

The **DM-300/b** rail mounting digital dimmer (light adjuster) is an innovative product of digital technology **Leading edge & Trailing edge**, especially designed to fulfill the needs of professional spaces in the important field of lighting adjustment and energy savings.

Its perfect linearity in lighting adjustment with alternative types of lamps such as Filament LED, Dimmable LED, Dimmable CFL and previous technology lamps (HALOGEN) makes this product unique.

The product can be remotely controlled through one or several distant buttons (any type or company).

The output power of the product can be expanded indefinitely by adding amplifiers **DM-BST/R** (300W per amplifier) thereby making any electrical application possible.

### Control

The **DM-300/b** rail-mounting dimmer has 3 buttons for control and a remote control input.

- **Button (ON/OFF):** It is used to activate and de-activate the electric load.
- **Button (+ & -):** 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%.
- **Input for wired remote control** from one or more parallel buttons for adjusting the lighting intensity.
  - ON/OFF by briefly pressing the push button.
  - Dimming by a long press the push button.

### Adjustment of minimum power limit

The **DM-300/b** can adjust the lower threshold of the lightning intensity of the Dimmable LED lamps if it's required.

This takes place as follows:

- Step 1.** Long press the ON/OFF for 6 sec and the LED indicator of the DM-300/b will start blinking orange.
- Step 2.** Press up (+) or down (-) to adjust the lower threshold of the Dimmable LED lamps.
- Step 3.** Press the button ON/OFF briefly once to save the adjustment.

**NOTE:** When the process is over the LED indicator on the DM-300/b will turn green. Repeat the steps in order to re-adjust the lower threshold if it's required.

### Technical Specifications

RAIL-MOUNTED DIMMER / 1 MODULE	1 Channel (IGBT) LED
OPERATING VOLTAGE	180 - 230V AC
OPERATING FREQUENCY	50Hz
OUTPUT POWER	300W (max)
OUTPUT POWER BOOST	The output power of the product can be expanded by adding amplifiers DM-BST/R (300W per amplifier)
STAND BY CONSUMPTION	≤ 1W
TEMPERATURE CONDITIONS	Operation -20°C to +50°C Storage -20°C to +60°C
FUSE	Electronic protection against overheating and overvoltage with automatic reset in operational mode.
WIRE SIZE	Ø0,5mm to Ø3,5mm
MOUNTING	Din-rail mounting 35x7,5mm (DIN 45277)



### Electric Loads

R	C / LED			
300W (max)	300VA (max)	300W (max)	300W (max)	300W (max)
1W min	1VA min	1W min	1W min	1W min

### Note

- In order to control inductive loads such as electromagnetic transformers and motors it's mandatory to connect the booster DM-CHL (1000W/50Hz) per amplifier. Do not try to use the DM-300/b directly.
- All the settings of DM-300/b, lower threshold-lightning percentage - ON/OFF state, are saved in a EEPROM so in any power outage the dimmer will return in the last known condition.

### Phase-Cut Dimming

The **DM-300/b** enables the user select the type of Phase-Cut Dimming according to the load **Leading Edge and Trailing Edge**.

In order to select Leading Edge or Trailing Edge long press for 6 sec the following buttons on the device:

- **Leading Edge:** (+) & (ON/OFF) The LED indicator will flash GREEN
- **Trailing Edge:** (-) & (ON/OFF) The LED indicator will flash RED

**CE** The product complies with the requirements of the following EU Directives: • 2014/30/EE(EMC) • 2014/35/EE (LVD)

This product should be disposed of in accordance with national laws and environmental protection requirements.

### Draft of Electrical Installation

