

**Dimmer DM - 400N** (Lighting Controller) is an innovative product of digital technology Leading & 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:**

Dimmer DM-400N is controlled by a rotary potentiometer for modulation of lighting, which incorporates a button (ON / OFF) for turning the lighting on and off.

**Select function:** Leading Edge to Trailing Edge and conversely is accomplished by long pressing on the built-in potentiometer for more than six (6) seconds.

**Lowest threshold setting:** DM-400N can adjust the minimum point of brightness for Dimmable LED lamps, if required. This process is achieved by adjusting a potentiometer (trimmer) located on the side of the product.

**ADVANTAGES**

- Specially designed for alternative types of lamps such as LED Filament, LED Dimmable, CFL and Dimmable electronic transformer.
- Complete stability in lighting (Flickering) with the use of neutral.
- Maximum number of lamps (LED Filament & LED Dimmable).
- Select function (Leading - Trailing Edge) depending on the connected load.
- Soft Start mode to protect lamps.
- Adjust the lowest threshold of brightness on the LED lamps.
- Electronic protection against overheating and over-voltage with automatic reset to operational mode.

**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.

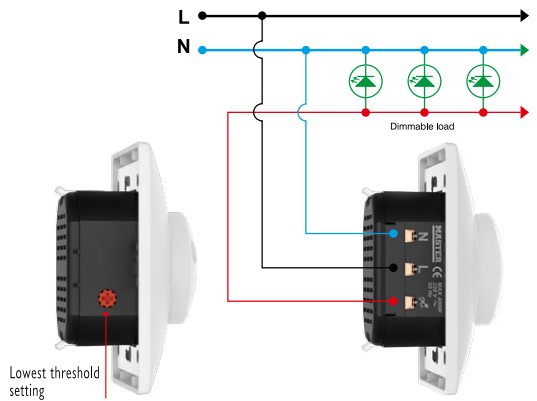
**Safety Operation Instructions**

- 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 Select Function.
  - 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)



DRAFT OF ELECTRICAL INSTALLATION



**TECHNICAL SPECIFICATIONS**

DIMMER	Digital (IGBT) - LED
FUNCTION	Soft Start
OPERATING VOLTAGE	180 - 230VAC
POWER LINE FREQUENCY	50Hz
LOAD MAX	400Watt
POWER CONSUMPTION (NO LOAD)	0,6 Watt
ENVIRONMENTAL CONDITIONS	Operating temperature -20 ° C to + 50 ° C Storage temperature -20 ° C to + 60 ° C
WIRE SIZE	Flexible capacity Ø 0.5mm <sup>2</sup> to 3.5mm <sup>2</sup> Rigid capacity Ø 0.5mm <sup>2</sup> to 3.5mm <sup>2</sup>
MOUNTING	Electrical box switch ≥40mm depth
SELECT FUCTION	Leading - Trailing Edge
FUSE	Electronic protection against overheating and overvoltage
CONTROL	Rotary Potentiometer (Local)

**CONTROL LOAD**

R	L	C / L				
		RESISTIVE	INDUCTIVE	CAPACITIVE / INDUCTIVE / FILAMENT		
400 W	400VA	400VA	400W	400W	400W	400W
1W	1VA	1VA	1W	1W	1W	1W



When the product is placed out of service, it must withdraw according to the national legislation and environmental protection requirements.