

# DDRC420FR

Four-Channel Relay Controller



## Specification Sheet

Controllers > Relay Controllers



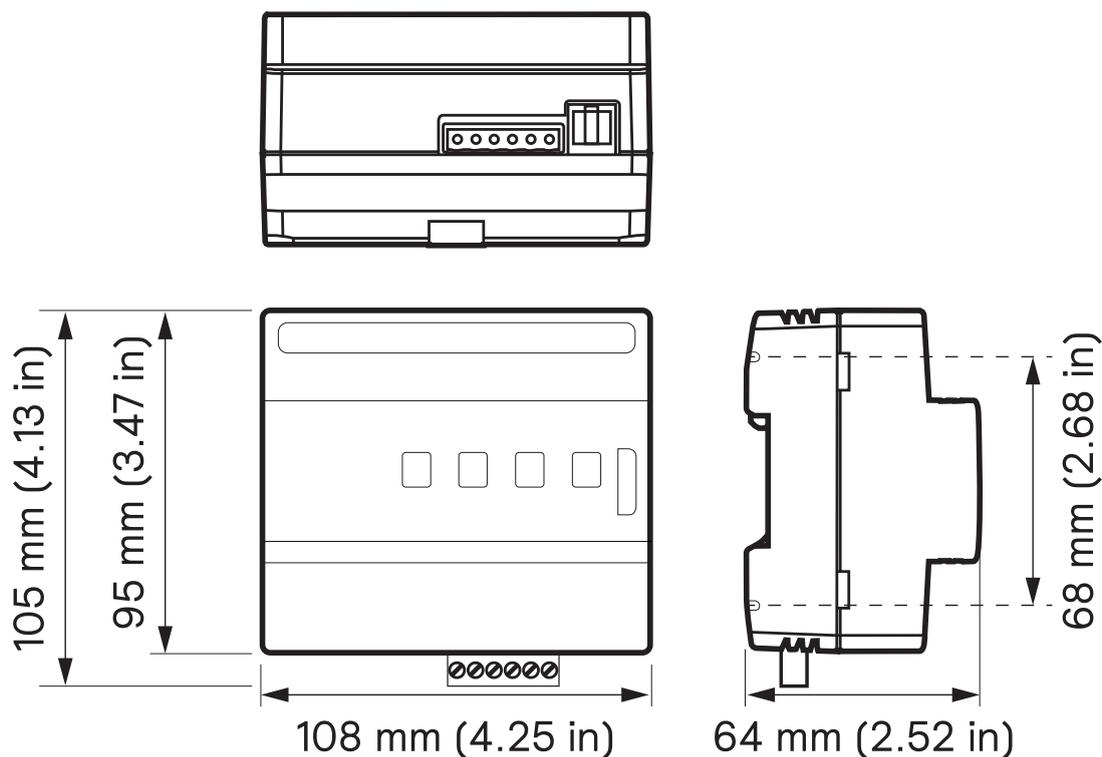
### Robust control of switched loads

The Dynalite DDRC420FR provides control of any type of switched load, including difficult lighting loads, up to 20 A inductive.

## Key Features

- **Feed-through power circuit design** - Electrically equivalent to 4 pole contactor, with the added advantage of each pole being separately controllable via the DyNet network.
- **Flexible mounting** - DIN rail mounting clips designed for installation into the distribution board supplying power to the controlled circuits.
- **Inbuilt diagnostic functionality** - Circuit run time tracking and device online/offline status.
- **Multiple wiring schemes supported** - Controls 'single phase and neutral' or 'three phase and neutral (star)' wiring configurations.
- **Hardware override** - Service override switch accessible on front panel.

## Dimensions



## Specifications

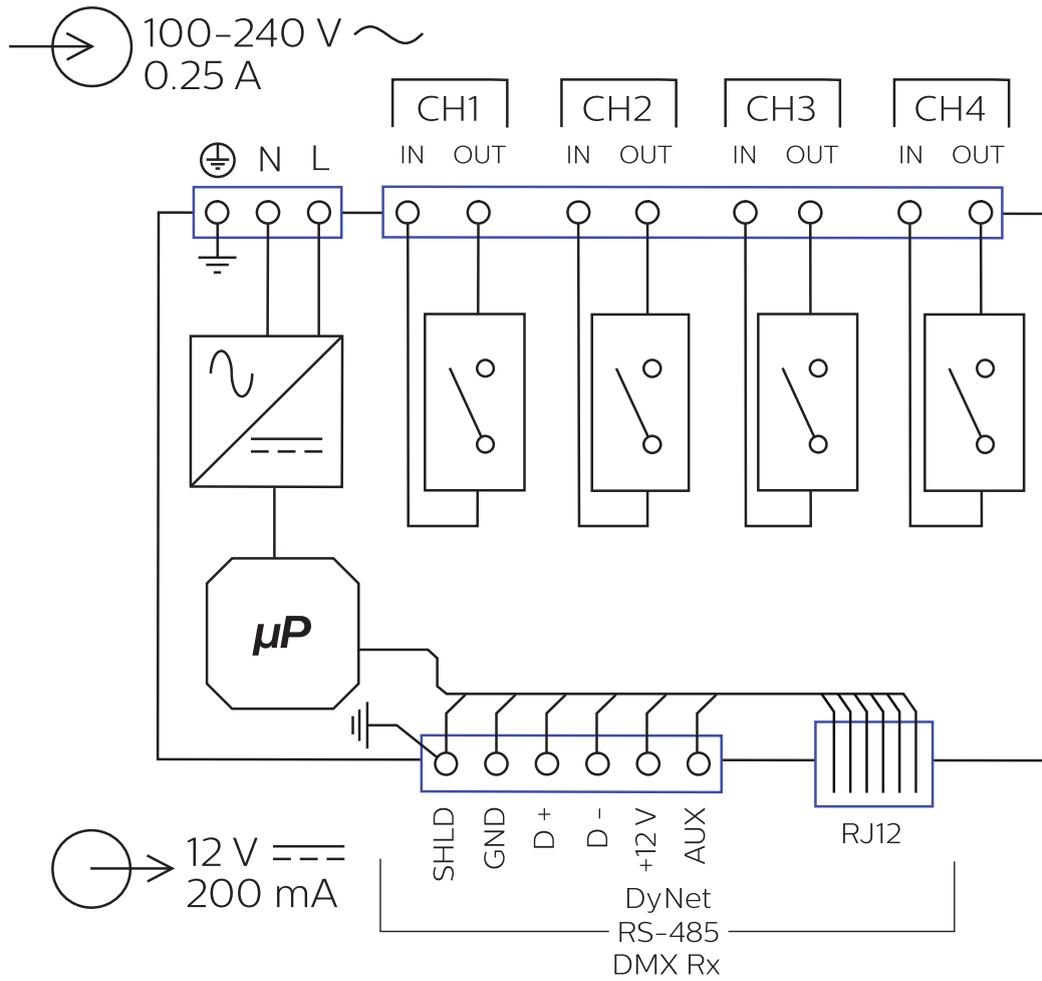
Electrical		Physical	
Supply Type	Single-phase	Dimensions	105 x 108 x 64 mm (4.13 x 4.25 x 2.52 in)
Supply Voltage	100-240 VAC	Packed Weight	0.8 kg (1.76 lb)
Supply Current	0.25 A	Construction	Polycarbonate DIN rail enclosure (6 unit)
DyNet DC Output Voltage	12 VDC	Serial Ports	1 x screw terminal 1 x RJ12
DyNet DC Output Current	200 mA (approximately 10 user interfaces)	Serial Port Conductor Size	0.3-2.5 mm <sup>2</sup> (#22-12 AWG)
Outputs	4 x switched feed-through relay with manual override	Output Terminals	2 x screw terminal per channel
Maximum CH-CH Voltage	300 VAC (UL) 400 VAC (CE)	Output Terminal Conductor Size	≤5 mm <sup>2</sup> (#10+ AWG)
Maximum CH-XX-CH Voltage	480 VAC	Supply Terminals	3 x screw terminal
	XX = unpopulated channel for isolation See Installation Instructions for correct terminations for phase separation.	Supply Terminal Conductor Size	≤5 mm <sup>2</sup> (#10+ AWG)
IEC Overvoltage Category	III	<b>Environment</b>	
<b>Control</b>		Operating Temperature	0° to 50°C ambient (32° to 122°F)
Communication Ports	1 x RS-485	Storage/Transport Temperature	-25° to 70°C ambient (-13° to 158°F)
Supported Protocols	DyNet DMX Rx	Relative Humidity	≤90% non-condensing
DMX Rx Channels	4	IEC Pollution Degree	II
Dry Contact Inputs	1 (AUX)	Installation Note	For indoor installation only
User Controls	1 x service switch 4 x channel override switch	<b>Compliance</b>	
Indicators	1 x service LED	Certifications	CE, RCM, UL/cUL, FCC, UKCA, RoHS
Diagnostic Functions	Device online/offline status Network Watchdog		



## Output Channel Ratings

Load Type	UL/cUL
General Use	16 A, 277 VAC
Incandescent	16 A, 277 VAC
Standard Driver	16 A, 277 VAC
Electronic Driver	16 A, 277 VAC
Motor	16 FLA (1 HP) @ 120 VAC 14.5 FLA (2½ HP) @ 240 VAC 14.1 FLA (3 HP) @ 277 VAC
Inrush Current	500 A
Load Type	CE
General Use	20 A, 240 VAC
Incandescent	20 A, 240 VAC
Standard Driver	20 A, 240 VAC
Electronic Driver	16 A, 277 VAC
Motor	16 FLA (1 HP) @ 120 VAC 14.5 FLA (2½ HP) @ 240 VAC 14.1 FLA (3 HP) @ 277 VAC
Inrush Current	500 A

Electrical Drawing



Ordering Codes

Product	12NC
DDRC420FR	913703244609