

# 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.

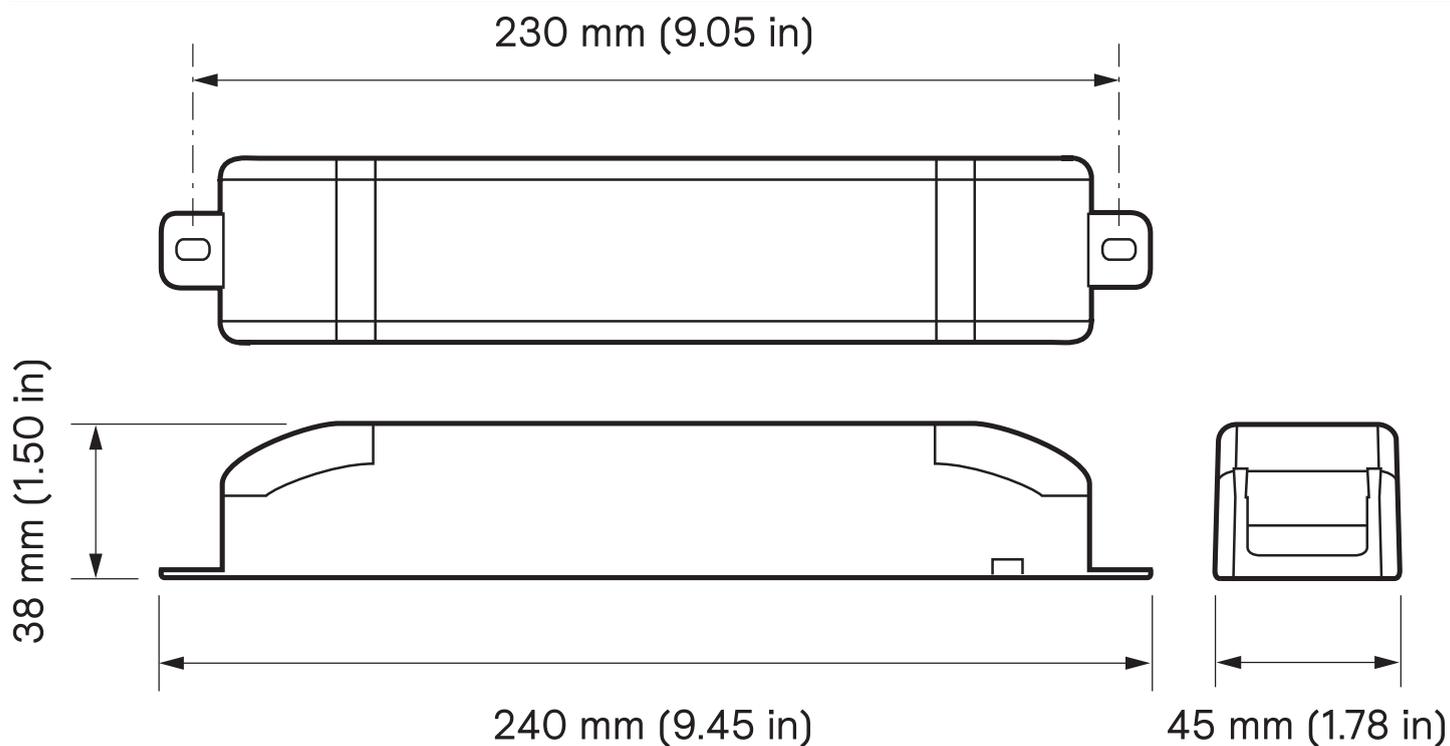
## Key Features

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- **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

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## Specifications

Electrical	
Supply Type	Single-Phase
Supply Voltage	230 VAC $\pm$ 14%
Supply Current	10 A
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	120 mA
Switched Outputs	1 x 10 A inductive
IEC Overvoltage Category	III

Control	
Communication Ports	1 x RS-485
Supported Protocols	DyNet DMX Rx
DMX Rx Channels	1
Control Channel Outputs	1 (DALI Broadcast, 1-10 V, DSI)
Diagnostic Functions	Device online/offline status

Physical	
Dimensions	38 x 240 x 45 mm (1.50 x 9.45 x 1.78 in)
Packed Weight	0.19 kg (0.42 lb)
Construction	Polycarbonate
Serial Ports	1 x 5-way pluggable screw terminal
Serial Port Conductor Size	$\leq$ 1.5 mm <sup>2</sup> (#16+ AWG)
DALI Terminals	2 x screw terminal
DALI Terminal Conductor Size	$\leq$ 1.5 mm <sup>2</sup> (#16+ AWG)
Output Terminals	2 x screw terminal
Output Terminal Conductor Size	$\leq$ 5 mm <sup>2</sup> (#10+ AWG)
Supply Terminals	2 x screw terminal
Supply Terminal Conductor Size	$\leq$ 5 mm <sup>2</sup> (#10+ 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	$\leq$ 90% non-condensing
IEC Pollution Degree	II
Installation Note	For indoor installation only

Compliance	
Certifications	CE, RCM, UKCA, RoHS

## Diagnostic Note

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



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**Output Channel Ratings**

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

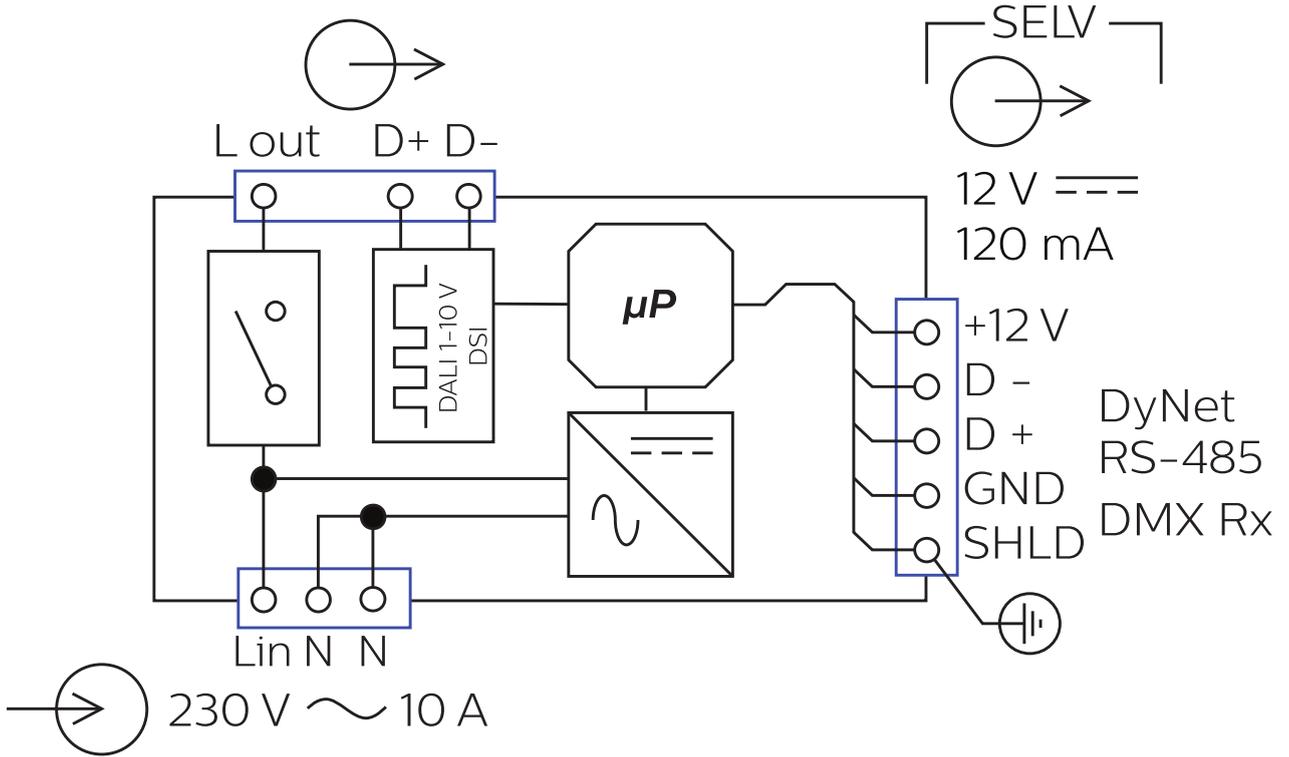
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**Control Channel Ratings**

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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