

# elitedali™ - for Niagara

smart lighting controls

[www.elitedali.com](http://www.elitedali.com)

## elitedali Phase Dimmers Datasheet

### Introduction

CNS continues to work with all DALI® product manufacturers to ensure the widest range of DALI products is available to the global Niagara community that are suitable for use with **elitedali** for Niagara.

These compact DALI Phase Dimmers are for use with non-intelligent 230V AC dimmable light fixtures including 230V AC LED –Retrofit bulbs in a DALI lighting control solution.

This offers additional cost and operational flexibility in smart **elitedali** lighting control solutions. Whether for initial low cost upgrades of non-intelligent lighting fixtures or where a mixed solution of DALI intelligent and non-intelligent light fixtures is required.

These dimmers offer choices of load from 3W to 300W for Resistive, Inductive and Capacitive load options.



### Features

- ◆ Compact modules for direct control of 230VAC loads via DALI and Niagara
- ◆ Provides simple low cost solution to integrate non-intelligent dimmable light fixtures into a DALI network controlled and monitored via **elitedali** in Niagara
- ◆ Enables ON/ OFF and Dimming control via **elitedali** in Niagara and complies with IEC 62386 DALI Type 4 switching function
- ◆ 3 – 25 W and 10 – 300W options for Resistive, Inductive and Capacitive Loads
- ◆ Each phase dimmer device represents one DALI address

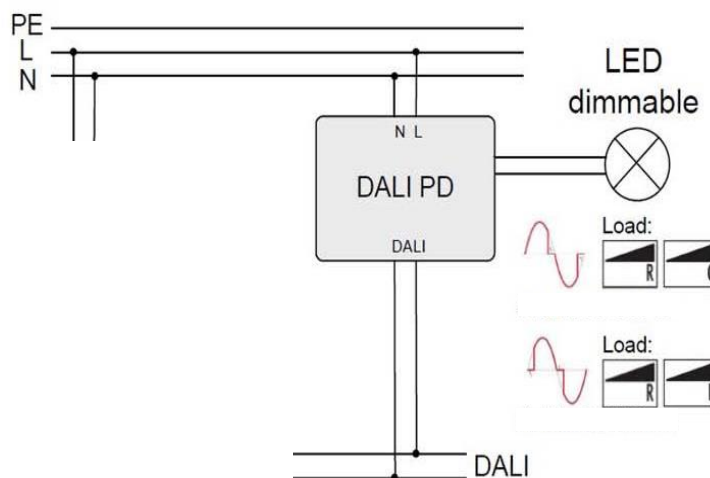
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### Specifications

	<b>3 – 25W</b>	<b>10 – 300W</b>
<b>Device Power Supply</b>	Via DALI network	Via DALI network 6mA
<b>Typ. Current consumption</b>	6mA	6mA
<b>Mains Voltage</b>	230VAC	230VAC
<b>Trailing edge Phase angle</b>	0° - 180°	0° - 180°
<b>Load Range</b>	3 – 25 W	10 – 300W
<b>Operating Temp Range</b>	0°C to 50°C	-20°C to 50°C
<b>Cable core cross section</b>	0.5 to 1.5 mm <sup>2</sup>	0.5 to 2.5 mm <sup>2</sup>

### Dimensions and Connections

Typical Architecture













#### ATTENTION:

Do not apply any potential to the light bulb connector!

Switch off mains supply before replacing the light bulb.

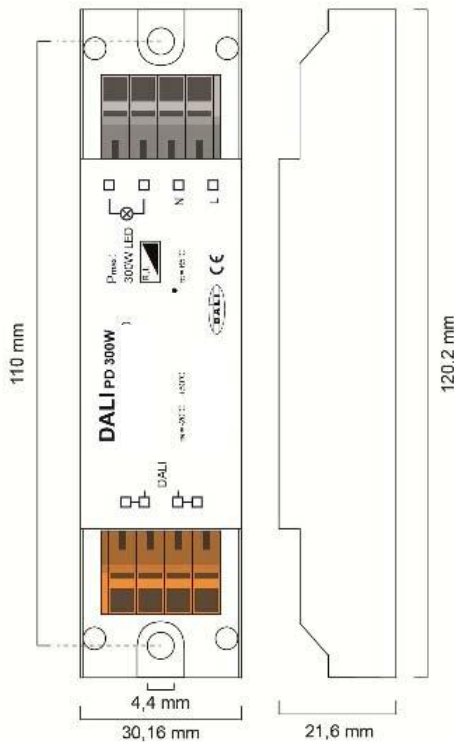
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dimmer type	suitable loads	note
	 	Not suitable for capacitive loads!
	 	Not suitable for inductive loads!
	  	

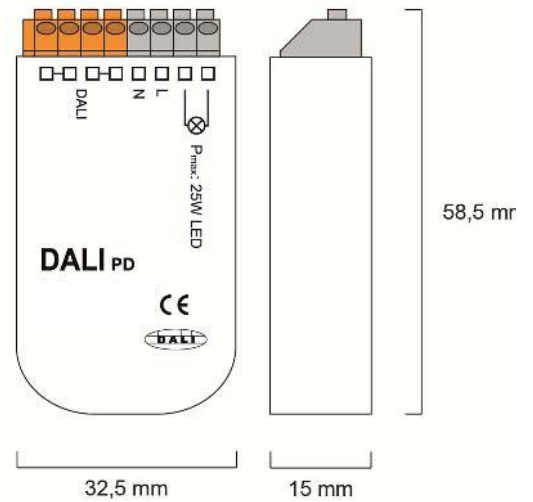
Version **elitedali**.PDLE/  
25 & 300 options

Version **elitedali**.PDTE/  
25 & 300 options

Version **elitedali**.PDLTE/  
25 & 300 options



10 – 300W Versions



3 – 25W Versions

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### DAI Functions

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%.

### DAI Addressing and Configuration

These devices are addressed using the **elitedali** addressing and commissioning tools, see Certified **elitedali** Partner Reference Manuals.

The DALI PD allows the integration of classical dimmable luminaires (phase cut) in DALI systems. It is based on the standard for DALI Control Gear (IEC 62386-102) and Device Type 4 (IEC 62386-205) components. With few exceptions the entire command set defined by the DALI standard is supported.

Commands and functions referring to the SYSTEM FAILURE LEVEL are not supported. In the case of a DALI network failure the PD output automatically fails to 100%.

### Order Details

Description:	Part No:
Trailing Edge Phase Dimmer, 10 - 300W, R, C	elitedali.PDTE/300
Leading/Trailing Edge Phase Dimmer, 10 - 300W, R, L, C	elitedali.PDLTE/300
Leading Edge Phase Dimmer, 10 - 300W, R, L	elitedali.PDLE/300
Trailing Edge Phase Dimmer, 3 - 25W, R, C	elitedali.PDTE/25
Leading/Trailing Edge Phase Dimmer, 3 - 25W, R, L, C	elitedali.PDLTE/25
Leading Edge Phase Dimmer, 3 - 25W, R, L	elitedali.PDLE/25

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Additional **elitedali** compatible DALI products are also available, [click here](#) for more details.

### Contact Details

#### Control Network Solutions Ltd

Studio 7, Intec 2, Intec Business Park, Wade Road  
BASINGSTOKE,  
Hampshire, RG24 8NE, England

Tel: +44 (0) 1256 818700  
Fax: +44 (0) 1256 812520  
Email: [Sales@control-network-solutions.co.uk](mailto:Sales@control-network-solutions.co.uk)  
Web: [elitedali.com](http://elitedali.com)  
Twitter: [twitter.com/elitedali](https://twitter.com/elitedali)  
LinkedIn: [elitedali for Niagara AX Group](#)

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