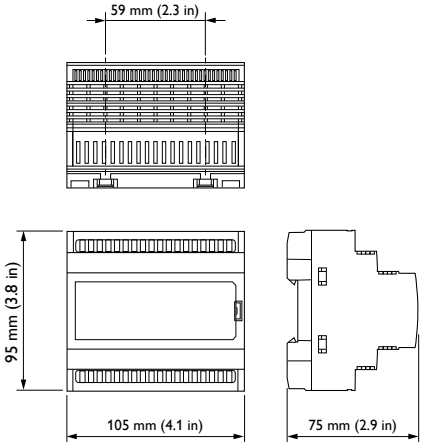
DDNG485 Network Gateway

Flexible network communications gateway for DyNet RS-485 networks

The Philips Dynalite DDNG485 is a flexible network communications bridge designed for RS-485 networks. The two opto-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 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/dynalite and follow the links.

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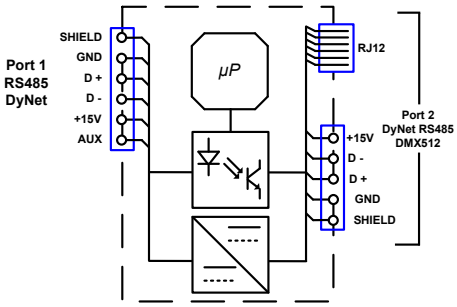
Specifications

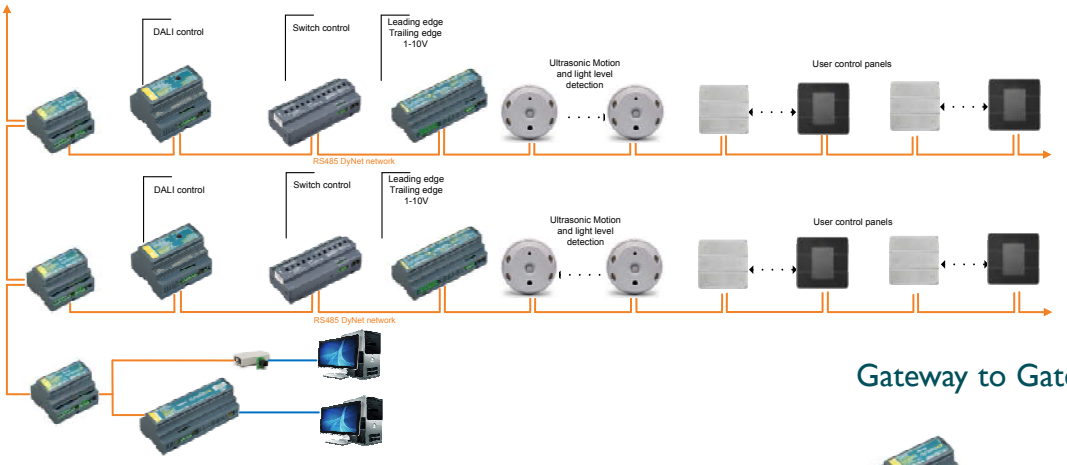
Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	Details
Electrical	Input Voltage	12 VDC max, 375 mA from the DyNet network (port 1)
Control	Control Ports	Two RS-485 DyNet / DyNet II serial ports
	Serial Port Isolation	3.75 KV RMS optical isolation between ports
	User Controls	Service switch Diagnostic LED
	Internal Controls	Programmable Logic Controller - 64 tasks
	DMX512 Support	DMX512 Receive: 64 channels DMX512 Transmit: 64 channels
	Diagnostic Functions	Device Online/Offline status
Physical	Supply Terminals	Line, Neutral 1 x 4 mm² max conductor size Earth link bar provided
	Serial Port Terminals	Serial Port 1: SHLD, GND, D+, D-, +12 V 1 x 2.5 mm² max conductor size Serial Port 2: SHLD, GND, D+, D-, +12 V 1 x 2.5 mm² max conductor size 1 x RJ12 socket for plug in connection
	Dimensions (H x W x D)	95 mm x 105 mm x 75 mm (3.8" x 4.1" x 2.9")
	Packed Weight	0.25 kg
	Construction	Polycarbonate DIN-rail enclosure (6 unit)
	Operating Conditions	Temperature: 0 to 50° C ambient Humdity: 0 to 90% non-condensing
	Storage & Transport	Temperature: -25 to 60° C ambient Humidity: 0 to 90% non-condensing
Certification	Certification	CE, C-Tick
Options & Ordering	Standard Product	DDNG485 (Philips 12NC - 913703081209)

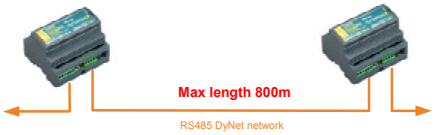
Electrical Diagram



Network Topology Example



Gateway to Gateway



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