



DDRC420FR

Relay Controller

Robust control of switched loads

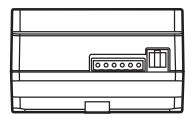
The Philips Dynalite DDRC420FR provides control of any type of switched load, including difficult lighting loads. This four channel device supports all types of switched loads up to 20 A inductive.

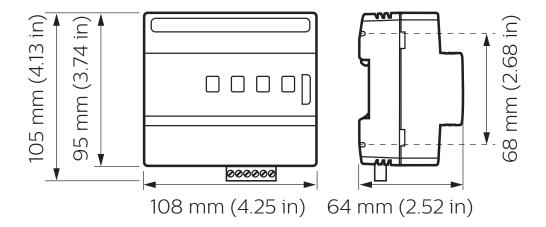
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Robust control of switched loads

- 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 swi	4 x switched feed-through relay with manual override		
Output Channel	Current	20 A (max)		
Output Channel I	Ratings	(See Page 4)		
Maximum CH-CH	Voltage	300 VAC (UL) 400 VAC (CE)		
Maximum CH-XX XX = unpopulate		e* 480 VAC 2x terminals) for isolation		
DyNet DC Output	Voltage	12 VDC		
DyNet DC Output	t Current	200 mA (supply for approximately 10 user interfaces)		
Overvoltage Cate	egory	III		
Control				
Serial Ports		1 x RS485		
Supported Proto	cols	DyNet DMX Rx		
DMX Rx Channels	5	4		
Dry Contact Inpu	ts	1 (AUX)		
Diagnostic Funct	ons	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	II

Compliance

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



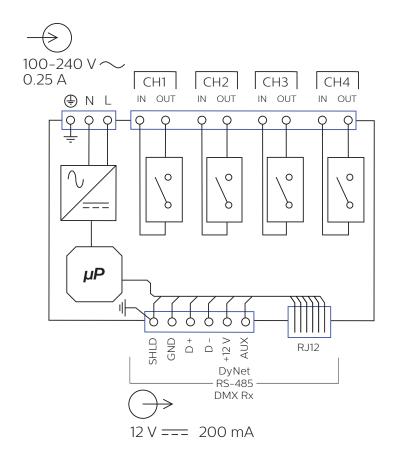






^{*} For indoor installation only

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