

DDRC1220FR-GL

Twelve-Channel Relay Controller



Specification Sheet

Controllers > Relay Controllers



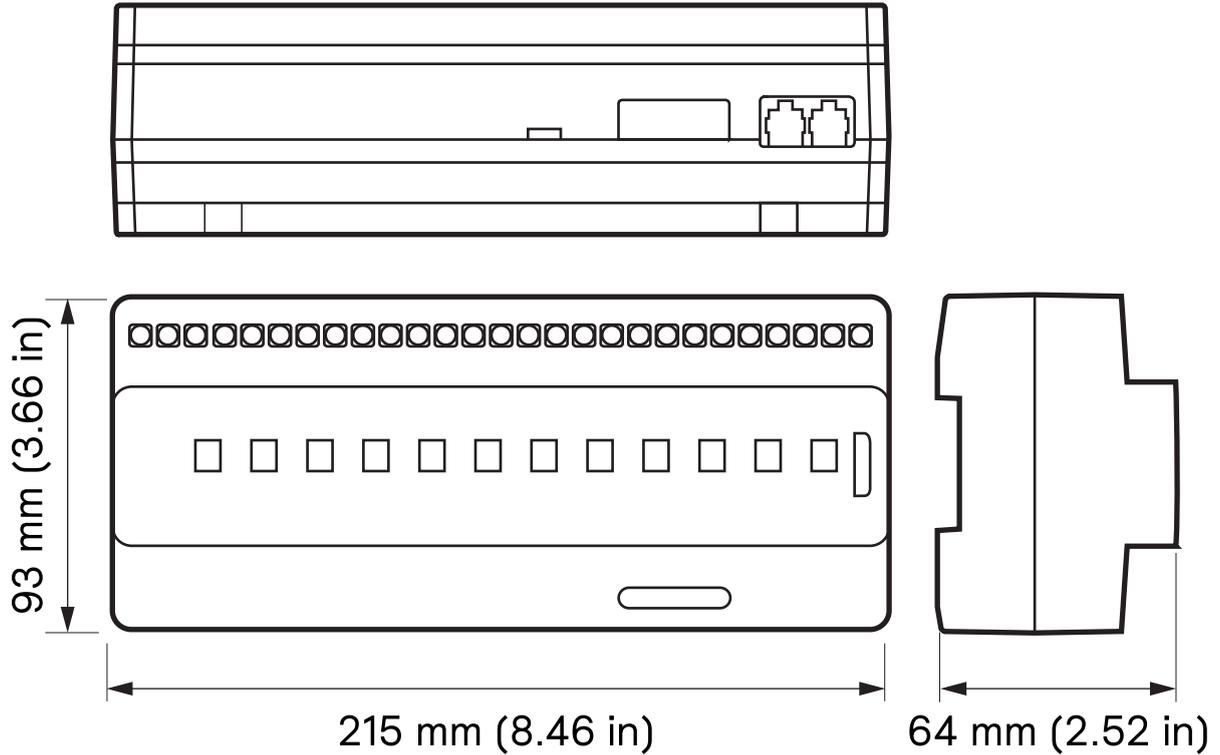
Robust control of switched loads

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

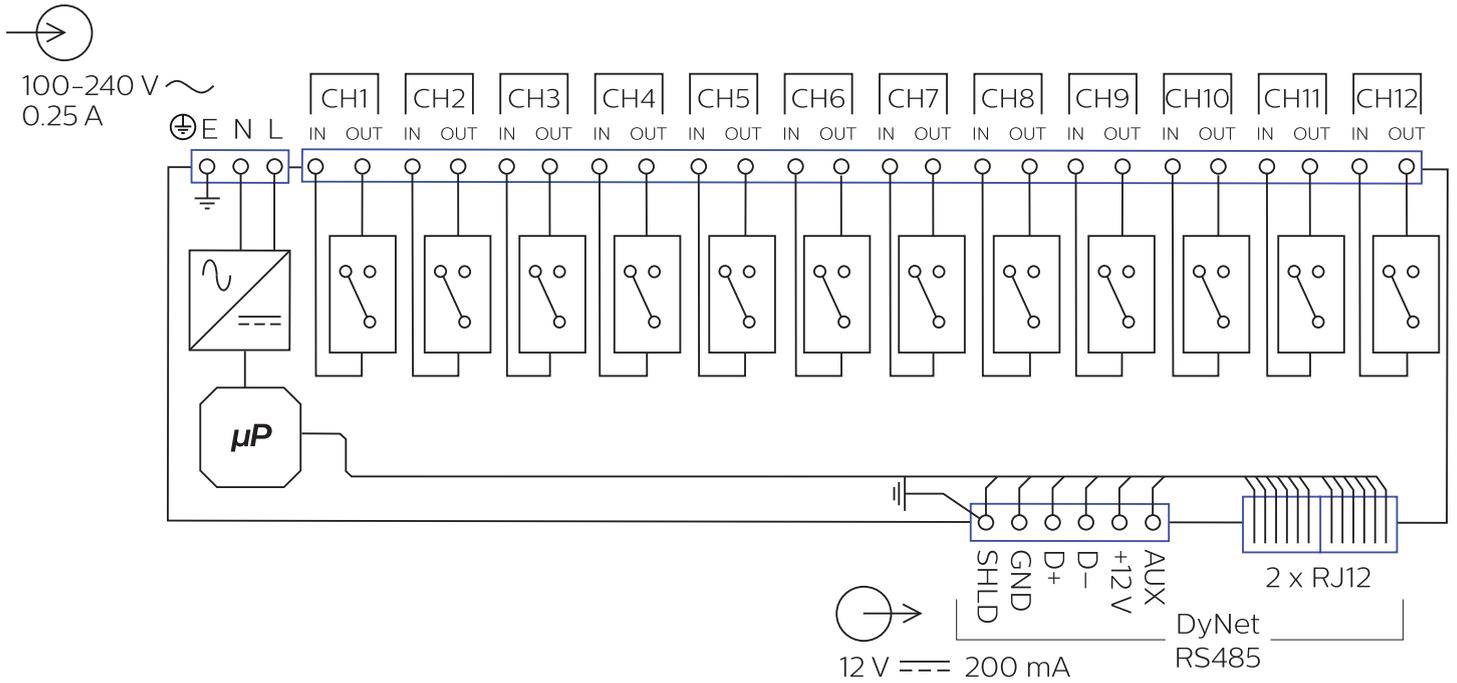
Electrical		Physical	
Supply Type	Single-phase	Dimensions	93 x 215 x 64 mm (3.66 x 8.46 x 2.52 in)
Supply Voltage	100-240 VAC	Packed Weight	1.1 kg (2.43 lb)
Supply Current	0.25 A	Construction	Polycarbonate DIN rail enclosure (12 unit)
DyNet DC Output Voltage	12 VDC	Serial Ports	2 x RJ12 1 x 6-way pluggable screw terminal
DyNet DC Output Current	200 mA	Serial Port Conductor Size	0.3-2.5 mm ² (#22-12 AWG)
Outputs	12 x SPST feed-through relay with manual override	Load Terminals	12 x 2-way screw terminal
Maximum Device Load	180 A	Load Terminal Conductor Size	≤5 mm ² (#10+ AWG)
Maximum CH-CH Voltage	300 VAC (UL) 400 VAC (CE)	Supply Terminals	3 x screw terminal
Maximum CH-XX-CH Voltage	480 VAC (CH2-12 only)	Supply Terminal Conductor Size	≤5 mm ² (#10+ AWG)
	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)	Environment	
IEC Overvoltage Category	III	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		Compliance	
Communication Ports	1 x RS-485	Certifications	CE, RCM, UL/cUL, FCC, ISED, UKCA, RoHS
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		



Output Channel Ratings

Load Type	UL/cUL (per channel)
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 (per channel)
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