

PDDEG-S

Ethernet Gateway – Supervisor



Specification Sheet

Gateways > Network Gateways



Secure remote connection to the Dynalite System

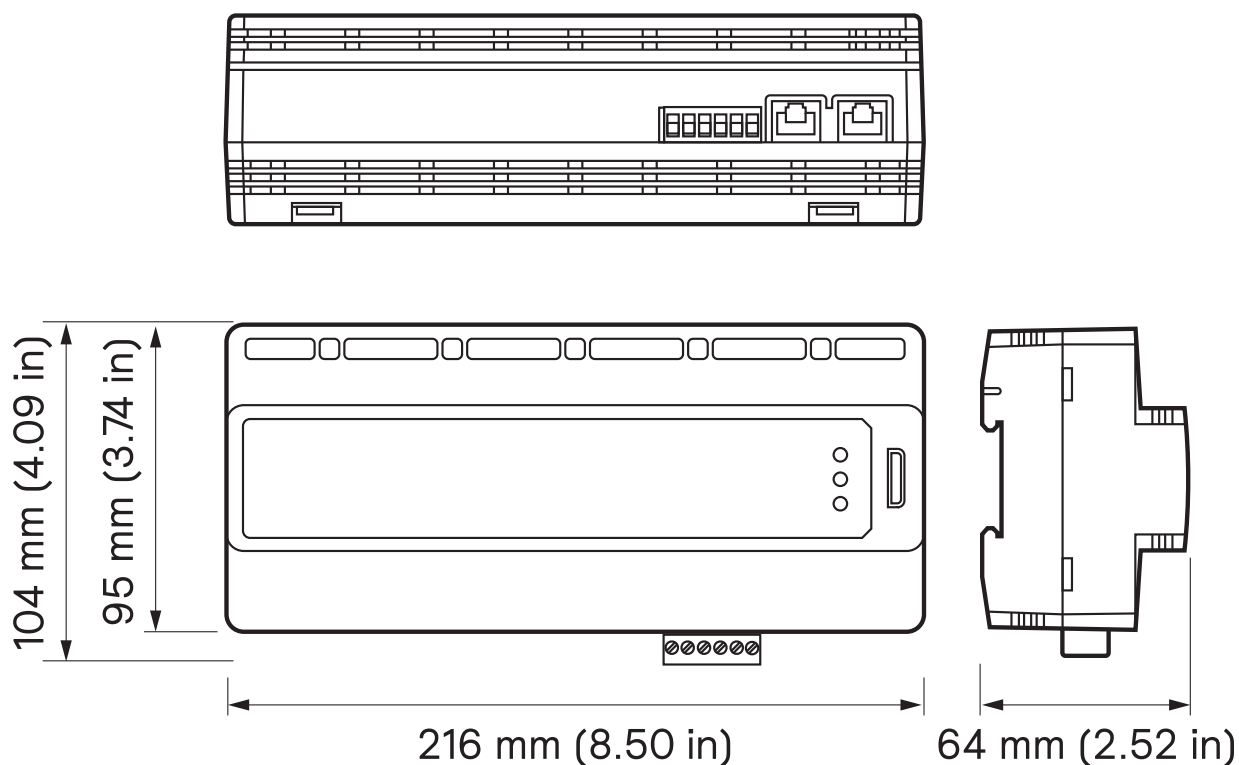
The Dynalite PDDEG-S provides gateway services between Ethernet and DyNet devices, enabling secure online access to the Dynalite lighting control system.

The gateway enables lighting control via a dedicated Dynalite app, and access to the timeclock, schedule editor, and diagnostic functions via an inbuilt webserver.

Key Features

- **System supervisory functions** – Includes online/offline status reporting for connected devices, network traffic logging, secure remote firmware update, and lighting control metrics. Inbuilt timeclock and schedule manager support automated operations and task scheduling.
- **Multiple integration options** – Supports TCP/UDP, IPv4/IPv6, unicast/multicast/broadcast, DyNet1, DyNet2, Fidelio, BACnet (see Ordering Codes for license options), and 'Text and Binary Integration' protocols. Capable of supporting hundreds of concurrent socket connections.
- **Flexible connectivity** – Provides secure cloud connectivity to the building with user-configurable routing and a range of RS-485 and Ethernet bridging functions.
- **Powerful custom task engine** – Allows users or third-party systems to run macros such as 'After Hours', 'Shut Down', 'Welcome', and more.
- **Web server and app access** – Enables remote access to lighting control, schedule editing, and device configuration.
- **Secure connection to Dynalite controllers** – Each PDDEG-S supports encrypted communication with up to 25 Ethernet-equipped controllers, including the DDBC320-DALI and DDRG-GRMS-E.
- **Flexible mounting** – DIN rail mounting clips designed for installation into a distribution board or electrical enclosure.

Dimensions



Specifications

Electrical	
Supply Type	Single-Phase
Supply Voltage	100-277 VAC
Supply Current	250 mA
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	300 mA
IEC Overvoltage Category	III

Control	
Communication Ports	1 x RS-485 2 x Ethernet (10/100 baseT)
Supported Protocols	DyNet (Port 1 only) TCP/IP (IPv4, IPv6) BACnet (requires license)
Dry Contact Inputs	1 (AUX)
User Controls	1 x service switch
Indicators	1 x Service LED 2 x Ethernet LED 1 x Cloud LED

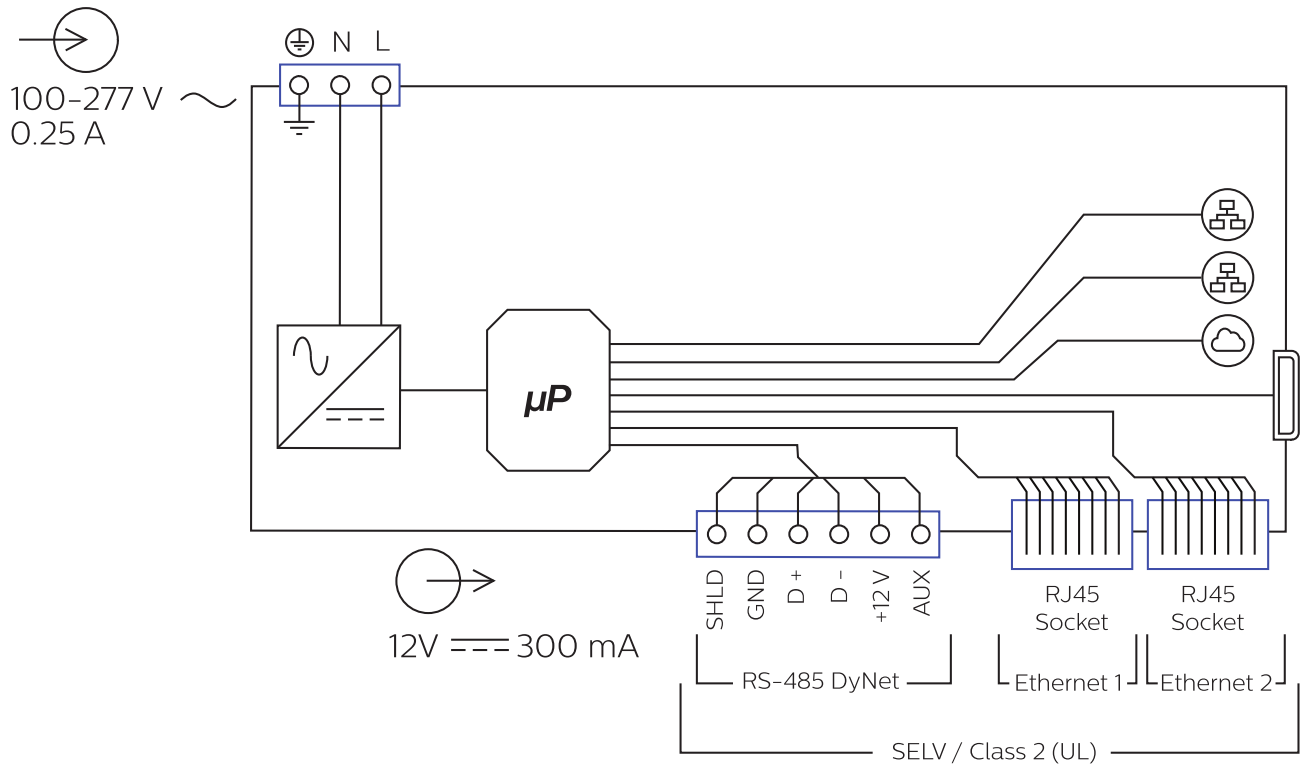
Physical	
Dimensions	95 x 216 x 64 mm (3.74 x 8.50 x 2.52 in)
Packed Weight	0.45 kg (0.99 lb)
Construction	Polycarbonate DIN rail case (12 unit)
Communication Ports	2 x RJ45 1 x 6-way pluggable screw terminal
Communication Terminal Conductor Size	0.3-2.5 mm² (#22-12 AWG)
Supply Terminals	3 x screw terminal
Supply Terminal Conductor Size	0.2-5 mm² (#24-10 AWG)

Environment	
Operating Temperature	0° to 50°C ambient (32° to 122°F)
Storage/Transport 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

Compliance	
Certifications	CE, RCM, UL/cUL, FCC, UKCA, RoHS, ISED, BACnet ISO 16484-6



Electrical Drawing



Ordering Codes

Product	12NC
PDDEG-S	913703371509

BACnet License	12NC
PDDEG-S BACnet 500 point license	SW913703370509
PDDEG-S BACnet 1k point license	SW913703370609
PDDEG-S BACnet 5k Point license	SW913703370709
PDDEG-S BACnet 10k Point license	SW913703370809

Policies and Notices

Specific Data Notice

This Specific Data Notice applies to the gateways as specified in this product specification sheet (the "**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 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 either the Dynalite Switch App, Dynalite System Builder, Dynalite System Manager, or Dynalite Cloud, the 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 forward all collected network messages every 20 minutes to the Dynalite Cloud, or stream these network messages to Dynalite System Manager or report specific events to BACNet. 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.