



DDRC420FR

Relay Controller

Robust control of switched loads

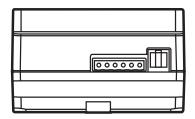
The Philips Dynalite DDRC420FR provides control of any type of switched load, including difficult lighting loads. This four channel device supports all types of switched loads up to 20 A inductive.

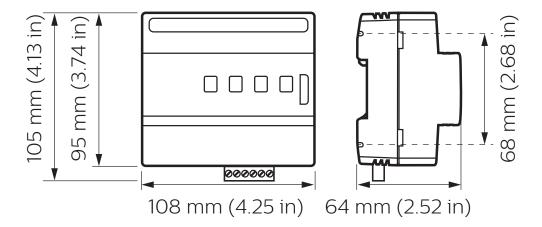
DDRC420FR

Robust control of switched loads

- Feed-through power circuit design Electrically equivalent to a 4 pole contactor, with the added advantage of each pole being separately controllable via the DyNet network.
- Flexible mounting solution A DIN-rail mountable device, designed to be installed into the distribution board supplying power to the controlled circuit.
- Inbuilt diagnostic functionality Features circuit run time tracking on each channel and Device Online/Offline status indication.
- Multiple wiring schemes supported Controls single phase and neutral or three phase and neutral (star) wiring configurations.
- **Hardware override** Service override switch accessible from front panel.

Dimensions





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



DDRC420FR **Relay Controller**

Electrical

| Supply Type | Single-phase |
|---|---|
| Supply Voltage | 100-240 VAC |
| Supply Current | 0.25 A |
| Outputs | 4 x switched feed-through relay with manual override |
| Output Channel Curre | ent 20 A (max) |
| Output Channel Ratir | gs (See Page 4) |
| Maximum CH-CH Vol | age 300 VAC (UL) 400 VAC (CE) |
| Maximum CH-XX-CH XX = unpopulated ch | /oltage* 480 VAC innel (2x terminals) for isolation |
| DyNet DC Output Vol | rage 12 VDC |
| DyNet DC Output Cur | rent 200 mA (supply for approximately 10 user interfaces) |
| Overvoltage Categor | · III |
| Control | |
| Serial Ports | 1 x RS485 |
| Supported Protocols | DyNet DMX Rx |
| DMX Rx Channels | 4 |
| Dry Contact Inputs | 1 (AUX) |
| Diagnostic Functions | Device online/offline status Network Watchdog |
| User Controls | 1 x service switch Manual override switch for each channel |
| Indicators | 1 x service LED |

Refer to Installation Instructions for correct terminations for phase separation.

Physical

| Dimensions (H x W x D) | 105 x 108 x 64 mm (4.13 x 4.25 x 2.52 in) | |
|--------------------------------|---|--|
| Packed Weight | 0.8 kg (1.76 lb) | |
| Construction | Polycarbonate DIN-rail enclosure (6 unit) | |
| Serial Ports | 1 x screw terminal 1 x RJ12 | |
| Serial Port Conductor Size | 2.5 mm ² (#12 AWG) (max) | |
| Supply Terminals | Screw terminal Line, Neutral, Earth | |
| Supply Terminal Conductor Size | 5 mm² (#10 AWG) (max) | |
| Output Terminals | 2 x screw terminal per channel Line In, Line Out | |
| Output Terminal Conductor Size | 5 mm² (#10 AWG) (max) | |

Environment*

| Operating Temperature | 0° to 50°C ambient (32° to 122°F) | |
|-------------------------------|--------------------------------------|--|
| Storage/Transport Temperature | -25° to 70°C ambient (-13° to 158°F) | |
| Humidity | 0 to 90% non-condensing | |
| IEC Pollution Degree | П | |

Compliance

Certification CE, RCM, UL/cUL, FCC, UKCA, RoHS



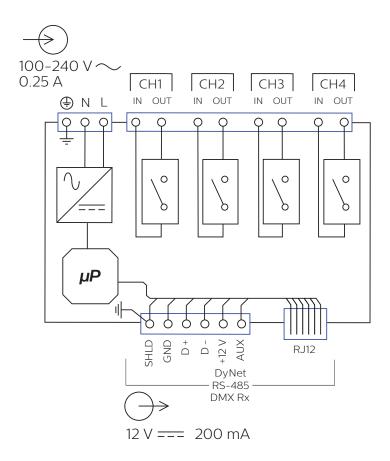






^{*} For indoor installation only

Electrical



Output Channel Ratings

| Load Tupo | Maximum Rating per Output* | | |
|--------------------|--|---------------|--|
| Load Type | UL/cUL | CE | |
| General Use | | | |
| Incandescent | 16 A, 277 VAC | 20 A, 240 VAC | |
| Standard Ballast | _ | | |
| Electronic Ballast | 16 A, 277 VAC | | |
| Motor | 16 FLA** (1 HP), 120 VAC 14.5 FLA** (2 ½ HP), 240 VAC 14.1 FLA** (3 HP), 277 VAC | | |
| Inrush Current | 500 A | | |
| Total Device Load | ≤ 64 A | ≤ 80 A | |

^{*} Note Maximum Device Load and Maximum CH-CH Voltage on Pg 3

Ordering Code

Product Philips 12NC DDRC420FR 913703244609

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^{**} FLA: Full Load Amps