

# Dimmax 420BLE – User Manual

## Foreword

- The Dimmax 420BLE **universal** dimmer can dim your LED lightings, classical and halogens light bulbs (230V/12V via transformer).
- For an optimal functioning, only connect a single type of lamp to the dimmer.
- In order to operate the dimmer, an external connected pushbutton is required.
- The dimmer must have its own power supply (phase, neutral)
- The dimmer remembers the last dimming position (ex-factory the dimming is set to 50%).
- The Dimmax 420BLE power can reach up to 200W for LEDs and 420W for other lamps ; 30 lamps max.

## Wiring and configuration of the dimmer

In order to get a good dimming, it is necessary to follow these steps :

1. Plug the dimmer according to the hereby enclosed scheme (cut off the 230V with the circuit breaker first)
2. The different modes of the dimmer can be selected with the Dmax application available for free on Google Play or Apple App Store. Pick a username through the app. After reconnecting the 230V power, do a scan and then follow the authentication process in order to add the corresponding Dimmax. Go to settings to change the mode and the dimming options. For further details about the app, see the instructions for use at [www.dmaxbydomintell.com](http://www.dmaxbydomintell.com).
3. Plug the lamp and make sure it is properly dimming (ex-factory configuration of the dimmer is set to mode 1):
  - The lamp is correctly dimming ? (progressively and until a minimum level) → Go to step 4.
  - The lamp doesn't dim correctly ? (improperly or not at all) → Try with another mode.
  - The lamp doesn't dim correctly in any mode (improperly or not at all) → Read thoroughly the user manual as well as the possible error codes detailed in the technical documentation available on the website.
4. Now set the minimal dimming level via the app (minimal threshold).

In case you have a question, see the detailed version at [www.dmaxbydomintell.com](http://www.dmaxbydomintell.com) or contact your supplier.

## Technical data

Item number	Type	Voltage	Power	Dimensions (mm)
5425014390261	420BLE Dimmer	230V	0-420W (LED 0-200W)	46 x 46 x 18

- Nominal conditions : 230V AC +/- 15%, 50 Hz, Ambient temperature : -10°C to 40°C.
- The Dimmax 420BLE is designed for lightings. Other loads (such as engines) are forbidden.
- Maximum wiring section per contact = 2,5 mm<sup>2</sup>.
- Maximum tightening torque : 0,4 N.m (use a dynamometric screwdriver).
- 2 protections self-resettables : against overcurrent and temporary overheating
- 2 additional physical protections: a 230V power cut-off thermostatic switch, self-resettable, and a fuse (non replaceable)
- Degré de protection IP20.

## Safety and environment

- Without halogen, RoHS.
- Storage conditions: Temperature: -25°C / +70°C, Relative humidity : < 75%.
- For a safe installation, the device can only be mounted by a qualified electrician.
- The device must not be opened in any case (cancels warranty).
- The device can only be installed inside, in a dry place, compatible with IP20 devices.
- During the mounting and unmounting of the device, cut off the 230V circuit-breaker.
- The screws of the connectors of the device are unscrewed at delivery and must be properly screwed before use.
- After installation, the screws of the connector must be protected so that could not be accessible for the final user.

## Operation mode settings

After reconnection of the 230V, the 420BLE Dimmax turns on. The operation mode is set through the app:

**Mode 1 = trailing edge dimming**, to be used with:

- Classical 230V lamps (light bulbs or halogens (BEST mode for a cold start), power 0 – 420W.
- Electronical converters or trailing edge compatible 230V dimmable LEDs, power 0 – up to 200VA.

**Mode 2 = leading edge dimming**, also called "triac mode", to be used with:

- Disc-wound transformers for 12V halogens (the Dimmax 420BLE automatically detects them and forces mode 2), power 0 – 380VA.
- Electronical converters or dimmable leading edge compatible LEDs, power 0 – up to 200VA.

**As soon as the mode is changed, the Dimmax 420BLE is ready to work under the control of the pushbutton.**

## Pushbutton control

For a LONG PUSH (>0,4s) on the button : the dimmer turns on (if it was OFF) and the dimming level slowly increases/decreases between Min (settable) and Max (100 % = total conduction) level ; the last level is maintained by releasing the button.

For a SHORT PUSH (<0,4s) on the button : the dimmer turns on or off with a smooth transition.

