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## Phase dimmer with DALI control input (DT4)

### DL-PD-300W-RLC-HS

**Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!**

Temperature at mounting location:  
-20°C up to +50°C.  
Storage temperature: -25°C up to +70°C.  
Relative humidity:  
annual average value <75%.

## Phase dimmer with DALI control input for DIN top-hat rails DIN-EN 60715 TH35. 98x17,5x56 mm. Protection class IP20.

Suitable for dimming 230 V LED retrofit luminaries using DALI Converts DALI dimming level to a voltage with leading or trailing edge. The minimum dimming level (MIN LEVEL) is adjustable via DALI. Additional operating mode as switch (conforms to DT7) as from Firmware 3.5. The module represents a bus user and is therefore addressable. Double terminals for easy looping of the DALI bus. Dimming range 0.1%-100%. Supply voltage 230 V AC. Output load range 10-300 W. High efficiency. Configuration via DALI Cockpit PC software.

### Function:

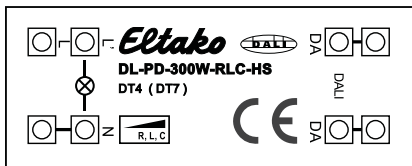
The DALI PD is an interface between classic dimming technology (phase dimming) and DALI which is based on the standard for DALI Control Gear (IEC 62386-102) and Device Type 4 equipment (IEC 62386-205). The DALI PD interface converts the required dimming level into a corresponding voltage signal with leading or trailing edge. Depending on the load the universal dimmer operates as a leading or trailing edge dimmer. The operating mode can be requested over DALI (DT4). The dimming characteristic is based on a logarithmic scale as stipulated in the DALI standard. The leading or trailing edge control supplies a sinusoidal voltage with a phase-cut on the

leading or trailing edge. The PHYSICAL MIN-LEVEL is 3%.

As of Firmware version 3.5 the DALI PD is equipped with an additional operating mode. It is switchable from DT4 operating mode (phase dimming) to DT7 (switch). In this operating mode the DALI PD acts as a switch. Its behaviour in this mode corresponds to the DALI standard for DT7 devices (IEC62386-208). In this operating mode the switch characteristic is determined by comparing the virtual dim level (VDAP) with 4 switching thresholds. The virtual dim level (VDAP) corresponds to the dim level of a DALI electronic ballast with its corresponding characteristics (limited by MINLEVEL and MAXLEVEL, dimming speed limited by fade time and fade rate). There are 2 switching thresholds in each dimming direction and they are used for comparison with the virtual dim level: A threshold with the value 'MASK' is inactive and is not used in the comparison. Switch-on/off delays can be implemented with fading. The device is powered from the DALI bus so that there is only partial support for the SYSTEM FAILURE LEVEL. On current devices (identified by Firmware > 4.0), you can choose between 0%,100% and MASK. On older models the SYSTEM FAILURE LEVEL is fixed - the 25 W variant outputs 100%; the 300 W variant outputs 0%.

### Technical data

Output load range	10-300 W
Screw terminals:	
Max conductor cross-section	2,5 mm <sup>2</sup>



**The crossed-out waste container indicates that batteries may not be disposed with other household or commercial waste.**

**Must be kept for later use!**

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