PHILIPS

Dynalite

Multipurpose Controllers

DDMC802
Multipurpose Modular Controller

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Control different load types with one device

The Philips Dynalite DDMC802 provides up to eight configurable output channels, controlled by up to four interchangeable control modules. A selection of control modules is available for a variety of load types.

Single controller solution: Control a variety of load types from one device.

Four module bays: Accommodates any combination of up to four single modules or two double-size modules.

Leading edge phase control dimmer module: Suitable for use with incandescent lamps and some types of dimmable electronic transformers.

Trailing edge phase control dimmer module: Suitable for use with most types of dimmable electronic transformers.

Signal dimmer control module: Suitable for 1-10 V, DSI and DALI Broadcast control of digital drivers and transformers.

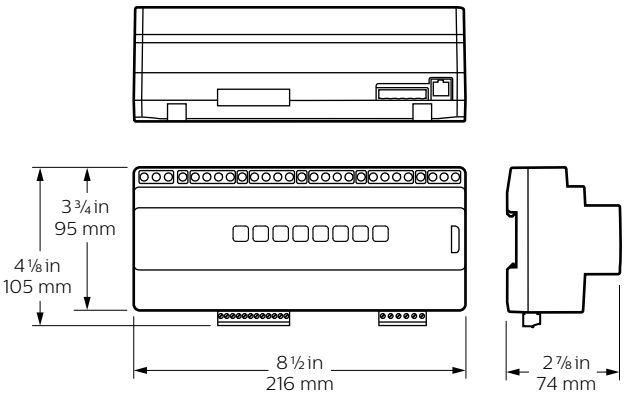
Relay control module: Suitable for controlling most types of switched loads.

Fan control module: 400 VA three-speed fan control.

Curtain control module: Provides control of curtains, blinds and other motorized window treatments.

Flexible mounting solution: A DIN-rail mountable device, designed to be installed into the distribution board supplying power to the controlled circuit.

Dimensions



Ordering Code

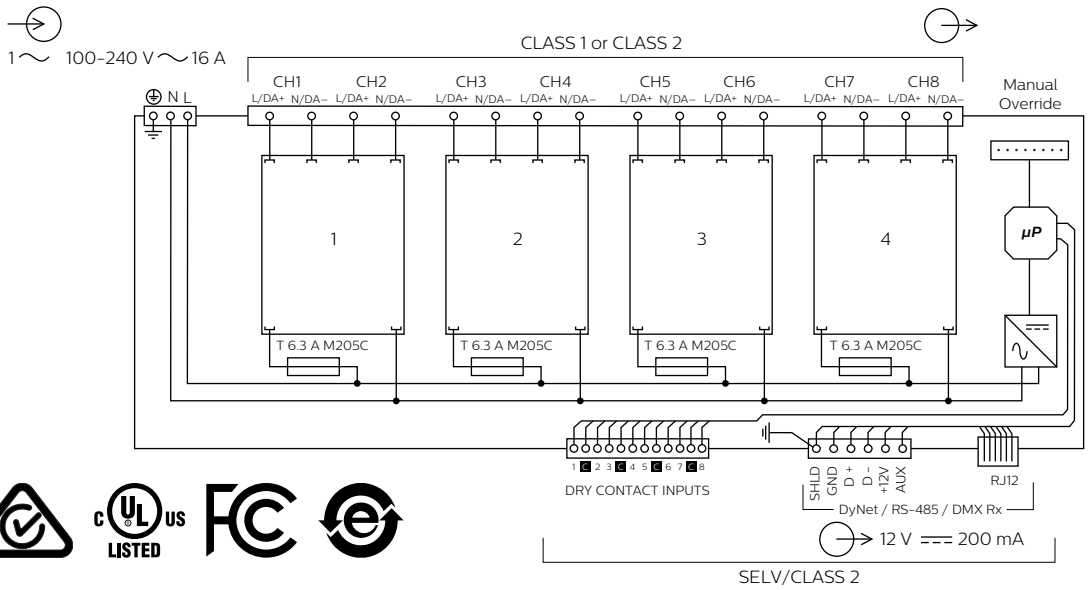
Product	Philips 12NC
DDMC802	913703243509

Modules	Philips 12NC
DGCM102	913703024409
DGRM204	913703261109
DGBM200	913703261209
DGLM105	913703260809
DGLM202	913703260909
DGLM402	913703261009
DGTM104	913703260609
DGTM202	913703260709
DGTM402	913703024309

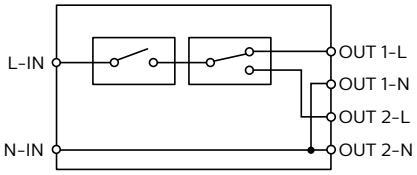
DDMC802 Multipurpose Modular Controller

Dynalite – Control different load types with one device

Electrical



DGCM102 (1 Output Channel)



Module Type
Motorized curtain/blind control

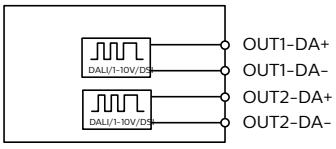
Output Channel Ratings

Load Type	Maximum Rating per Output
General Use	2 A, 230 VAC
Motor x 1	4.4 FLA* (HP), 120 VAC 4.9 FLA* (1/2 HP), 230 VAC

* Full Load Amps

DGBM200 (2 Output Channels)

Supported Protocols
1-10 V
DSI
DALI broadcast



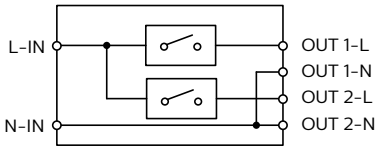
Module Type
Signal dimmer control

Output Channel Ratings

Load Type	Max Ballasts	Maximum Rating per Output
1-10 V	10	10 mA sink/source
DSI/DALI	5	13 VAC 10 mA guaranteed, 250 mA max DALI Insulation System: Basic Supports Class 1 / Class 2 wiring

DGRM204 (2 Output Channels)

Max Module Load Limit
5 A



Module Type
Relay control

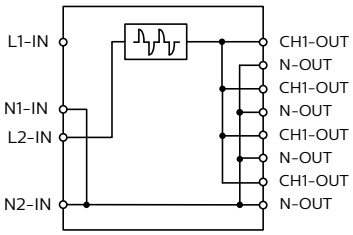
Output Channel Ratings

Load Type	Maximum Rating per Output
General Use	4 A, 230 VAC
Incandescent	600 W, 120 VAC 1100 W, 230 VAC
Standard Ballast	2 A, 120 VAC
Electronic Ballasts	4 A, 120 VAC 3 A, 230 VAC

DDMC802 Multipurpose Modular Controller

Dynalite – Control different load types with one device

DGLM105 (1 Output Channel - Double size module)



Module Type
Leading edge dimmer

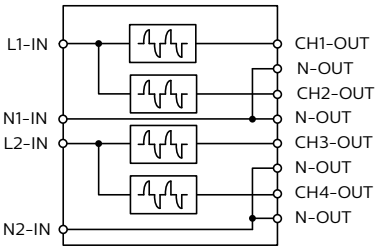
Output Channel Ratings

Load Type	Maximum Rating per Output
Incandescent	5 A, 120-230 VAC
Standard Ballast	
Electronic Ballast*	

* Can be limited by load capacitance

DGLM402 (4 Output Channel - Double size module)

Max Module Load Limit
5 A



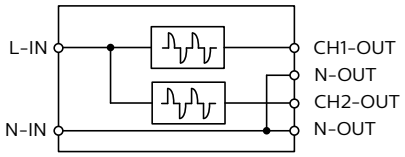
Module Type
Leading edge dimmer

Output Channel Ratings

Load Type	Maximum Rating per Output
Incandescent	2 A, 120-230 VAC
Standard Ballast	
Electronic Ballast*	

* Can be limited by load capacitance

DGLM202 (2 Output Channel)



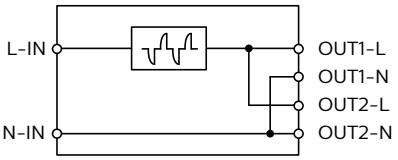
Module Type
Leading edge dimmer

Output Channel Ratings

Load Type	Maximum Rating per Output
Incandescent	2 A, 120-230 VAC
Standard Ballast	
Electronic Ballast*	

* Can be limited by load capacitance

DGTM104 (1 Output Channel)



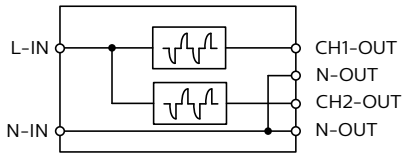
Module Type
Trailing edge dimmer

Output Channel Ratings

Load Type	Maximum Rating per Output
Incandescent	4 A, 120-230 VAC
Electronic Ballast	

Not compatible with magnetic transformers

DGTM202 (2 Output Channel)



Module Type
Trailing edge dimmer

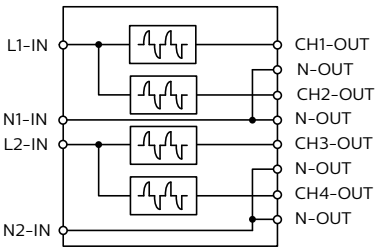
Output Channel Ratings

Load Type	Maximum Rating per Output
Incandescent	2 A, 120-230 VAC
Electronic Ballast	

Not compatible with magnetic transformers

DGTM402 (4 Output Channel - Double size module)

Max Module Load Limit
5 A



Module Type
Trailing edge dimmer

Output Channel Ratings

Load Type	Maximum Rating per Output
Incandescent	2 A, 120-230 VAC
Electronic Ballast	

Not compatible with magnetic transformers

DDMC802 Multipurpose Modular Controller

Dynalite – Control different load types with one device

Physical

Dimensions (H x W x D)	4.13 x 8.50 x 2.91 in (105 x 216 x 74 mm)
Packed Weight	1.14 lb (0.52 kg)
Construction	Polycarbonate DIN rail enclosure (12 unit)
Serial Ports	1 x RJ12 1 x 6-way pluggable screw terminal
Serial Port Conductor Size	2.5 mm^2 #12 AWG (max)
Supply Terminals	3 x screw terminal Line, Neutral, Earth
Supply Terminal Conductor Size	5 mm^2 #10 AWG (max)
Dry Contact Terminals	1 x 12-way pluggable screw terminal
Dry Contact Terminal Conductor Size	1.3 mm^2 #16 AWG (max)
Load Terminals	16 x screw terminal
Load Terminal Conductor Size	5 mm^2 #10 AWG (max)

Electrical

Supply Type	Single phase
Supply Voltage	100-240 VAC
Supply Current	16 A
Outputs	8 (4 x 2-channel module bays)
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	200 mA (supply for approx. 10 user interfaces)
Power Conditioning	Regulated outputs Overvoltage protection Surge protection Brownout / Sag protection Spike protection Soft start 16 bit fade resolution (65,536 steps)
Overvoltage Category	III

Environment

Operating temp	32° to 104°F ambient (0° to 40°C)
Storage/Transport temp	-13° to 158°F ambient (-25° to 70°C)
Humidity	0 to 90% non-condensing
IEC Pollution Degree	II

Control

Serial Ports	1 x RS-485
Supported Protocols	DyNet, DMX Rx
Dry Contact Inputs	9 (8 + AUX)
Diagnostic Functions	Device online/offline status Circuit runtime tracking
User Controls	1 x service switch 8 x manual override switches
Indicators	1 x service LED 8 x channel status LED

Compliance

Certification	CE, RCM, UL/cUL, FCC, ICES-003, RoHS

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