

DDRC1220FR-GL

Twelve-Channel Relay Controller



Specification Sheet

Controllers > Relay Controllers



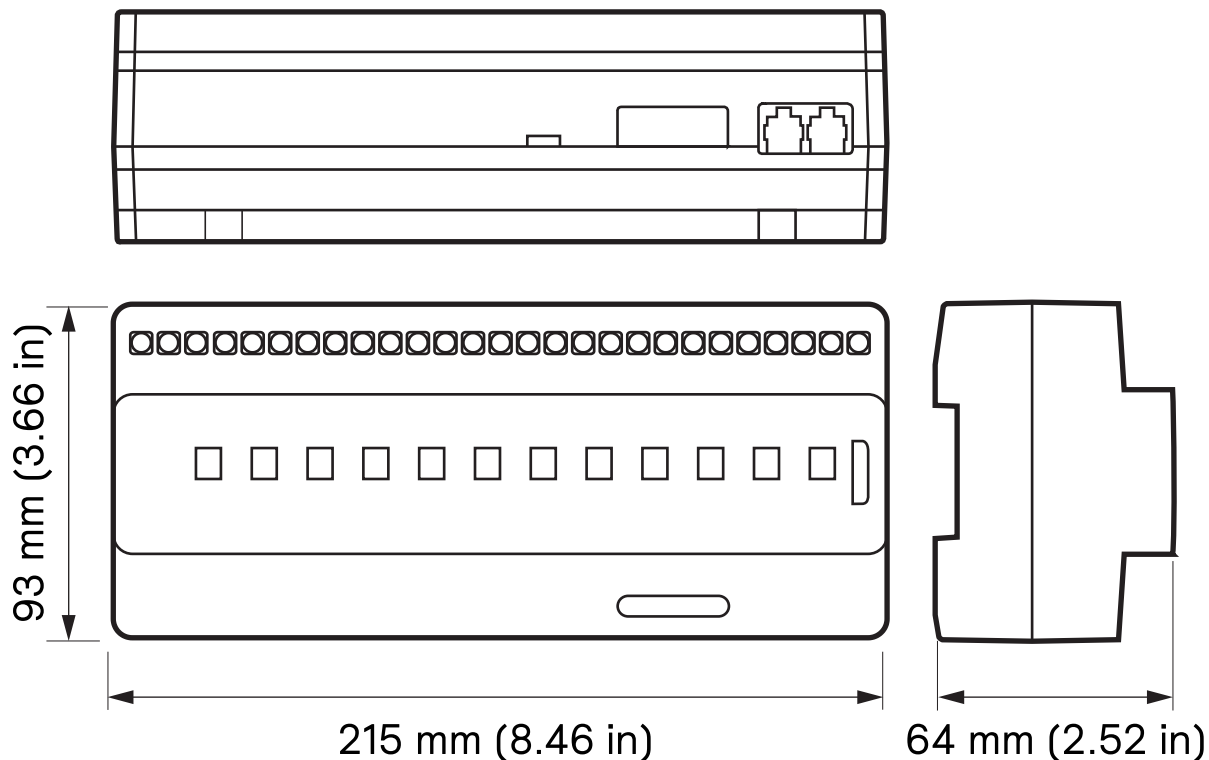
Robust control of switched loads

The Dynalite DDRC1220FR-GL provides control of multiple types of switched loads. This general-purpose twelve-channel controller supports switched loads of up to 20 A per channel, up to a maximum device load of 180 A.

Key Features

- **Feed-through power circuit design** – Electrically equivalent to a 12 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 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 on front panel.

Dimensions



Specifications

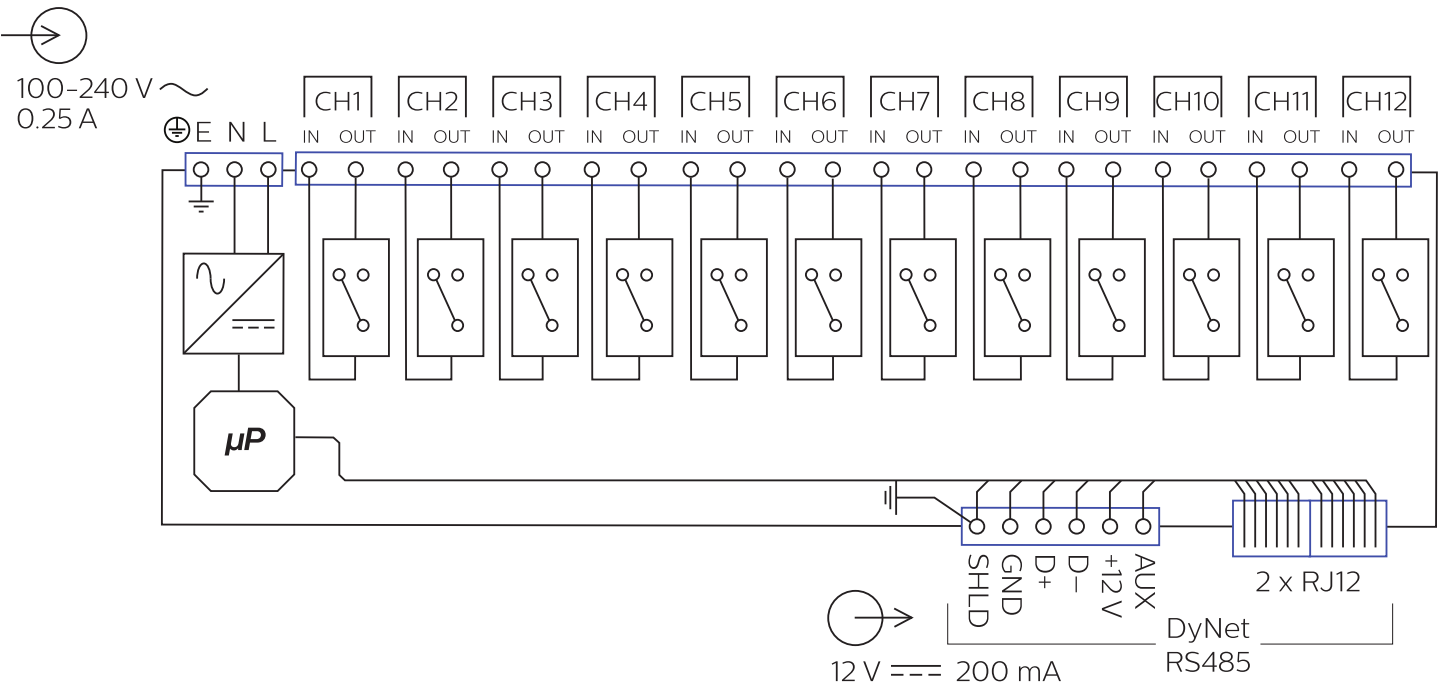
Electrical	
Supply Type	Single-phase
Supply Voltage	100-240 VAC
Supply Current	0.25 A
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	200 mA
Relay Outputs	12 x SPST feed-through with manual override
Maximum Device Load	180 A
Maximum CH-CH Voltage	300 VAC (UL) 400 VAC (CE)
Maximum CH-XX-CH Voltage	480 VAC (CH2-12 only)
XX = unpopulated channel for isolation Refer to Installation Instructions for correct terminations for phase separation.	
Supported Wiring Schemes	Single Phase and Neutral Three Phase and Neutral (Star)
IEC Overvoltage Category	III
Physical	
Dimensions	93 x 215 x 64 mm (3.66 x 8.46 x 2.52 in)
Packed Weight	1.1 kg (2.43 lb)
Construction	Polycarbonate DIN rail enclosure (12 unit)
Serial Ports	2 x RJ12 1 x 6-way pluggable screw terminal
Serial Port Conductor Size	0.3-2.5 mm² (#22-12 AWG)
Load Terminals	12 x 2-way screw terminal
Load Terminal Conductor Size	≤5 mm² (#10+ AWG)
Supply Terminals	3 x screw terminal
Supply Terminal Conductor Size	≤5 mm² (#10+ AWG)
Environment	
Operating Temperature	0° to 50°C ambient (32° to 122°F)
Storage/Transport Temperature	-25° to 70°C ambient (-13° to 158°F)
Relative Humidity	≤90% non-condensing
IEC Pollution Degree	II
Installation Note	For indoor installation only
Control	
Communication Ports	1 x RS-485
Supported Protocols	DyNet DMX Rx
DMX Rx Channels	12
Dry Contact Inputs	1 (AUX)
User Controls	1 x service switch Manual override switch for each channel
Indicators	1 x diagnostic LED
Diagnostic Functions	Device online/offline status
Compliance	
Certifications	CE, RCM, UL/cUL, FCC, ISED, UKCA, RoHS



Output Channel Ratings

UL/cUL (per channel)	
Load Type	
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
CE (per channel)	
Load Type	
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
Total Device Load	
≤ 180 A	

Electrical Drawing



Ordering Codes

Product	12NC
DDRC1220FR-GL	913703243009