**PHILIPS**

# dynalite ◖◗

**Multipurpose Controllers**

# DMC810GL
## Multipurpose Controller
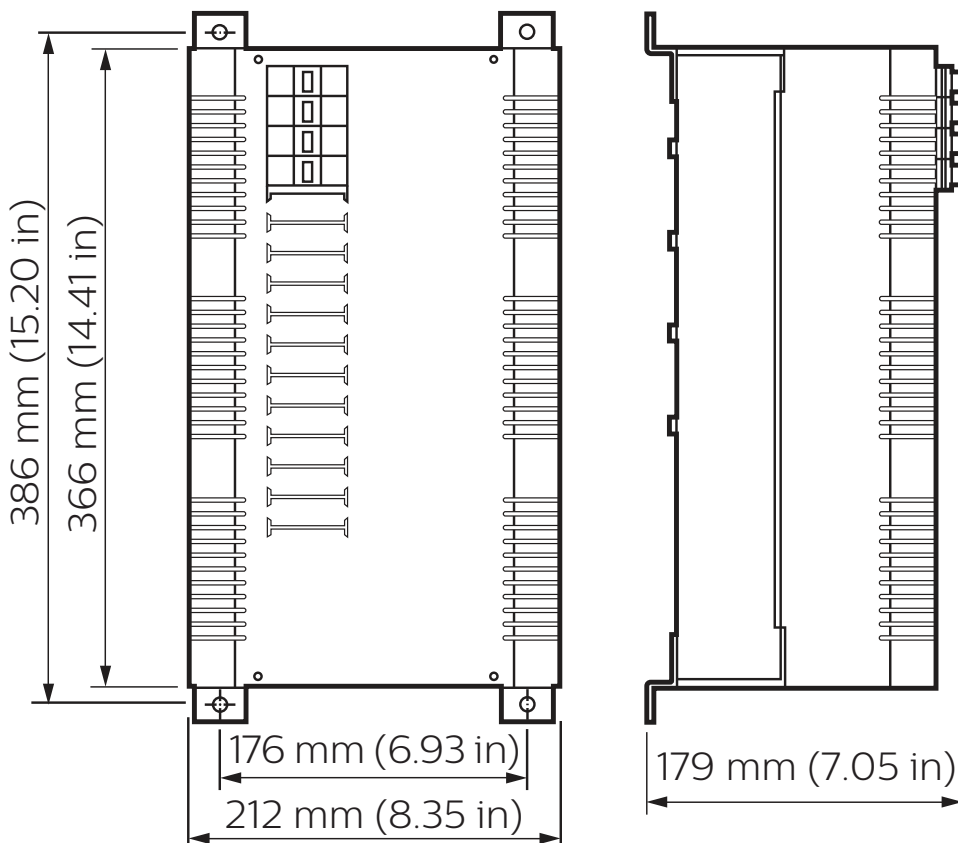
## Combining leading edge and signal dimming control

The Philips Dynalite DMC810GL is an 8-channel controller that provides a combination of control technologies. The ability to control mixed load types from one device provides savings in initial capital costs, installation costs and a reduction in ongoing maintenance.

# DMC810GL

## Combining leading edge and signal dimming control

- **Four channels for control of dimmable loads –** Leading edge phase control for use with incandescent, neon, leading edge electronic and iron core transformers.

- **Four signal control outputs –** Selectable to 1–10 VDC, DSI and DALI broadcast for control of lamp drivers.

- **Four switched outputs –** Signal control outputs can operate in tandem with, or separately from, switched outputs.

- **Interference suppression –** Iron powder core toroidal choke lessens effects of interference from other equipment, such as transformers.

- **Naturally ventilated –** Requires no forced cooling or maintenance.

- **Diagnostic functionality –** Device Online/Offline status reporting.

- **User controls –** Incorporates service override switch – all channels to 100% and a diagnostic LED.

- **Options available –** Including an additional RS–485 DyNet/DMX512 port or earth leakage and overload protection on each channel.

## Dimensions

386 mm (15.20 in)

366 mm (14.41 in)

176 mm (6.93 in)

212 mm (8.35 in)

179 mm (7.05 in)

# Specifications

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

**DMC810GL**
Multipurpose Controller

## Electrical

| | |
|---|---|
| Supply Type | Single phase |
| Supply Voltage | 230 VAC ±14% |
| Supply Current | 40 A |
| Outputs | 4 x leading edge dimming<br>4 x switched |
| Overload Protection | 4 x 10 A single-pole thermal magnetic<br>(6 kA surge) |
| Regulating Device | Triac<br>(40 A nominal, 600 V, 400 A surge) |
| Interference Suppression | Iron powder toroidal choke |
| DyNet Load Voltage | 12 VDC |
| DyNet Load Current | 200 mA |
| Overvoltage Category | III |

## Control

| | |
|---|---|
| Serial Ports | 1 x RS-485 |
| Supported Protocols | DyNet<br>DMX Rx |
| DMX Rx Channels | 8 |
| Control Channel Outputs | 4 x signal dimming control<br>(DALI Broadcast, DSI, 1-10V) |
| User Controls | 1 x service switch<br>8 x DyNet address DIP switch |
| Indicators | 1 x service LED |

## Physical

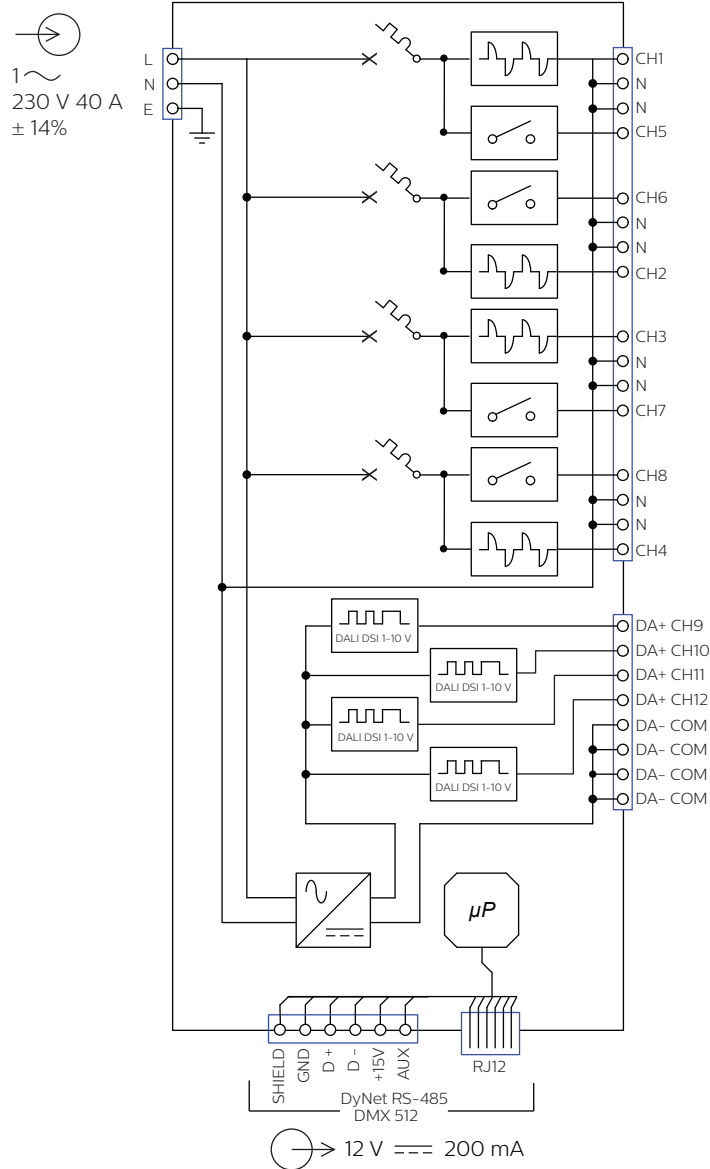| | |
|---|---|
| Dimensions (H x W x D) | 386 x 212 x 179 mm (15.20 x 8.35 x 7.05 in) |
| Packed Weight | 7.50 kg (16.53 lb) |
| Construction | Alloy / Steel wall-mount case<br>Powder coat finish |
| Serial Ports | 1 x RJ12<br>1 x 6-way pluggable screw terminal |
| Serial Port Conductor Size | 2.5 mm$^2$ (#12 AWG) (max) |
| Supply Terminals | 2 x screw terminal<br>Line, Neutral |
| Supply Terminal Conductor Size | 10 mm$^2$ (#6 AWG) (max) |
| Phase Control Terminals | 16 x screw terminal |
| Phase Control Terminal Conductor Size | 5 mm$^2$ (#10 AWG) (max) |
| Signal Dimming Terminals | 8 x screw terminal |
| Signal Dimming Terminal Conductor Size | 2.5 mm$^2$ (#12 AWG) (max) |
| Earth Bar Terminals | 5 x screw terminal |
| Earth Bar Conductor Size | 16 mm$^2$ (#6 AWG) (max) |

## Environment

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

## Compliance

| | |
|---|---|
| Certification | CE, RCM, RoHS |

## Electrical



## Control Channel Ratings

| DALI/DSI | Channel | Device |
|---|---|---|
| Output Voltage | 12 VDC | |
| Guaranteed Current | 128 mA | |
| Maximum Current | 250 mA | |
| Maximum Drivers | 64 | 200 |
| Insulation | Basic | |

| 1–10 V | Channel |
|---|---|
| Current | sink 50 mA<br>source 50 mA |

## Output Channel Ratings

| Load Type | Maximum Rating per Output |
|---|---|
| | CH5–CH8 |
| General Use | 10 A, 240 VAC |
| Incandescent | 5 A, 240 VAC |
| Magnetic with Halogen | 2 A, 240 VAC |
| Electronic Driver | 3 A, 240 VAC |
| Inrush Current | 165 A |

| Maximum Group Load | CH1 & CH5 | CH2 & CH6 | CH3 & CH7 | CH4 & CH8 | DEVICE |
|---|---|---|---|---|---|
| | 10 A | 10 A | 10 A | 10 A | 40 A |

## Ordering Code

| Product | Philips 12NC |
|---|---|
| DMC810GL | 913703028009 |
| DMC810GL-A (Extra DyNet/DMX port) | 913703028709 |
| DMC810GL-RCBO (Earth leakage/overload protection on each channel) | 913703028509 |
| DMC810GL-A-RCBO (Dual port and RCBO) | 913703028909 |