



DALI PCD 300 one4all

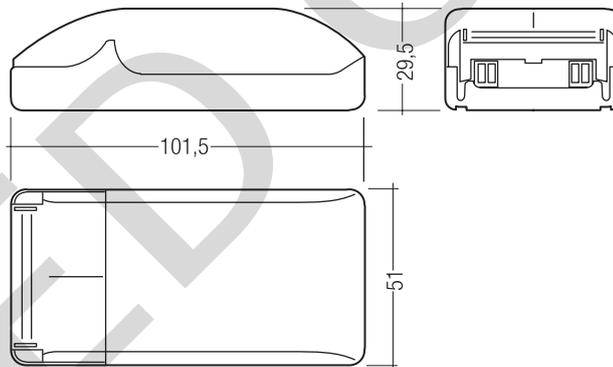
Leading-edge/trailing-edge phase dimmer

Product description

- Digital leading-edge and trailing edge phase dimmers
- Total connected load: 30 – 300 VA
- one4all input: DALI, DSI and switchDIM input
- 1 dimmed phase (output)
- With automatic load detection
- Surface-mounted casing
- Status LED for indicating the operating status
- Not suitable for operation with LED bulbs
- 5-year guarantee

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Connected load	30 – 300 VA
Power loss	0.75 W (1.8 W at full load)
Ambient temperature ta	0 ... +50 °C
Type of protection	IP20



Standards, page 2

Wiring diagrams and installation examples, page 2

Ordering data

Type	Article number	Packaging, carton	Weight per pc.
DALI-PCD 300 one4all	86458303	25 pc(s).	0.085 kg

Specific technical data

Type	Inputs			Outputs		Terminals
	Input, DALI/DSI control input and switchDIM	Current draw	Number of DALI addresses	Dimmed phase	Control range, DSI / Control range, DALI	
DALI-PCD 300 one4all	1	2 mA from DALI	1	1	0; 1 – 100 % / 0; 0.1 – 100 %	0.5 – 1.5 mm ²

Standards

EN 61547
EN 61347-2-11
EN 60669-2-1
EN 55015
EN 55022
EN 61000-3-2
IEC 60929 (according to DALI standard V0)

Phase dimmers with automatic load detection, leading-edge or trailing-edge. They are controlled via switches (switchDIM) or via a DALI/DSI signal. Total connected load: 30–300 VA

Area of application:

Digital phase dimmers enable low-voltage tungsten-halogen lamps, in conjunction with electronic or magnetic transformers, and ohmic light sources (incandescent lamps) with a total output of 30 to 300 VA to be dimmed.

Control is either via a DALI/DSI signal or directly connected switches (switchDIM).

The digital phase dimmer is not compatible with LED retrofit lamps. LV halogen LED retrofit lamps that are operated by an electronic or magnetic transformer are also not compatible.

Glow-wire test

according to EN 60598-1 passed.

switchDIM:

When a new unit is installed in an existing system or when the system is first put into operation the individual units are not synchronised. This means that some units will be at status on and some at status off. Pressing the switch briefly will change the status; units previously on will be switched off, but the rest will be switched on. By pressing the switch for longer than 10 seconds all the units will be synchronised to the same status. The synchronisation process is completed when all the lamps have assumed the same light value (50 %).

The same synchronisation process may also be necessary during normal operation if an individual unit becomes unsynchronised because of an incorrect switching operation.

switchDIM is a very simple tool for controlling ballasts with conventional momentary-action switches or motion sensors.

To ensure correct operation a sinusoidal mains voltage with a frequency of 50 Hz or 60 Hz is required at the control input.

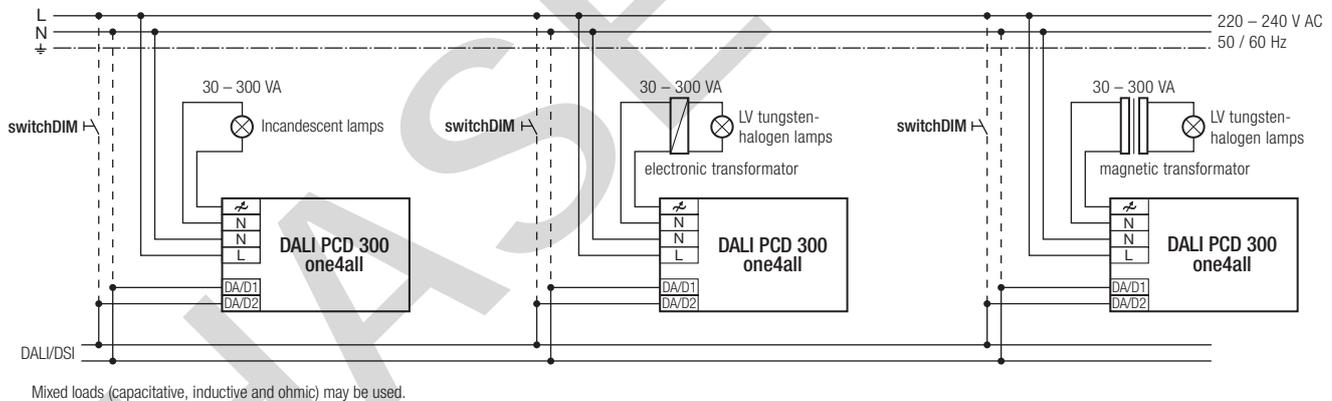
Special attention must be paid to achieving clear zero crossings. Serious mains faults may impair the operation of switchDIM.

DALI addressing:

The DALI PCD 300 one4all also supports physical DALI addressing. Press the button between the terminals to assign the address.

Status-LED for the operating mode:

Normal operation:	LED off
Overload:	LED flashes slow (1/sec.)
Short-circuit:	LED flashes fast (5/sec.)
Permanent short-circuit/overtemperature:	LED on

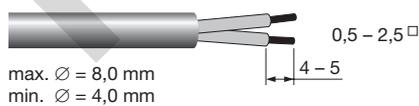


Wiring type and cross section

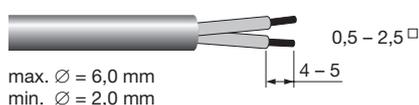
The wiring can be in stranded wires with ferrules or solid. For perfect function of the cage clamp terminals the strip length should be 4 – 5 mm for the input terminal.

The max. torque at the clamping screw (M3) is 0.2 Nm.

Side D2



Side D1



To get a proper working strain relief it is recommended that the cable jacket diameter of the side D2 is 2 mm bigger than the diameter of the side D1. (This can vary if the used cable jacket material varies from side D2 to D1 in pinching property).

