

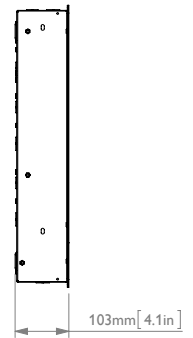
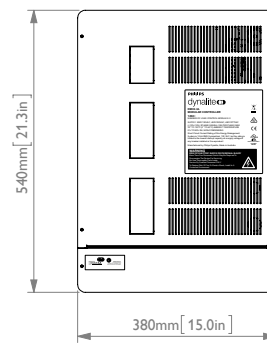
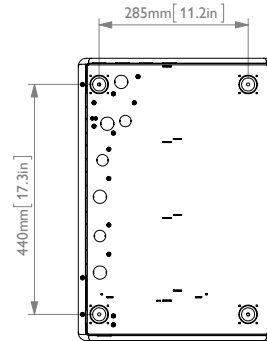


# DMC2-CE Multipurpose Modular Controller

## Control different load types with one device

The Philips Dynalite DMC2 provides multichannel control via two interchangeable modules. The device is available with a variety of control modules to handle various load types and capacities. This model is suitable for use in CE markets.

- Single controller solution — Control a multitude of load types from one device, suited to any segment requiring indoor lighting or relay control.
- Phase-cut dimming module — Selectable per channel for Leading or Trailing Edge output. Compatible with most dimming loads.
- Signal dimming module — Suitable for controlling 1-10V, DSI and DALI Broadcast drivers. A built-in relay removes power when channel level is at 0%.
- Relay control module — Suitable for controlling most types of switched loads.
- Flexible mounting solution — Surface or recess mountable enclosure.
- Passive cooling — Fanless design reduces noise, power consumption and maintenance costs.



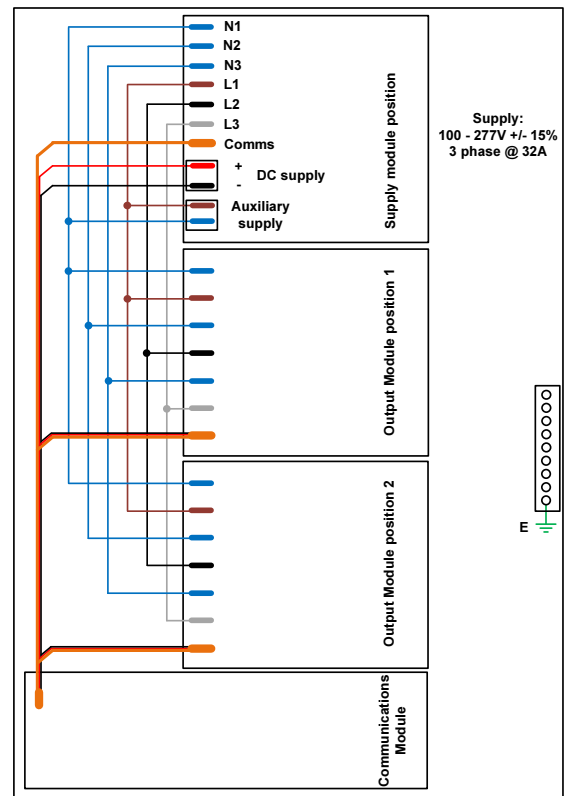
For detailed product information, please refer to the product information pages at <http://www.lighting.philips.com/>

## Specifications

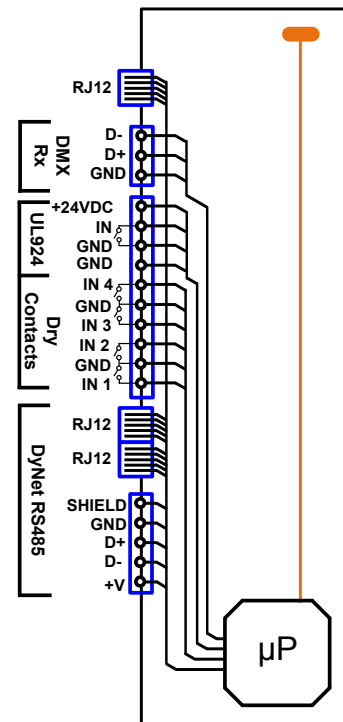
Due to continuous improvements and innovations, specifications may change without notice.

| Item               | Specification          | Details  |
|--------------------|------------------------|--|
| Electrical         | Input Voltage          | 120/208, 230/400, 277/480 VAC (+10% / -15%)<br>3-Phase, 4-Wire (Y), or Single Phase<br>IEC Overvoltage Category III  |
|                    | Input Current          | 32A per phase or single phase 63A max  |
|                    | Input Frequency        | 50/60Hz  |
|                    | DyNet DC Supply        | 12/24VDC (selectable) @ max 200mA (Class 2)  |
|                    | Control Modules        | <p><b>DMD310-CE*</b>: 3 x 10A 1-10V, DSI or DALI broadcast<br/> <b>DMD316-CE*</b>: 3 x 16A 1-10V, DSI or DALI broadcast<br/>                     1-10V: 50mA sink/source, max 100 drivers per channel<br/>                     DALI/DSI: 16VDC 130mA nom.<br/>                     max drivers: 64 per channel (192 per module)<br/>                     max current: 190mA per channel<br/>                     (No external DALI power supply permitted)</p> <p><b>DMP310-GL-CE*</b>: 3 x 10A Leading/Trailing Edge dimming.<br/>                     Maximum module output 14A<br/>                     Current limited to 4.3A per channel at 277V</p> <p><b>DMR310-CE*</b>: 3 x 10A relay (lighting and resistive load),<br/>                     1HP (120/230/277V) (motor load)</p> <p><b>DMR316-CE*</b>: 3 x 16A relay (lighting and resistive load),<br/>                     1HP (120V), 2HP (230/277V) (motor load)</p> <p>* Line, Neutral for each channel<br/>                     Conductor size 1 x 16 mm<sup>2</sup> (AWG6)<br/>                     Inrush current rating: 500 A for 200 μs</p> |
| Control            | Communication Module   | One RS-485 DyNet serial port<br>(1 x 5-way pluggable screw terminal + 3 x RJ-12 sockets)<br>One DMX512 Rx port<br>Four programmable dry contact AUX inputs (non-isolated)<br>One UL924 trigger input†<br>Service switch<br>Diagnostic LED<br>Channel override keypad<br>† This function must only be used with systems complying to UL924, and must not be used with any other system.   |
|                    | Diagnostic Functions   | Device online/offline status<br>Channel on/off/faulty status<br>DyNet Watchdog   |
|                    | Supply Module          | Line 1, Line 2, Line 3, Neutral 1x16mm <sup>2</sup> (#6-20 AWG) max conductor size. Earth link bar provided  |
| Physical           | Dimensions (H x W x D) | 540mm(21.3") x 380mm (15") x 103mm (4.1")  |
|                    | Packed Weight          | DMC2 8.9kg (19.6lbs)<br>DSM2-XX 1.1kg (2.4lbs)<br>DCM-DyNet 0.8kg (1.8lbs)<br>DMR31X 1.7kg (3.7lbs)<br>DMD31X 1.8kg (4lbs)<br>DMP310-GL 2.1kg (4.6lbs)   |
|                    | Construction           | Galvanized steel case with powder coated front covers  |
|                    | Operating Conditions   | Temperature: 0 to 40°C (32 to 104°F) ambient<br>Humidity: 0 to 95% non-condensing<br>IEC Pollution Degree II   |
|                    | Storage & Transport    | Temperature: -25 to 60°C (-13 to 140°F) ambient<br>Humidity: 0 to 90% non-condensing   |
|                    | Certification          | CE, RCM, RoHS<br>High SCCR 22 kA @ 277 VAC (UL67)  |
| Options & Ordering | Naming Format          | DMC2-CE (Philips 12NC - 913703666109)<br>DMD310-CE (Philips 12NC - 913703666609)<br>DMD316-CE (Philips 12NC - 913703666709)<br>DMP310-GL-CE (Philips 12NC - 913703666809)<br>DMR310-CE (Philips 12NC - 913703666409)<br>DMR316-CE (Philips 12NC - 913703666509)<br>DCM-DyNet (Philips 12NC - 913703666209)<br>DSM2-XX (Philips 12NC - 913703500509)  |

## Electrical Diagram



## Communication Module



| RCBO modules      | Part Number                   |
|-------------------|-------------------------------|
| DMD310-RCBO-CE    | (Philips 12NC - 913703667109) |
| DMD316-RCBO-CE    | (Philips 12NC - 913703667209) |
| DMP310-GL-RCBO-CE | (Philips 12NC - 913703667309) |
| DMR310-RCBO-CE    | (Philips 12NC - 913703666909) |
| DMR316-RCBO-CE    | (Philips 12NC - 913703667009) |



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