

PDEG

Ethernet Gateway



Specification Sheet

Gateways > Network Gateways



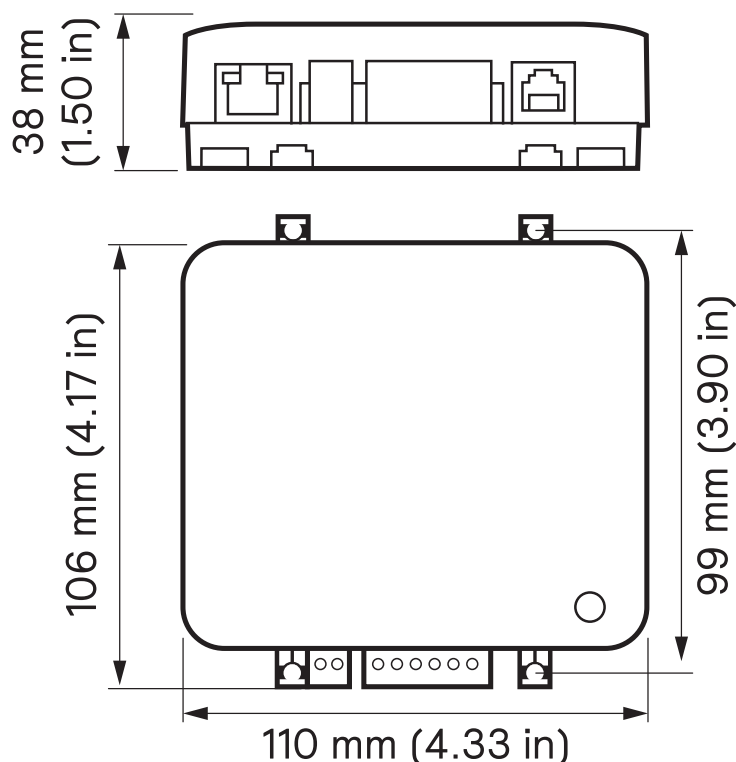
Flexible Ethernet integration

The Dynalite PDEG provides a multipurpose Ethernet connection to the Dynalite lighting control system, and supports access to the lighting system via a dedicated app, as well as providing a web interface to the inbuilt timeclock and schedule editor functions and bridging functionality between an Ethernet backbone and DyNet devices.

Key Features

- **Large storage capacity** – Stores large project files internally for app auto-configuration. This saves configuration time and ensures accuracy for phone and tablet control.
- **Built-in web server** – Provides control and status via Common Gateway Interface (CGI) protocol. Allows authenticated users to edit and check system settings via the Network Hardware Checker and System Roll Call tools.
- **Secure access** – Employs HTTPS for secure, encrypted network communication
- **Network routing** – Functionality includes address offset and message filtering/translation.
- **Scheduled event management** – Inbuilt timeclock, schedule manager, sunrise/sunset tracking, and automatic daylight saving adjustment allow the user to manage operation and task scheduling without advanced technical knowledge.
- **Powerful custom task engine** – Enables users and third-party systems to run macros such as 'After Hours', 'Shut Down', 'Welcome', and more.
- **Advanced interoperability** – Supports management of Dynalite systems, Philips PoE fittings, and Philips Hue lamps and bridges on a single system.
- **Third-party integration** – Capable of direct communication with specialised hospitality and building automation systems such as VingCard Elsafe, CoolAutomation, Oracle Fidelio, and others.
- **Day Rhythm** – Supports up to five colour temperature curves to simulate the intensity and colour temperature of natural daylight throughout the day. Different curves can be assigned to different seasons or specific days as required (Requires DALI 209 compatible dimming controller).
- **Versatile mounting options** – Hybrid mounting clips support installation in a DIN rail enclosure or on any flat surface.

Dimensions



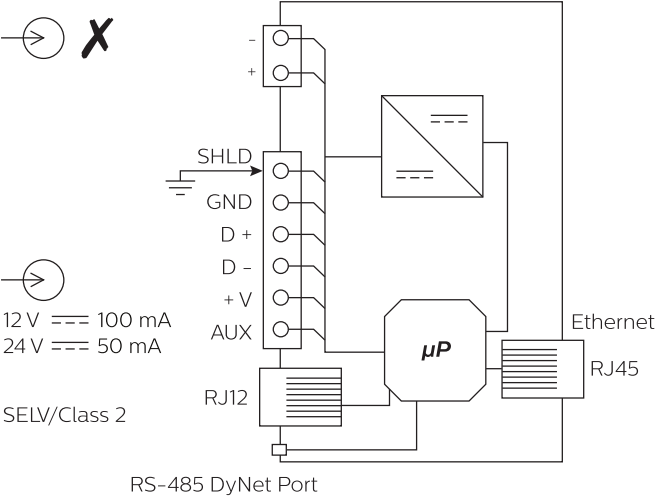
Specifications

Electrical	
Supply Type	DyNet OR External regulated DC supply (SELV/Class 2)
Supply Voltage	12-24 VDC (power supply voltage must match network voltage)
DC Supply Current	300 mA @ 12 V 250 mA @ 24 V
DyNet Supply Current	100 mA @ 12 V 50 mA @ 24 V
DyNet DC Output Current	200 mA (if powered by external SELV/Class 2 supply)
IEC Overvoltage Category	III
Physical	
Dimensions	106 x 110 x 38 mm (4.17 x 4.33 x 1.50 in)
Packed Weight	0.21 kg (0.46 lb)
Construction	Low-profile DIN rail polycarbonate (6 unit)
Communication Ports	1 x RJ45 1 x RJ12 1 x 6-way pluggable screw terminal
Communication Terminal Conductor Size	0.3-2.5 mm² (#22-12 AWG)
Supply Terminals	1 x 2-way pluggable screw terminal
Supply Terminal Conductor Size	0.3-2.5 mm² (#22-12 AWG)
Environment	
Operating Temperature	-20° to 50°C ambient (-4° to 122°F)
Storage Temperature	-25° to 70°C ambient (-13° to 158°F)
Relative Humidity	≤90% non-condensing
IEC Pollution Degree	II
Installation Note	For indoor installation only
Control	
Communication Ports	1 x RS-485 1 x Ethernet (10/100 baseT)
Supported Protocols	DyNet / DyNet2 DMX TCP/IP (TCP, UDP, IPv4/IPv6) HTTP / HTTPS / FTP / CGI / Telnet
Dry Contact Inputs	1 (AUX)
Clock Features	365 day clock Lithium backup battery Sunrise/sunset tracking Automatic daylight saving adjustment 250 timed events 64 tasks
Storage Capacity	16 MB XML file storage max (28-day rolling network log)
User Controls	1 x service switch
Indicators	1 x service LED 2 x Ethernet status LED
Compliance	
Certifications	CE, RCM, UL/cUL, FCC, ISED, UKCA, RoHS

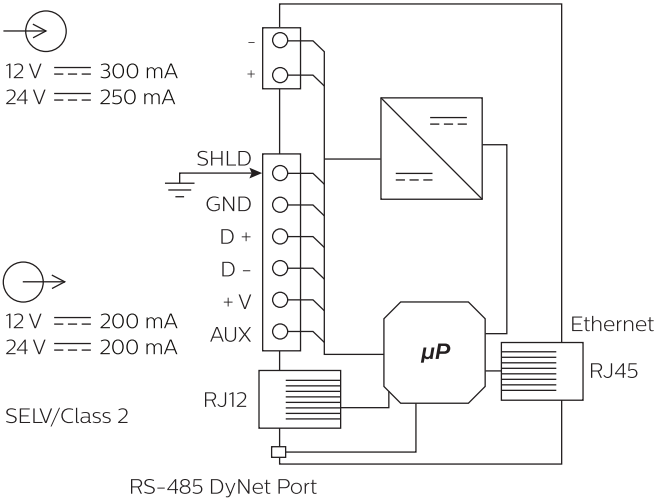


Electrical Drawing

DyNet Supply



DC Supply



Ordering Codes

Product	12NC
PDEG	913703013809

Accessory		12NC
DDNP1501	Network Power Supply	913703130509

Policies and Notices

Specific Data Notice

This Specific Data Notice applies to the Ethernet gateway as specified in this product specification sheet (the "**Ethernet gateway**") that is part of or works with a Professional System offered by Signify for use in the European Union and supplements and/or corrects the Generic Data Notice For Professional Systems and Services that can be found at <https://www.signify.com/global/resources/policies-announcements> (the "**Generic Data Notice**") by providing additional and/or more specific details specific to this Ethernet gateway.

Terms starting with a capital in this Specific Data Notice will have the meaning as attributed thereto in the Generic Data Notice, unless explicitly defined otherwise in this document.

When used in a Signify professional lighting system in combination with a Dynalite Gateway with either the Dynalite Switch App, Dynalite System Builder, Dynalite System Manager, or Dynalite Cloud, the Ethernet gateway can generate the Data as specified below:

- Lighting control commands including configuration commands and collected metrics from devices within the connected network(s). When configured to do so, the gateway can stream these network messages to Dynalite System Manager. The Gateway can actively poll capable devices in the DyNet network for their online status, burning hours, consumed energy, consumed power, and device failures.
- Motion event count, temperature, humidity, lux level, driver status from capable sensors in the DyNet network reported as per configuration

The type and volume and format of Data that is generated depends on the actual devices used in the network, the product and/or software configuration. For further details on data generation capabilities of such devices, please check the product specification sheets of such devices.

The Data generated in this combination is communicated via the network to the gateway and is stored on the gateway. If configured to do so, the gateway can forward the Data to Dynalite Cloud or to Dynalite System Manager. For applicable retention period and means of access to Data that is Readily Available Data, please refer to the Dynalite Cloud software specification sheet. Data can be accessed from the Gateway using Dynalite System Builder or directly from any of the APIs of the Gateway. The Gateway will persist the Data for 28 days on a rolling basis.

This Specific Data Notice may be changed by Signify from time to time. The current version of this notice will apply and can be obtained at request via the point of contact as indicated in paragraph 7 of the Generic Data Notice.