



Driving greater efficiency with an easy, stand-alone, dimming control

Maximize eHID and LED energy-savings with the **Dynadimmer 0-10V** luminaire-based control for outdoor applications

Dynadimmer 0-10V is a lamp control device that enables high energy savings with low installation efforts. The small, stand-alone, luminaire-based device can drive a 0-10V electronic ballast to functional-demand light levels and does not require an additional switching wire.

The Dynadimmer 0-10V dimming schedule is flexible up to five dimming levels and five time periods. Easy-to-operate software and programming equipment enable end users to re-program dim times and levels when and as they wish. Offering energy-efficiency and flexibility, the Dynadimmer 0-10V control is ideal for residential, roadway, parking and industrial applications.

The Dynadimmer 0-10V solution offers:

- Energy savings through dimming
- Reduced light nuisance
- Very small size, fits inside almost any luminaire
- Software provides a forecast of energy savings
- Easy-to-use software

PHILIPS

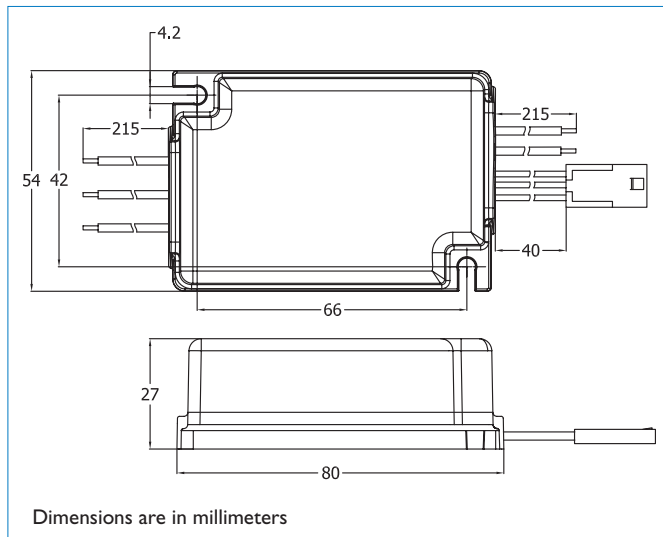
Hanover
LANTERN
sense and simplicity

Applications

Each Dynadimmer 0-10V can control a driver-lamp combination in a stand-alone manner. It is designed for use in residential, street and road lighting applications, including parking lots, roadway, residential and in industrial complexes. The design of the Dynadimmer 0-10V is optimized for mounting in a luminaire.

Dynadimmer 0-10V is designed to interact with Philips Advance 0-10V drivers and is compatible with dimmable drivers with a standard 0-10V interface. Compatible with eHID and LED solutions, it features a galvanic separation between the 0-10V output and mains input.

Dimensions



General Operation

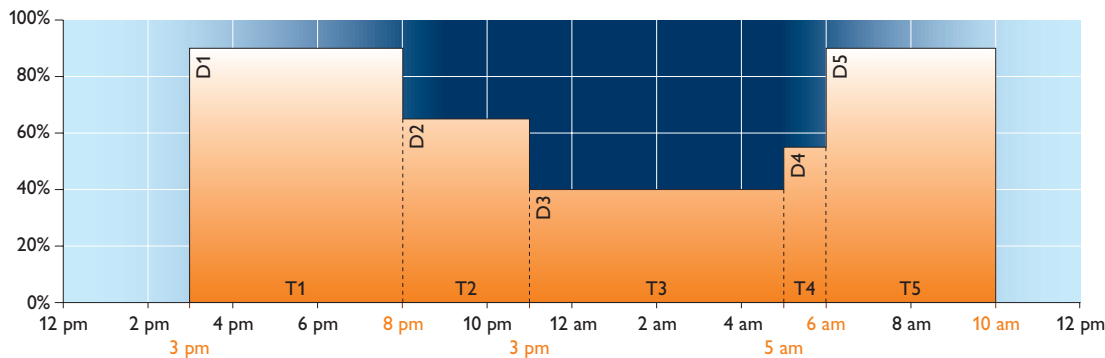
A dimming schedule is easily created within the Dynadimmer software. This easy to use software enables the user to obtain not only a quick dimming shape configuration, but also a forecast of energy savings. The dimming schedule may be fine-tuned by means of a USB PC cable, programmed into each individual Dynadimmer 0-10V.

The Dynadimmer 0-10V has no internal clock and uses a midnight point calculation to determine the absolute time.

The midnight point is calculated as the middle point between switch on and switch off.

Depending on the selected location, a time is allocated to this midnight point. The Dynadimmer 0-10V needs two nights to check the consistency of the duration of both nights.

The dimming schedule will start to operate on the third night after installation.



Example of custom dimming schedule using Dynadimmer

Technical Data

Storage Conditions

Temperature	min -40° C /max +80° C
Relative Humidity	min 5% / max 95% RH

Operating Conditions

Ambient Temperature	min -30° C /max +60° C
Case Temperature	80° C
Relative Humidity	min 10% / max 90% RH (no condensation)

Mains Connection

Operational Voltage	120-277V ± 10%
Frequency	50/60mHz ± 5%
Maximum Load	Not Applicable

Mains / 1-10v Connections

Connectot Type	WAGO 250 Cage Clamp
Driver per Dynadimmer 1-10v	2 max.
Wire Range	18 gauge
Wire Strip Length	203 mm
Power Consumption	0.5W at 220VAC/60Hz

Dim Interface

Control Voltage	0-10V
Max. Current	0.3mA sinking
Dim Curve	Defined by selected driver
Protection	Protected against accidental connection with mains voltage
Output Impedance	2700 ohm

Housing

Protection Class	Tested to IP66
Dimensions (H x W x L)	25 mm x 54 mm x 80 mm
Weight	0.085 Kg
Material	PC-GE LEXAN 223R-111
Color	Black
Glow Wire Test	≥ 850° C at 1 mm material thickness
Flammability	UL94-V2 at 0.75 mm material thickness UL94-V0 at 6 mm material thickness
Fixation	M8 x 16 bold (class 8.8) or 2 x M4 screw with cylinder head

The Dynadimmer is designed to be built into a luminaire, a box, an enclosure, or the like and is not intended to be mounted outside a luminaire, etc. without special precautions.

The Dynadimmer housing provides insulation for class 2.

Safety

1-10V Interface	The interface is double (0-10V) isolated from the mains supply (4KV routine test for transformer)
Programming Interface	The interface is double (0-10V) isolated from the mains supply (4KV routine test for transformer)



Warning

Mains need to be disconnected before connecting the programmer.

PHILIPS

Hanover
LANTERN

www.hanoverlantern.com

100 Craftway Drive, P.O. Box 128, Littlestown, PA 17340
Phone: 717-359-7131 • Fax: 717-359-8715

PL-1131-1112-PDF