

LED Universal Dimmer Mono - User Manual



Item no.: LC-020-001

1. Product Introduction

With this dimming module it is possible to drive LEDs with different signals.

1. driving by DALI signal
2. dimming and on / off by means of standard switches (push, touch or Switch Dim)
3. dimming and on / off via 1-10V Dimmer

About the Sync terminal several dimmers can be connected via Switch Dim or 01-10V Dimmer so that they run synchronously.

2. Performance Parameter

max. Output Power	1x5A (120W/24V)
PWM Frequency	600Hz
max. Wire Cross-Section	1,5mm ²
Product dimensions (L x W x H)	153 x 30 x 21mm
Weight	56g

3. Description

The Universal dimmer and the connected LED(s) will be powered by the power supply / LED driver at the input of the Universal dimmer.

The dimming function is achieved by pulse width modulation control (PWM) at the LED minus output. The switching frequency is around 600Hz. The control range covers 10% to 100% intensity and 0% in the OFF position.

The Universal dimmer can handle 1 to 10V analog input, "Digital Addressable Lighting Interface" (DALI), or SwitchDim input (control with mains voltage via pushbutton).

The DALI / SwitchDim (SWD) input is electrically separated by reinforced insulation from the other Universal dimmer connectors.

All control inputs are being checked sequentially at startup and are kept in memory at the next switch off.

The combined use of different control modes with one Univesaldimmer is not possible.

When using 1 to 10V or SwitchDim mode, the synchronization of several Univesaldimmers is effected by connecting the SYNC-terminals. Thereby, all Univesaldimmers run at the same rate and do not vary due to electrical variations or tolerances. The synchronization signal operates at 150Hz.

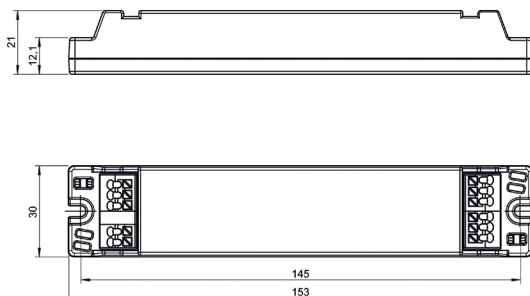
For the use of the LEDs in constant current mode in combination with the LED Driver, the CTRL input of the LED driver **MUST** be connected to the CTRL output of the Univesaldimmer. This will help to avoid current spikes, thereby protecting the driver and the LEDs.

If the Univesaldimmer is used with LEDs in constant voltage mode, the CTRL input may not be connected.

4. Safety Warnings

- 4.1. To avoid installed the product in minefield, strong magnetic field and high voltage area.
- 4.2. To ensure the wiring is correct and firm avoiding short circuit damages to components and cause fire.
- 4.3. Please install the product in a well ventilated area to ensure appropriate temperature environment.
- 4.4. The product must be worked with DC constant voltage power supply.
Please check the consistence of input power with the product, if the output voltage of the power comply with that of the product.
- 4.5. Connect the wire with the power on is forbidden. Ensure proper wiring first then check to ensure no short-circuit, then power on.
- 4.6. Don't repair it by yourself whenever an error occur. Contact the supplier for any inquiry.

5. Dimensions



6. Conjunction Diagram

