



DDRC420FR

Relay Controller

Robust control of switched loads

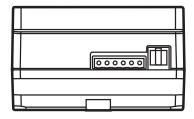
The Philips Dynalite DDRC420FR provides control of any type of switched load, including difficult lighting loads. This four channel device supports all types of switched loads up to 20 A inductive.

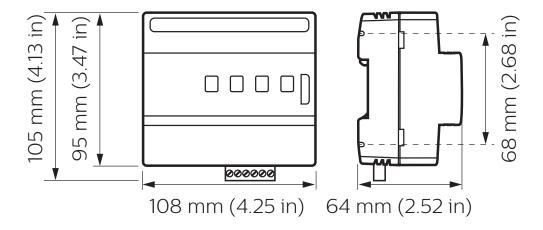
DDRC420FR

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





 $\begin{tabular}{ll} Specifications \\ Due to continuous improvements and innovations, specifications may change without notice. \\ \end{tabular}$



DDRC420FR Relay Controller

Electrical

Supply Type		Single-phase	
Supply Voltage		100-240 VAC	
Supply Current		0.25 A	
Outputs	utputs 4 x switched feed-through relay with manual override		
Output Channel	Current	20 A (max)	
Output Channel Ratings		(See Page 4)	
Maximum CH-CH Voltage		300 VAC (UL) 400 VAC (CE)	
Maximum CH-X XX = unpopulate		nge* 480 VAC (2x terminals) for isolation	
DyNet DC Outpo	ut Voltage	12 VDC	
DyNet DC Outpo	ut Current	200 mA (supply for approximately 10 user interfaces)	
Overvoltage Ca	tegory	III	
Control			
Serial Ports		1 x RS485	
Supported Prote	ocols	DyNet DMX Rx	
DMX Rx Channe	els	4	
Dry Contact Inp	uts	1 (AUX)	
Diagnostic Fund	tions	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

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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 mm² (#12 AWG) (max)
Supply Terminals	Screw terminal Line, Neutral, Earth
Supply Terminal Conductor Siz	ze 5 mm² (#10 AWG) (max)
Output Terminals	2 x screw terminal per channel Line In, Line Out
Output Terminal Conductor Siz	ze 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	II	

Compliance

Certification	CE, RCM, UL/cUL, FCC, UKCA, RoHS
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^{*} For indoor installation only

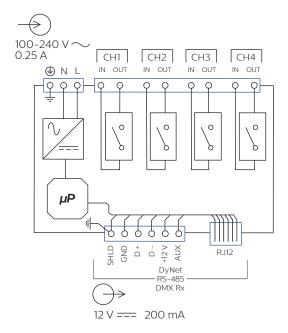








Electrical



Output Channel Ratings

Load Type	Maximum Rating per Output*	
	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	50)O 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