



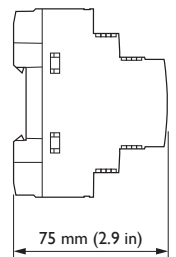
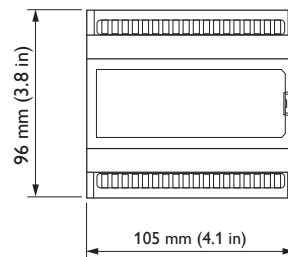
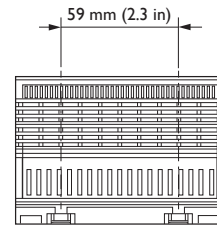
# DDBC I20-DALI

## MultiMaster DALI Driver Controller

Providing a full universe of 64 DALI addresses

The DDBC I20-DALI delivers cost-effective control of up to 64 DALI lamp drivers and 10 DALI sensors/switches (see table overleaf). This device is compatible with all Philips Dynalite DALI user interfaces.

- DALI MultiMaster solution — Compatible with a range of DALI fittings and devices including; DALI HF fluorescent drivers, DALI electronic low voltage transformers, DALI LED fixtures, DALI emergency lighting fixtures and Philips Dynalite DALI sensors and user interfaces.
- Compatible with DALI 209 drivers — Provides control of tunable white luminaires.
- Fully scalable network solution — Direct mapping from DALI to the Philips Dynalite DyNet network protocol eliminates DALI imposed limits, such as maximum group sizes.
- Dual functionality — Leverage advantages of a true DALI network solution, whilst still allowing full function set of DyNet network control.
- Flexible mounting solution — DIN rail mountable device, designed to be installed into the distribution board supplying power to the controlled lighting circuit.
- Integral DALI bus power supply — Removes the need for provision of a separate external power supply and reduces distribution board wiring complexity.
- Inbuilt diagnostic functionality — Features lamp and driver failure reporting, driver run time tracking for each driver, emergency test reporting and Device Online/Offline status indication.



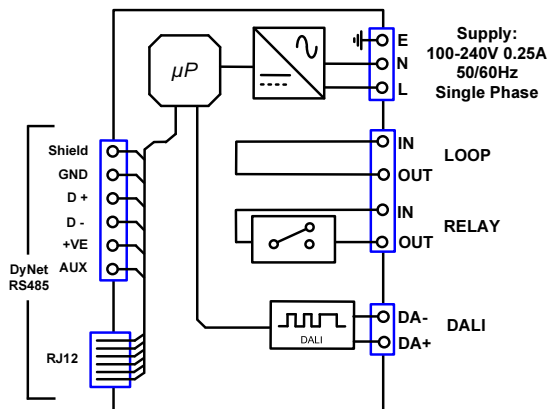
For detailed product information, please refer to the product information pages at [www.philips.com/dynalite](http://www.philips.com/dynalite) and follow the links.

## Specifications

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

Item	Specification	Details
Electrical	Input Voltage	100 - 240 VAC 50 / 60 Hz Single Phase @ 0.25 A IEC Overvoltage Category III (Max. 4 kV surge)
	DyNet DC Supply	12 VDC @ 120 mA (supply for approx 6 user interfaces)
	Outputs	1 x DALI control output, supporting one full DALI universe of 64 addresses, including back channel and communication to Philips Dynalite DALI sensors and user interfaces
	Power Relay	1 x feed-through switched circuit rated 20 A (500 A surge) @ 250 VAC
	Bus Power Supply	Inbuilt DALI bus power supply rated 220 mA @ 16 VDC Up to 64 drivers and/or up to 16 user interfaces (see table) Maximum current 250 mA
	Control	DALI Insulation System
Control Inputs/Outputs		One RS-485 DyNet serial port One programmable dry contact AUX input
User Controls		Service switch Diagnostic LED
Preset Scenes		64
Diagnostic Functions*		Lamp failure reporting Driver failure reporting Driver run time tracking for each driver and the switched output Emergency test reporting Device online/offline status  * EvisonManager interface required for analyzing diagnostic data. The availability of some diagnostics is dependent on driver type.
Physical	Supply Terminals	Line, Neutral, Earth 1 x 4 mm <sup>2</sup> maximum conductor size
	Output Terminals	1 x DALI driver circuit: DA -, DA + 1 x 1.5 mm <sup>2</sup> maximum conductor size
	Dimensions (H x W x D)	96 mm x 105 mm x 75 mm (3.8" x 4.1" x 2.9")
	Packed Weight	0.45 kg
	Construction	Polycarbonate DIN-rail enclosure (6 unit)
	Operating Conditions	Temperature: -25 to 50°C ambient Humidity: 0 to 90% non-condensing IEC Pollution Degree II
	Storage & Transport	Temperature: -25 to 60°C ambient Humidity: 0 to 90% non-condensing
Certification	Certification	CE, RCM, IEC62386
Options & Ordering	Standard Product	DDBC120-DALI-V4 (Philips I2NC - 913703685109)

## Electrical Diagram



## Maximum DALI Device Count

Maximum number of sensors/switches	Maximum number of DALI drivers
10	64
11	59
12	54
13	49
14	44
15	39
16	34



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