

**Dimmer DM-500/b** (Lighting Controller) is an innovative product of digital technology Leading Edge & Trailing Edge, specially created to fully cover the needs for regulation of lighting intensity and for energy saving, in the use of alternative types of lamps such as EDISON (Filament LED), (dimmable LED), economy lamps (dimmable CFL) and previous generation light bulbs (Resistive - Halogen). It is a totally safe, reliable, and aesthetically shaped product made of Special integrated circuits of cutting-edge technology and of resistant plastic parts for difficult conditions of operation and usage.

**Control:** The DM-DGL/b has 3 buttons for control and a remote control input.

**•Button 1:** It is used to activate and de-activate the electric load. **•Button 2 & 3:** They are used to adjust the lighting intensity and therefore the consumption of the load at the desired point for the operator, from 1% to 100%.

**Remote control:** from one or more parallel buttons for adjusting the lighting intensity (ON / OFF by briefly pressing the button and longpress the lighting - dimming).

**Select function:** Leading to Trailing Edge and conversely is accomplished by long pressing on all three buttons for more than six (6) seconds.

**Adjustment of minimum power limit:** The DM-500/b provides the capacity to also control loads from single-phase electric motors. Therefore, it is necessary to control the lower engine speed of the electric motor in order to avoid its overheating and thus its destruction:

- STEP 1:** Keep the button No 1 (ON / OFF) pressed.
- STEP 2:** While the button No 1 is pressed, adjust the engine speed of the electric motor with buttons No 2 & No 3 (UP / DOWN) at the lowest allowed threshold.
- STEP 3:** Release button No 1 (ON / OFF) and the adjustment is complete. To readjust the lowest threshold the same process must be repeated.



## TECHNICAL SPECIFICATIONS

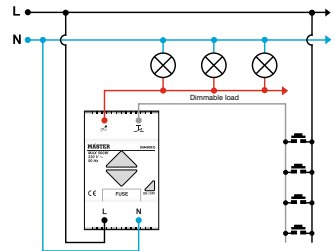
DIMMER	Triac - Digital
FUNCTION	Soft Start
OPERATING VOLTAGE	180 - 230VAC
POWER LINE FREQUENCY	50Hz
LOAD MAX	1000Watt
POWER CONSUMPTION (NO LOAD)	0,8 Watt
ENVIRONMENTAL CONDITIONS	Operating temperature -20 °C to + 50 °C Storage temperature -20 °C to + 60 °C
WIRE SIZE	Flexible capacity $\varnothing$ 0.5mm <sup>2</sup> to 3.5mm <sup>2</sup> Rigid capacity $\varnothing$ 0.5mm <sup>2</sup> to 3.5mm <sup>2</sup>
MOUNTING	Din-rail mounting 35 x 7.5mm (DIN 45277)
SELECT FUCTION	Switching from Leading to Trailing Edge by simultaneously holding down the three buttons for 6 sec
FUSE	2,5 A / 230VAC

## CONTROL LOAD

R	L
Resistive	Inductive
500 W	500VA
1W	1VA

C / L			
CAPACITIVE / INDUCTIVE / FILAMENT			
	Dimmable economy	Dimmable LED	Dimmable Filament
500VA	500W	500W	500W
1VA	1W	1W	1W

## DRAFT OF ELECTRICAL INSTALLATION



### Installation instructions

- 1) To prevent fire or electrical shock, the installation must be done by qualified personnel. Any error during installation or wrong use may cause severe accident.
- 2) Install the product according to the draft of electrical installation.
- 3) Do not install different type of loads (Capacitive - Inductive). Especially for LED lamps is recommended to use the same type.

### Safe Operating Instructions

- In case of overheating or overload, the available load is automatically reduced. In order to avoid this situation:
  - Go from Leading Edge (pre-setting) to Trailing Edge as described in Function Selection.
  - Reduce the number of connected loads at the output of the product.
- In case of using the product with electronic transformer, they must have indication of compatibility with semiconductor switching devices (dimmer).

The product complies with the requirements of the following EU Directives.

- 2014/30/EE (EMC) • 2014/35/EE (LVD)