UNIVERSAL DIMMER

Manual Instructions

RE EL1 LE1

Description

Universal dimmer for any type of dimmable lamp:

- LED1: 230V dimmable LED lamps.
- LED2: 12V dimmable LED lamps (with trailing edge electronic transformer, type C).
- Universal: RLC loads. Valid for Incandescence, 230V Halogens or Halogens with electromagnetic or electronic transformer. Built-in automatic load type detection.
- CFL: Dimmable Compact Fluorescent lamps (CFL).

Modular design. DIN rail mounting.

Memory function (MEM): the brightness level is stored when turning off.

Pushbutton control. Admits up to 3 lighted pushbuttons.

Protected against shortcircuits and overloads.

Overtemperature protection: it will decrease the brigtness level in case of high temperature.

Leading edge (LED1, L & CFL) or trailing edge (LED2 & RC) dimming, depending on the position of the rotary switch and the connected load. It is very important to select correctly the connected load in order to avoid the breakage of the dimmer or the lamps.

It has a control knob (- +), allowing to select the minimum brigtness level. It avoids undesirable effects (e.g.: blinks) when the lamps are dimmed at a low level.

Master/Slave function. It allows:

- To increase the load to be controlled from an only control.
- To control the dimmer by a remote control and an interface: CO REG R01 + CO REG R03.

Installation

1 - Switch the power supply off.

2 - Select the type of lamp which is going to be connected: LED1, LED2, Universal or CFL.

3 - Install the dimmer according to the wiring diagram.

4 - Make sure that the lamps are connected and supply the dimmer.

5 - Switch the lamps on with a short pulse. Then press the pushbutton until reaching the minimum brightness level. At that point release the pushbutton and check the lamps are correctly switched on and there is not flickering. Otherwise turn the control knob “- +” right until reaching an appropriate level.

Operation

A short pulse will switch-on the lamps at its maximum level (red led OFF, NO MEM) or at the brightness level fixed before switching it off the last time (red led ON, MEM).

In order to activate or deactivate the MEM function it is only necessary to press the indicated hole. If the red LED is ON this function is activated.

A long pulse dims the lamps. To change the dimming directions (increase or decreasing) just release the pushbutton and press it again.

For switching the lamps off press shortly the pushbutton.

It is possible to set-up the dimmers as Master / Slave to extend the power controlled. Being configured as Slave the red LED will flash and the MEM key has no function. Once the controller is wired as a Slave, the pushbutton input is void. To retrieve the option of the pushbutton, and get him out of slave mode, it is necessary to remove and replace the power supply to the dimmer.

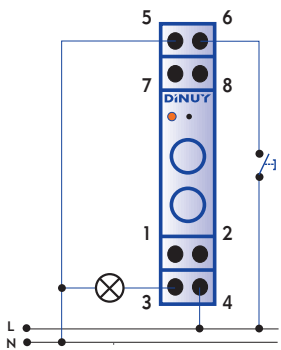
Technical Specifications

Power supply		230V~ 50Hz
Consumption		3VA
Valid for..		Dimmable LED lamps, Incandescence, Halogens & dimmable CFL
Load	LED1: 230V LED	4W - 100W
	LED2: 12V LED (with electronic transformer) (*)	Power of transformer: 300W (*) (e.g.: 6 transformers of 50W or 3 of 105W)
	U: Incandescence & 230V Halogens	15W - 400W
	U: Halogens with Electronic transformer	15W - 400W
	U: Halogens with Electromagnetic transformer	20W - 250W
	CFL	20W - 200W
Minimum brightness level		Adjustable
Control		Up to 3 lighted pushbuttons and an unlimited number of non-lighted
Dimensions		1 module wide
Weight		68g
Working temperature		0ºC ~ +40ºC
Storage temperature		-30ºC ~ +70ºC
Environmental protection		IP20 according to UNE 20324
According to the Standard		EN 60669-2-1

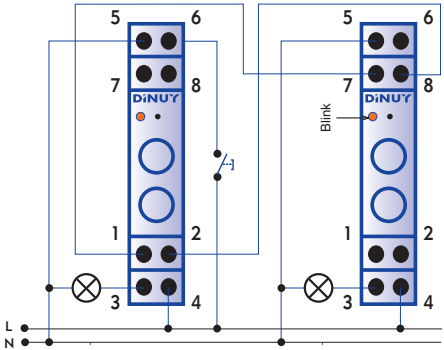
(*) The number of lamps per transformer is determined by the manufacturer of the lamp.

Wiring Diagrams

Installation with a Pushbutton



Master/Slave installation



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