

DMBC110

Signal Dimmer Controller



Specification Sheet

Controllers > DALI Controllers



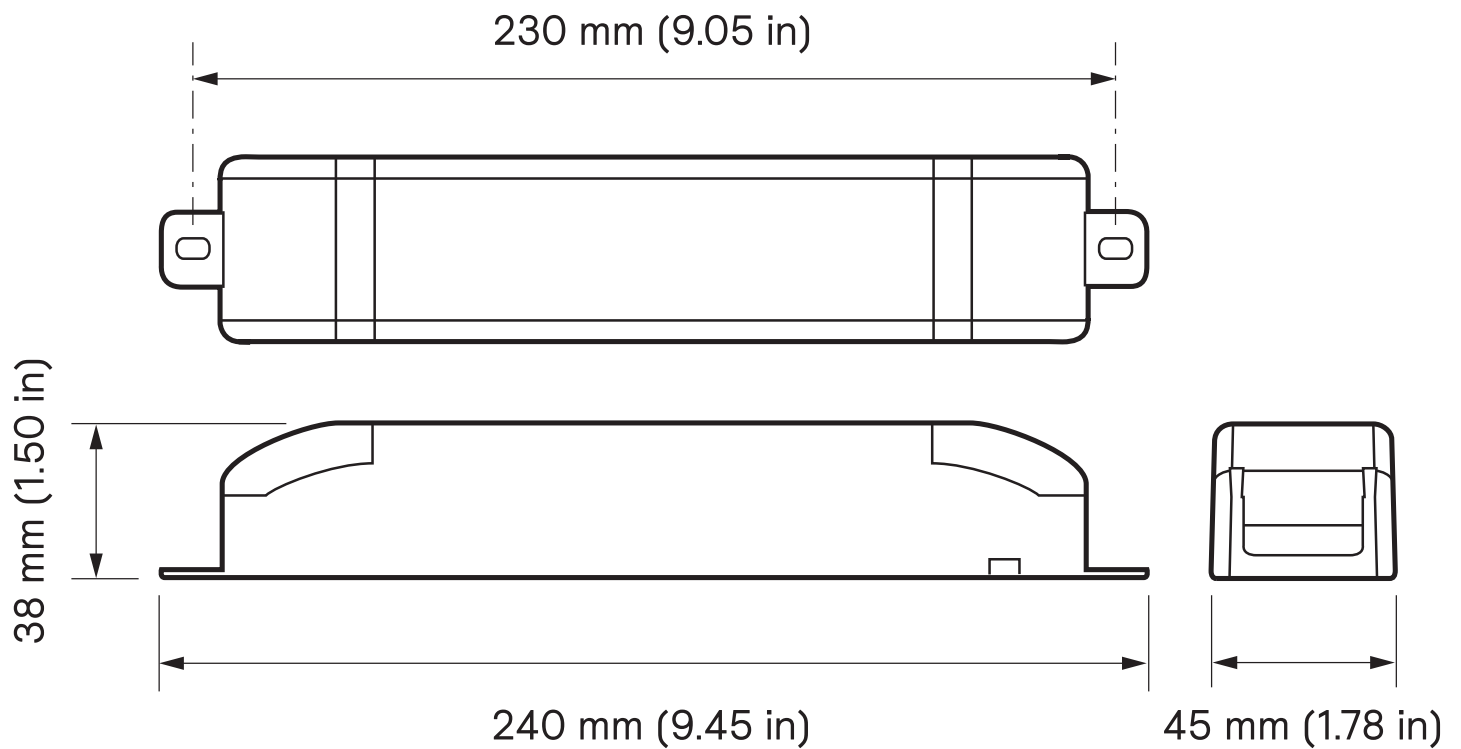
Luminaire-mount multi-protocol control solution

The Dynalite DMBC110 provides intelligent networked control of individual lighting fixtures. The compact design enables mounting directly within the gear enclosure of many fixtures.

Key Features

- **Incorporates one relay output and one signal dimmer output** – Provides dimming control of DALI, 1-10 V, and DSI compatible drivers and transformers.
- **Gear enclosure mounting** – Compact design enables mounting directly within the gear enclosure of many light fixtures.
- **Fully rated device** – Robust relay provides reliable control of difficult lighting loads.
- **Inbuilt diagnostic functionality** – Device Online/Offline status indication.

Dimensions



Specifications

Electrical		Physical	
Supply Type	Single-Phase	Dimensions	38 x 240 x 45 mm (1.50 x 9.45 x 1.78 in)
Supply Voltage	230 VAC ±14%	Packed Weight	0.19 kg (0.42 lb)
Supply Current	10 A	Construction	Polycarbonate
DyNet DC Output Voltage	12 VDC	Serial Ports	1 x 5-way pluggable screw terminal
DyNet DC Output Current	120 mA	Serial Port Conductor Size	≤1.5 mm² (#16+ AWG)
Relay Outputs	1 x 10 A inductive	DALI Terminals	2 x screw terminal
IEC Overvoltage Category	III	DALI Terminal Conductor Size	≤1.5 mm² (#16+ AWG)
Control		Output Terminals	2 x screw terminal
Communication Ports	1 x RS-485	Output Terminal Conductor Size	≤5 mm² (#10+ AWG)
Supported Protocols	DyNet DMX Rx	Supply Terminals	2 x screw terminal
DMX Rx Channels	1	Supply Terminal Conductor Size	≤5 mm² (#10+ AWG)
Control Channel Outputs	1 (DALI Broadcast, 1-10 V, DSI)		
Diagnostic Functions	Device online/offline status	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	≤90% non-condensing
		IEC Pollution Degree	II
		Installation Note	For indoor installation only
		Compliance	
		Certifications	CE, RCM, UKCA, RoHS

Diagnostic Note

- Dynalite System Manager required for analysing diagnostic data.
- The availability of some diagnostics is dependent on driver type.



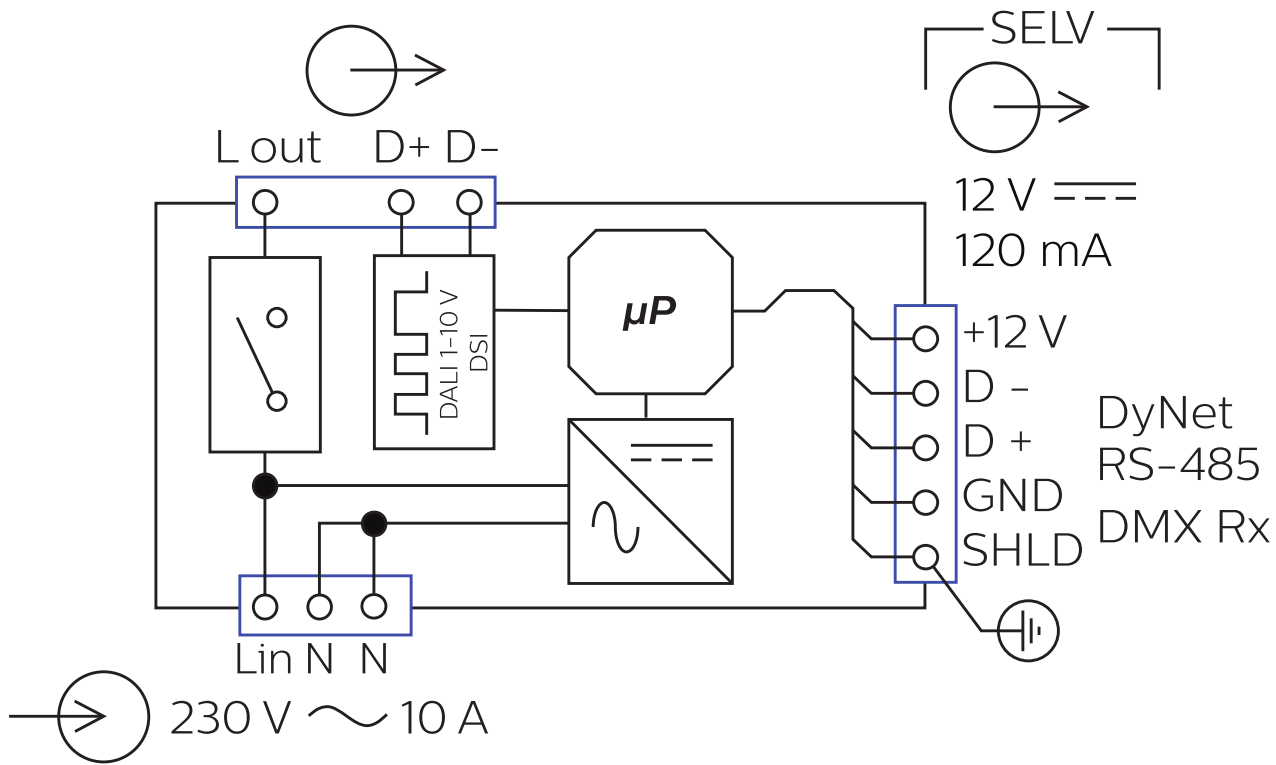
Output Channel Ratings

Load Type	CH1
General Use	10 A, 240 VAC
Electronic Driver	3 A, 240 VAC
Inrush Current	165 A

Control Channel Ratings

DALI/DSI	
Output Voltage	12 VDC
Guaranteed Current	10 mA
Maximum Current	250 mA
Maximum Drivers/Channel	5
Insulation	Basic
1-10 V	
Current (Sink)	20 mA
Current (Source)	10 mA

Electrical Drawing



Ordering Codes

Product	12NC
DMBC110	913703030009

Policies and Notices

Specific Data Notice

This Specific Data Notice applies to the Controllers as specified in this product specification sheet (the "**Controller**") that is part of or works with a Professional System offered by Signify for use in the European Union and supplements and/or corrects the Generic Data Notice For Professional Systems and Services that can be found at <https://www.signify.com/global/resources/policies-announcements> (the "**Generic Data Notice**") by providing additional and/or more specific details specific to this Controller.

Terms starting with a capital in this Specific Data Notice will have the meaning as attributed thereto in the Generic Data Notice, unless explicitly defined otherwise in this document.

When used in a Signify professional lighting system in combination with a Dynalite Gateway with either the Dynalite Switch App, Dynalite System Builder, Dynalite System Manager, or Dynalite Cloud, the Controller can generate the Data as specified below:

- Operational Data: Lighting control commands based on the configured control logic in the product via the DyNet network
- Sensor Data: This product does not generate any sensor data.

The type and volume and format of Data that is generated depends on the actual devices connected to the Controller, the product and/or software configuration. For further details on data generation capabilities of such devices, please check the product specification sheets of such devices.

The Data generated in this combination is communicated via the network to the gateway and is stored on the gateway. If configured to do so, the gateway can forward the Data to Dynalite Cloud or to Dynalite System Manager. For applicable retention period and means of access to Data that is Readily Available Data, please refer to the Dynalite Cloud software specification sheet. Data cannot be accessed directly from the Controller. Data can be accessed from the Gateway using Dynalite System Builder or directly from any of the APIs of the Gateway. The Gateway will persist the Data for 28 days on a rolling basis.

This Specific Data Notice may be changed by Signify from time to time. The current version of this notice will apply and can be obtained at request via the point of contact as indicated in paragraph 7 of the Generic Data Notice.