustment of dimmer.



- 1) Changing the operating mode from L (leading edge) to T (trailing edge) - allows you to change the way of cutting sine wave of voltage from rising edge to falling.

Method:

- call the factory settings according to the procedure described in section 4. In the factory setting the dimmer operates in L mode. If You need T mode please follow below:
- turn off the dimmer
- press and hold MICROSWITCH button and then turn on the dimmer. After 1 second release MICROSWITCH button. It will change mode from L to T (after 1,5 second dimmer will indicate this process by giving the starting signal)



- 2) Adjusting the minimum – allows you to change factory-set minimum level, widen or narrow down minimum range of light regulation. This option is available in L and T modes

Method:

- turn on the dimmer
- set the dimmer to the minimum by touch or using IR remote control.
- press and hold MICROSWITCH button, it will start process of adjusting the minimum level.
- release the MICROSWITCH button, it will save the minimum at the selected level

- 3) Adjusting the maximum – allows you to change factory-set maximum level, widen or narrow down range of light regulation. This option is available in L and T modes.

Method:

- turn on the dimmer
- set the dimmer to the maximum position by touch or using IR remote control
- press and hold MICROSWITCH button, it will start process of adjusting the minimum level
- release the MICROSWITCH button, it will save the minimum at the selected level



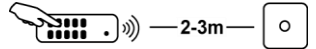
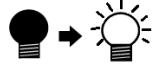
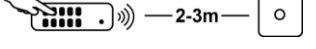

- 4) Return to the factory settings / reset procedure - allows you to return to the factory settings: L (leading edge) mode and a pre-set level of minimum and maximum. This option is available in both L and T modes.

Method:

- turn on the dimmer
- set the dimmer in the middle of the control range (25% to 70% of the control range)
- press and hold MICROSWITCH button, dimmer will indicate this process by giving the starting signal

Remote control teaching procedure

Dimmer can be learnt the code of a button of most remote controls (TV-set, Video, Audio or buttons 1-8 of our dedicated remote control YRC8) according to the following table:

Step 1 – Go on programming mode	Step 2 – Remembering the code	Step 3 – Code approval
 <p>Turn on and turn off the dimmer by hit the touch button (don't use remote control).</p> 	 <p>Push chosen button on the remote control and hold until lamps light up then release button for a moment.</p> 	 <p>Push the same button again on remote control and hold until dimmer start react to the pressed button by changing the brightness of lamps, when it happens teaching procedure will end.</p> 

From the step 1 there is 30 seconds to successfully program the button of remote control. For more detail please contact our Sales Department on www.govena.com

Light Dimmer PROI-250-LT-LED (remote and touch control)

Features:

- controlled by touch or IR remote control
- IR remote control frequency modulation 38kHz (from 20kHz to 60kHz on demand)
- most of existing IR remote control applicable thanks to code learning function
- operate in stairs circuits alongside control module **PROS1** instead of standard installations based on standard two-way and cross switches (see wiring diagram)
- via MICROSWITCH adjustable between leading and trailing edge phase control,
- adjustable minimum and maximum of brightness
- reset option
- last setting memory
- optimized for driving of dimmable LED lamps
- very low minimum power - 3W
- maximum power -100W for LEDs and 250W for incandescent
- noiseless, not depend on load type
- special circuit design to reduce load peak current
- self resetting protections:
over load, over temperature, short circuit

Dimmer is dedicated to work with following light sources:

- dimmable LED lamps
- LED diodes with dimmable CC LED drivers*
- incandescent bulbs
- halogen lamps 230V
- halogen lamps 12V with dimmable electronic transformers*
- dimmable CFL lamps, Govena DIMM (* recommended Govena products)

Dimmable LED and compact fluorescent lamps generate high pulsed currents, when they are operated in the leading edge phase control. Depending on the design and

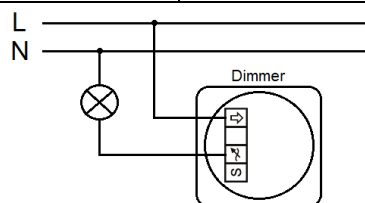
power rating of these lamps, the connected load of the specified values could vary.

Dimmer control:

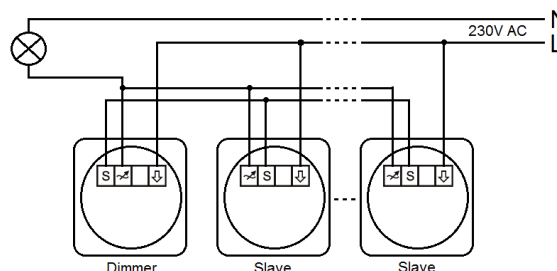
- **turn on/ turn off** – hit touch button in the middle of dimmer or hit set button on your remote control or on YRC8
- **light regulation** (light up and down) – touch button for longer period or push for longer period set button on your remote control or on YRC8 (Short break in constant touching causes change the direction of light regulation)

Technical data:

Supply voltage	230V ± 10% 50Hz
Power	3-100W (LED) 10-250W (incandescent bulbs) 1-4 pcs (Govena DIMM 15W)
Electromagnetic compatibility (EMC)	EN 55015
Safety	EN 60669-2-1
Dimensions	71x71x29mm
Diameter of mounting box	60mm
Weight	71g



Wiring diagram of dimmer



Wiring diagram of dimmer's connection with Slave (PROS1) modules

List of recommended LED lamps:

Product	Lamp power	Supply voltage (AC)	Current	Freq.
Kanlux PRODIM GU10-7,5W-WW/NW/CW	7.5W	220-240V	38mA	50/60 Hz
Osram A60 AA66582	10W		45mA	50/60 Hz
Osram PAR16 AA44088	3W		16mA	50/60 Hz
Kanlux LED COB	7W		39mA	50/60 Hz
Soraa SP30LW-18-25D-827-03-S3	18.5W		90mA	50/60 Hz
LED's CHANGE THE WORLD P45 TRO-4024-00	5.5W		45mA	50/60 Hz



Symbol of crossed-out wheeled bin placed on the equipment, packaging or into the attached documents signifies the necessity of selective collection of waste electric and electronic equipment. The user is obliged to pass on waste equipment to the special collection point for appropriate recycling. The correct disposal of waste equipment prevents potential negative consequences for the environment and human health.

