



DDNG485

RS-485/DMX512 Gateway

Flexible network communications gateway

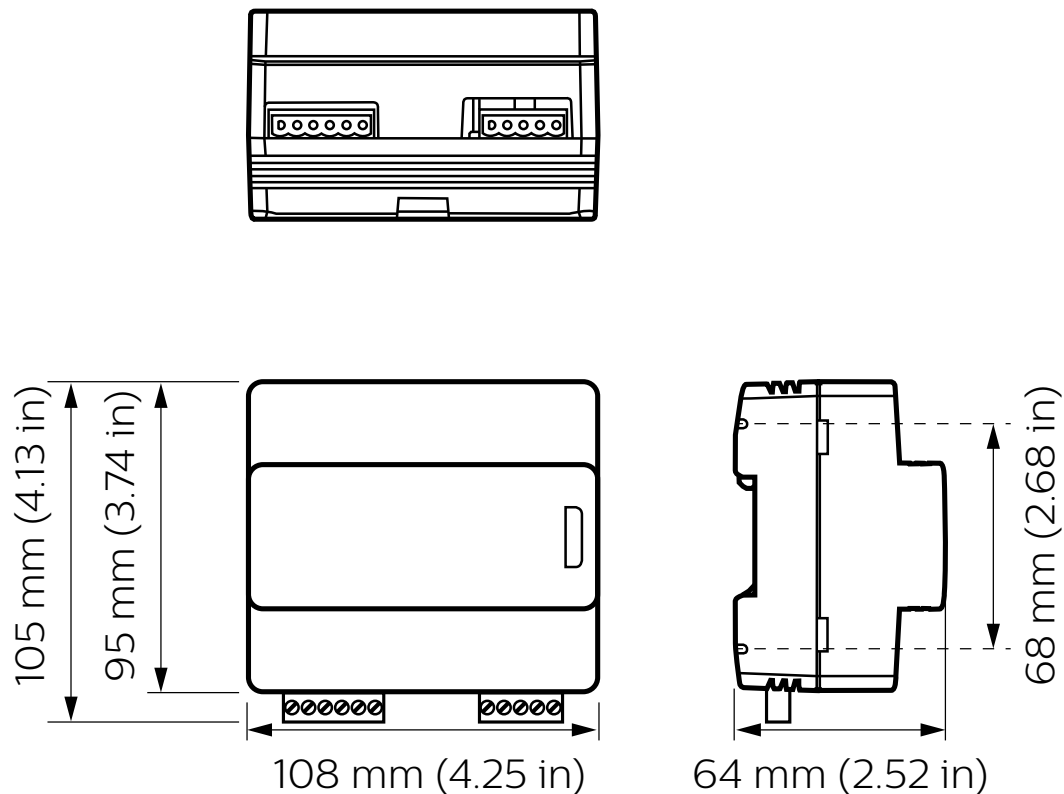
The Philips Dynalite DDNG485 is a flexible network communications bridge designed for RS-485 networks. The two optically isolated RS-485 ports enable the DDNG485 to implement a trunk and spur topology on large project sites, with the bridge providing a high-speed backbone optically coupled to many lower-speed spurs.

DDNG485

Flexible network communications gateway

- **Route DyNet to third-party systems** – Such as audio-visual, Modbus meters, and building automation systems, providing an integrated approach to total building control and energy management.
- **DMX512 mode** – Transmit or receive up to 512 channels of DMX with automatic DyNet conversion and task triggering. Provides temporary control of house lights from the DMX console in an auditorium scenario.
- **Electrical fault isolation** – Faults can be isolated to individual network spurs.
- **Internal controls** – Programmable logic controller capable of comprehensive conditional and sequential logic and arithmetic function processing, packet filtering, and DyNet to DyNet 2 translation.
- **Flexible mounting solution** – DIN rail mountable, designed to be installed into a distribution board or other electrical enclosure.

Dimensions



Specifications

Due to continuous improvements and innovations, specifications may change without notice.



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Electrical

Supply Voltage (DyNet Port 1)	12-24 VDC SELV / Class 2 (UL)
Supply Current	70 mA + (1.6 x DyNet Port 2 load current) @ 12 VDC 60 mA + (0.7 x DyNet Port 2 load current) @ 24 VDC
Serial Port Isolation	Optical (3.75 kV RMS)
Output Voltage (DyNet Port 2)	12 VDC
Output Current	200 mA (max) SELV / Class 2 (UL)
IEC Overvoltage Category	III

Control

Communication Ports	Port 1: RS-485 (9,600- 115,200 bps) Port 2: RS-485 (9,600- 250,000 bps)
Supported Protocols	Port 1: DyNet Port 2: DyNet, DMX, Modbus
DMX Tx/Rx Channels	512
Dry Contact Inputs	1 x AUX SELV / Class 2 (UL)
User Controls	1 x service switch
Indicators	1 x service LED
Diagnostic Functions	Device online/offline status

Physical

Dimensions (H x W x D)	95 x 108 x 64 mm (3.74 x 4.25 x 2.52 in)
Packed Weight	0.22 kg (0.49 lb)
Construction	G3.1-style plastic DIN rail enclosure (6 unit)
Communication Ports	1 x 6-way pluggable screw terminal 1 x 5-way pluggable screw terminal
Communication Terminal Conductor Size	0.3 - 2.5 mm ² (22 - 12 AWG)

Environment*

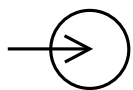
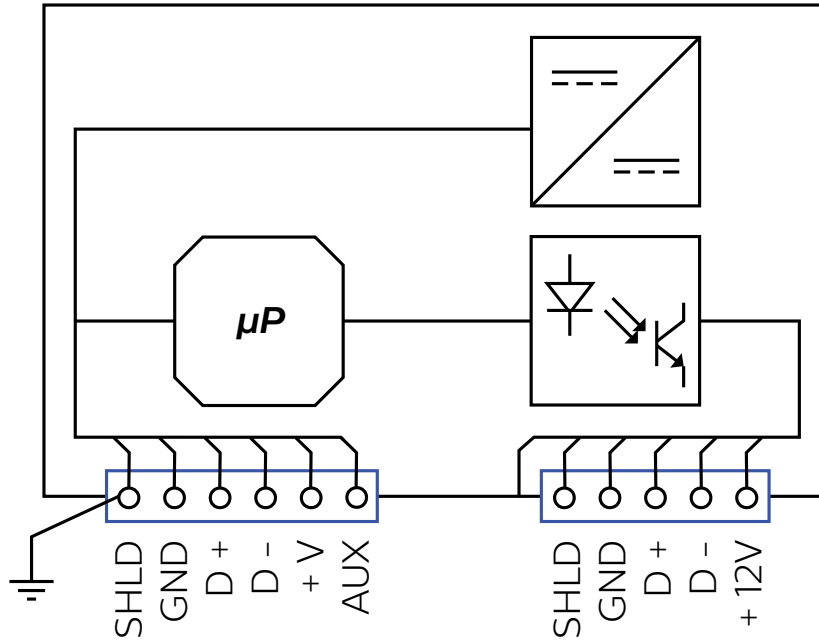
Operating Temperature	0° to 50°C ambient (32° to 122°F)
Storage/Transport Temperature	-25° to 70°C ambient (-13° to 158°F)
Relative Humidity	0 to 90% non-condensing
IEC Pollution Degree	II

Compliance

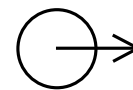
Certification	CE, RCM, UL/cUL, FCC, ICES, UKCA, RoHS
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- * Install in a dry indoor well-ventilated location only
Minimum 45 mm top and bottom clearance

Electrical



70 mA +(1.6 x DyNet Port 2 load current) @ 12 V



12 V 200 mA

60 mA +(0.7 x DyNet Port 2 load current) @ 24 V

SELV/Class 2 (UL)

Ordering Code

Product

DDNG485

Philips 12NC

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Revision 07 – 2024-01-16