

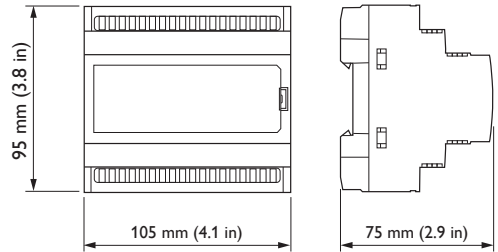
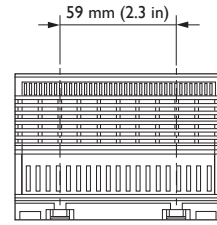


# DDNG485-NA Network Gateway

## Flexible network communications gateway for DyNet RS-485 networks

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

- Electrical fault isolation — Faults can be isolated to individual network spurs.
- Route DyNet to third-party systems — Such as audio-visual and building automation systems, providing an integrated approach to total building control and energy management.
- DMX512 mode — Transmit or receive up to 64 channels of DMX512, with automatic DyNet conversion and task triggering. Provides temporary control of house lights from the DMX512 console in an auditorium scenario.
- Internal controls — Including programmable logic controller capable of assembly and transmission of user-defined data strings.
- Flexible mounting solution — DIN-rail mountable, designed to be installed into a distribution board or other electrical enclosure.



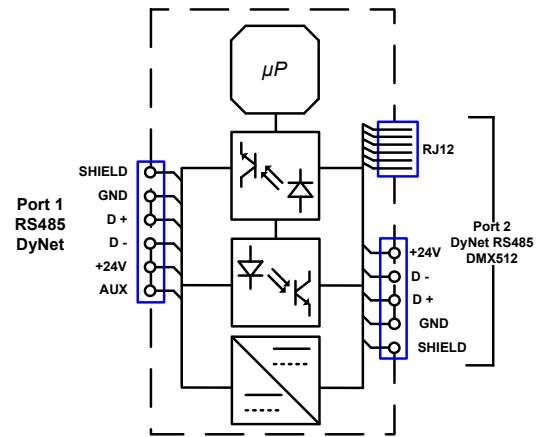
For detailed product information, please refer to the product information pages at [www.philips.com/lightingcontrolsna](http://www.philips.com/lightingcontrolsna).

# Specifications

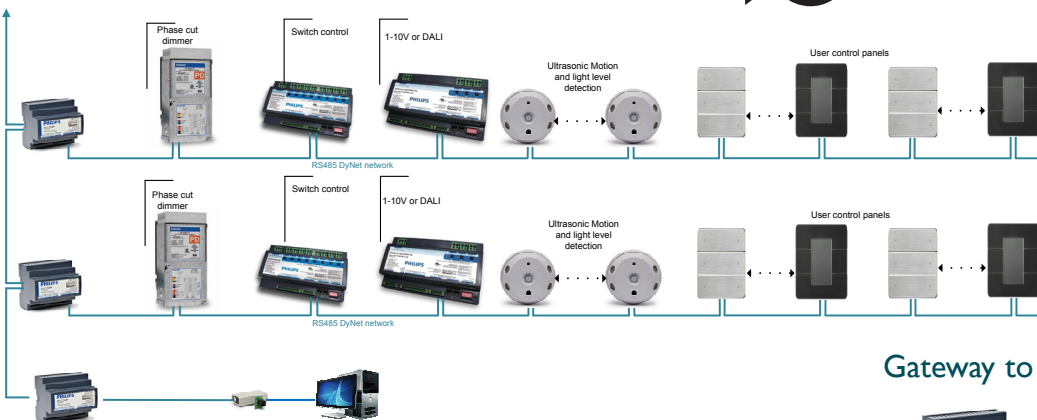
Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	Details
Electrical	DyNet DC Voltage	330 mA max. @ 24VDC fed via Port 1, max. load on Port 2 24VDC out: 150 mA
Control	Control Ports	Two RS-485 DyNet serial ports
	Serial Port Isolation	2.5 KV RMS optical isolation between ports
	User Controls	Service switch Diagnostic LED
	DMX512 Support	DMX512 Receive: 64 slots DMX512 Transmit: 64 slots
	Diagnostic Functions	Device Online/Offline status* *EvisionManager, MapView, Touchscreen or BAS interface required for analyzing diagnostic data
Serial Port Terminals	Port 1 (input):	SHLD, GND, D+, D-, +24V 1 x 14 AWG or 2 x 18 AWG max conductor size
	Port 2 (output):	SHLD, GND, D+, D-, +24V 1 x 14 AWG or 2 x 18 AWG max conductor size, 1 x RJ45 jack for plug in connection
	Dimensions (H x W x D)	3.8" x 4.1" x 2.9" (95 mm x 105 mm x 75 mm)
	Packed Weight	0.55 lbs (0.25 kg)
	Construction	Polycarbonate DIN-rail enclosure (6 unit)
	Operating Conditions	Temperature: 32 to 122° F (0 to 50° C) ambient Humidity: 0 to 90% non-condensing
	Storage & Transport	Temperature: -13 to 140° F (-25 to 60° C) ambient Humidity: 0 to 90% non-condensing
Certification	Certification	ICES, FCC, RoHS Compliant
Options & Ordering	Standard Product	DDNG485-NA (Philips 12NC - 913703581009)

# Electrical Diagram



# Network Topology Example



# Gateway to Gateway



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