PHILIPS dynalite

DDBC516FR

Signal Dimmer Controller



DDBC516FR

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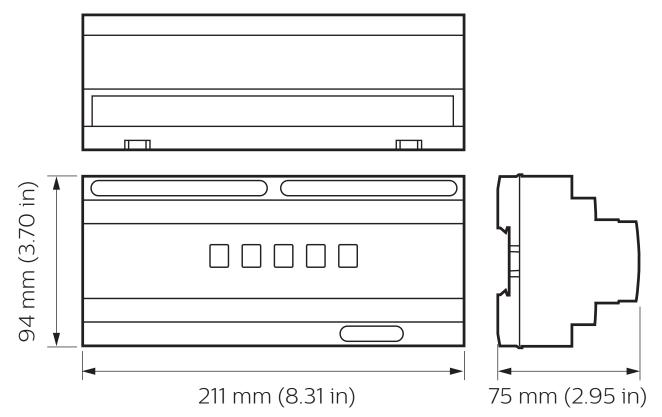
Flexible control of 1-10 V and DALI drivers

The Philips Dynalite DDBC516FR is a five-channel device for controlling DALI drivers. Each control output is selectable to DALI broadcast, DALI addressed, 1-10 V or DSI.

DDBC516FR Flexible control of 1-10 V and DALI drivers

- Multiple protocols supported Each of the five control outputs supports DALI broadcast (maximum ten DALI loads/channel), DALI addressed (maximum ten DALI loads/ channel), 1-10 V (maximum 10 mA sink or source/channel) or DSI (maximum five DSI loads/channel).
- Built-in energy savings Control signals can be programmed to operate in tandem with five internal switched outputs, which will automatically isolate the power circuit when all associated channels are at 0%. This is a useful feature as DALI drivers still draw significant power when lamps are turned off via a DALI command.
- Integral DALI bus power supply Removes the need for an additional external device.
- 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 lamp and driver failure reporting, driver run time tracking for each driver and the switched output, as well as Device Online/Offline status indication.

Dimensions



Specifications Due to continuous improvements and innovations, specifications may change without notice.



DDBC516FR Signal Dimmer Controller

Electrical

Supply Type	Single-Phase
Supply Voltage	100-240 VAC
Supply Current	0.15 A
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	120 mA
Switched Outputs	5 x 16 A feed-through
Output Channel Ratings	(See Page 4)
Maximum CH-CH Voltage	300 VAC (UL) 400 VAC (CE)
Maximum CH-XX-CH Voltage* XX = unpopulated channel (2x terminals) for isolation	480 VAC
IEC Overvoltage Category	III

		Control
1 x RS-485		Serial Ports
DyNet		Supported Protocols
5 sed, DSI or 1-10 V)		Control Channel Outputs
1 (AUX)		Dry Contact Inputs
1 x service switch channel override		User Input
1 x diagnostic LED 5 x channel status LED		Indicators
failure reporting failure reporting runtime tracking line/offline status	**	Diagnostic Functions**

Refer to Installation Instructions for correct terminations for phase separation.

** Philips Dynalite System Manager required for analyzing diagnostic data. The availability of some diagnostics is dependent on driver type.

Physical

Dimensions (H x W x D)	94 x 211 x 75 mm (3.70 x 8.31 x 2.95 in)	
Packed Weight	0.8 kg (1.76 lb)	
Construction	Polycarbonate DIN rail enclosure (12 unit)	
Serial Ports	2 x RJ12 1 x 6-way pluggable screw terminal	
Serial Port Conductor Size	2.5 mm² (#12 AWG) (max)	
Supply Terminals	3 x screw terminal Line, Neutral, Earth	
Supply Terminal Conductor Size	5 mm² (#10 AWG) (max)	
Control Terminals	5 x 2-way screw terminal DA-, DA+	
Control Terminal Conductor Size	2.5 mm² (#12 AWG) (max)	
Output Terminals	5 x 2-way screw terminal IN, OUT	
Output Terminal Conductor Size	5 mm² (#10 AWG) (max)	

Environment***

Operating Temperature	0° to 40°C ambient (32° to 104°F)
Storage/Transport Temperature	-25° to 70°C ambient (-13° to 158°F)
Relative Humidity	0 to 90% non-condensing
IEC Pollution Degree	П

Compliance

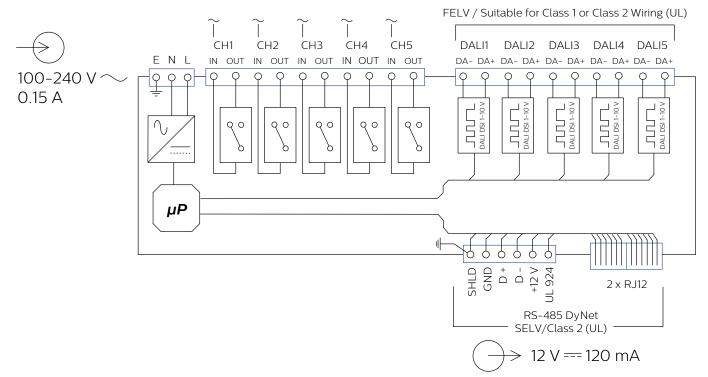
Certification

CE, RCM, UL, FCC, ICES, UKCA, RoHS

*** For indoor installation only



Electrical



Output Channel Ratings

Maximum Rating per Output		
CH1-CH5		
- 16 A, 277 VAC		
		16 FLA (1 HP), 120 VAC 14.5 FLA (2½ HP), 240 VAC 14.1 FLA (3 HP), 277 VAC
		6 A, 120 VAC 3 A, 240 VAC 2.6 A, 277 VAC
500 A		
≤ 80 A		

Control Channel Ratings					
DALI/DSI	Channel	Device			
Guaranteed Current	20 mA				
Maximum Current	250 mA				
Maximum Drivers	10	50			
Insulation	Basic				
1-10 V	Channel				
Current	sink 10 mA source 10 mA				

Ordering Code Product DDBC516FR

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