



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.

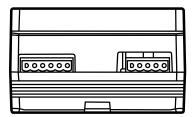
DDNG485

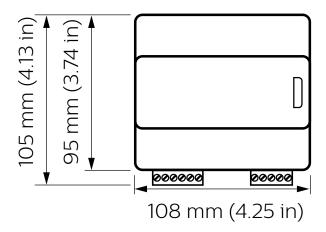
Flexible network communications gateway

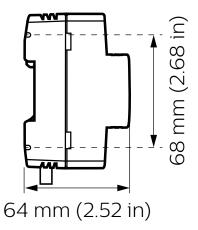
- Route DyNet to third-party systems Such as audiovisual, Modbus meters, and building automation systems, providing an integrated approach to total building control and energy management.
- DMX512 mode Transmit or receive up to 512 channels of DMX with automatic DyNet conversion and task triggering.
 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.
- * The DDNG485 supports a maximum of 32 DyNet presets.

- 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	, ,	Port 2 load current) @ 12 VDC 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 Categ	jory	III

Control	
Communication Ports	Port 1: RS-485 (600-115,200 bps) Port 2: RS-485 (600-250,000 bps)
Supported Protocols	Port 1: DyNet Port 2: DyNet, DMX, Modbus
DyNet Presets	32
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	1×6 -way pluggable screw terminal 1×5 -way pluggable screw terminal
Communication Terminal Condu	uctor Size 0.3 - 2.5 mm² (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

CE, NCIVI, UL/CUL, FCC, ICE3, UNCA, NOF	Certification	CE, RCM, UL/cUL, FCC, ICES, UKCA, RoH
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Install in a dry indoor well-ventilated location only Minimum 45 mm top and bottom clearance

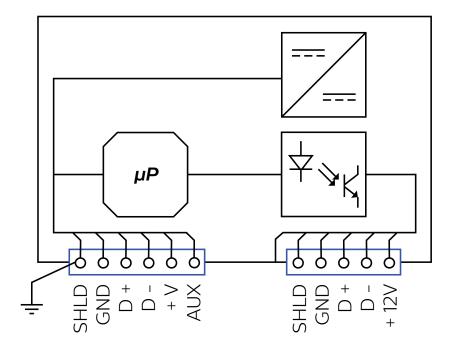






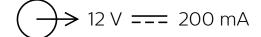


Electrical





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



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

SELV/Class 2 (UL)

Ordering Code

Philips 12NC **Product** DDNG485 913703366709

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