

# LED DALI PD Universaldimmer 300W - User Manual



Item no.: LC-004-030



Item no.: LC-004-031

## 1. Product Description

The DALI PD Universaldimmer 300W is a module to integrate „dimmable“ 230V luminaires into a DALI-line. E.g. for dimming 230V LED-Retrofitbulbs via DALI (Device Type 4 from firmware 3.0 and higher) and is for loads from 10-300W.

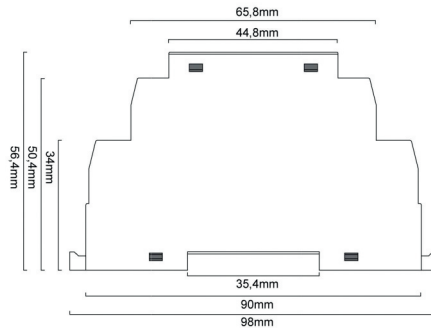
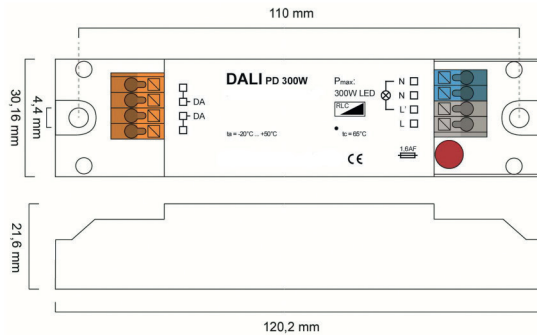
## 2. Specifications

Supply	via DALI-Bus
typ. current consumption	6 mA
Input	DALI
Mains Voltage	230VAC
load range	10W-300W
max. wire cross-section	2,5 mm <sup>2</sup>
dimensions (L x B x H) in mm	120 x 30 x 20 mm (LC-004-030) 98 x 28 x 56 mm (LC-004-031)
weight	55g (LC-004-030) 49g (LC-004-031)

## 3. Description

1. Module to integrate “dimmable” 230V luminaires into a DALI-line
2. E.g. for dimming 230V LED-Retrofitbulbs via DALI (Device Type 4 from firmware 3.0 and higher)
3. Conversion of the 8-Bit Arc-Power Level into a phase cut controlled voltage (trailing/leading edge)
4. The minimum dim level can be set via DALI (MIN LEVEL)
5. The module represents a DALI-line client and therefore it has its own DALI-address.
6. Double DALI terminals - the DALI signal line is connected through.

## 4. Dimensions



Info universal dimmer:

universal dimmer, suitable for resistive, inductive and capacitive loads. The dimmer is configured as trailing edge dimmer. If an inductive load is connected, the dimmer will recognize this after mains is supplied and will transit to leading edge phase cut operation

Function

The DALI PD interface converts the DALI dim level into a voltage signal. The phase cut control generates a sinusoidal voltage with leading/trailing edge phase cut (logarithmic dimming characteristic corresponding to DALI). The operation mode (trailing/leading edge) can be queried via DALI (DT4). The PHYSICAL MINLEVEL is 3%.

## Connection

The DALI PD is connected to the DALI-line. The phase cut control and the DALI communication is supplied directly by the DALI line. A typical value of the current consumption is 6mA. In order to supply components on a DALI line the installation of a power supply (DALI PS) is required. The connection to the DALI-line is polarity free.

Internally the DALI-terminals are connected through as visualized on the housing.

**ATTENTION:** Do not apply any potential to the light bulb connector!  
Switch off mains supply before replacing the light bulb.

The input of the phase dimmer (L-N) has to be connected to the mains. The DALI PD is suitable for load from 10W to 300W.

## 5. Wiring Diagram

