PHILIPS

dynalite

Load Controllers

DBC905W

DBC905W

Signal Dimmer Controller

Easy-to-install controller with flexible mounting options

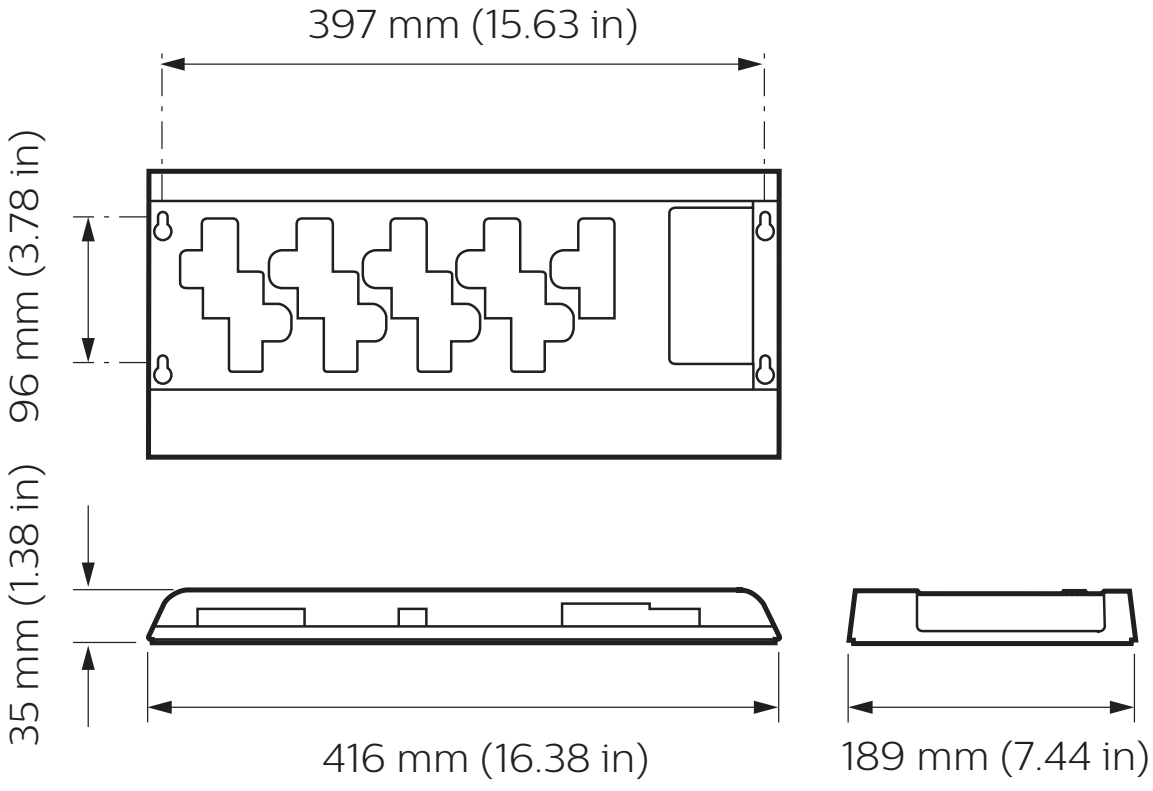
The Philips Dynalite DBC905W is a nine-channel signal dimmer controller, designed for direct installation within ceiling cavities. The device incorporates structured wiring connectors to enable easy connection without the need for specialised tools.

DBC905W

Easy-to-install controller with flexible mounting options

- **Multiple protocols supported** – Each control output supports DALI broadcast, DALI addressed, 1-10V, and DSI protocols.
- **Built-in energy savings –** Control signals can be programmed to operate in tandem with five internal switched outputs that automatically isolate the power circuit when all associated channels are at 0%. This eliminates standby power draw from inactive DALI drivers when lamps are turned off via DALI command.
- **No specialised tools required** – Wieland connectors use readily available pluggable screw terminals for easy termination.
- **Inbuilt diagnostic functionality** – Includes lamp and driver failure, circuit run time tracking/lamp life, automated battery tests, and Device Online/Offline status indication.

Dimensions



Specifications

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

DBC905W
Signal Dimmer Controller

Electrical

Supply Type	Single-Phase
Supply Voltage	230 VAC
Supply Current	16 A
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	400 mA
Switched Outputs	9 x 5 A resistive
Electrical Protection (Standard)	3 x 6.3 A Replaceable HRC fuses (CH1-CH3, CH4-CH6, CH7-CH9+MO)
IEC Overvoltage Category	III

Control

Serial Ports	2 x RS-485
Supported Protocols	DyNet
Control Channel Outputs	9 (DALI Broadcast, DALI Addressed, DSI or 1-10 V)
Control Inputs	4 x voltage-free SPDT switch inputs (momentary or latch)
Dry Contact Inputs	1 (AUX)
User Input	1 x service override switch (All channels to 100%)
Indicators	1 x diagnostic LED
Diagnostic Functions	Lamp failure Driver failure Circuit run time tracking/lamp life Automated battery tests Device online/offline status

Physical

Dimensions (H x W x D)	189 x 416 x 35 mm (7.44 x 16.38 x 1.38 in)
Packed Weight	2.0 kg (4.41 lb)
Construction	Moulded ABS Plastic
Serial Ports	4 x RJ12 1 x 6-way pluggable screw terminal 1 x 3-way pluggable screw terminal
Serial Port Conductor Size	2.5 mm^2 (#12 AWG) (max)
Supply Terminals	1 x 3-way Wieland connector terminal
Input Terminals	4 x 3-way pluggable screw terminal
Input Terminal Conductor Size	2.5 mm^2 (#12 AWG) (max)
Output Terminals	9 x Wieland connector terminal

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	0 to 95% non-condensing
IEC Pollution Degree	II

Compliance

Certification	CE, RCM, UKCA, RoHS

* For indoor installation only

Control Channel Ratings

DALI/DSI	Channel	Device
Output Voltage	12.5 VDC	
Guaranteed Current	15 mA	
Maximum Current	250 mA	
Maximum Drivers	5	45
Insulation	Basic	

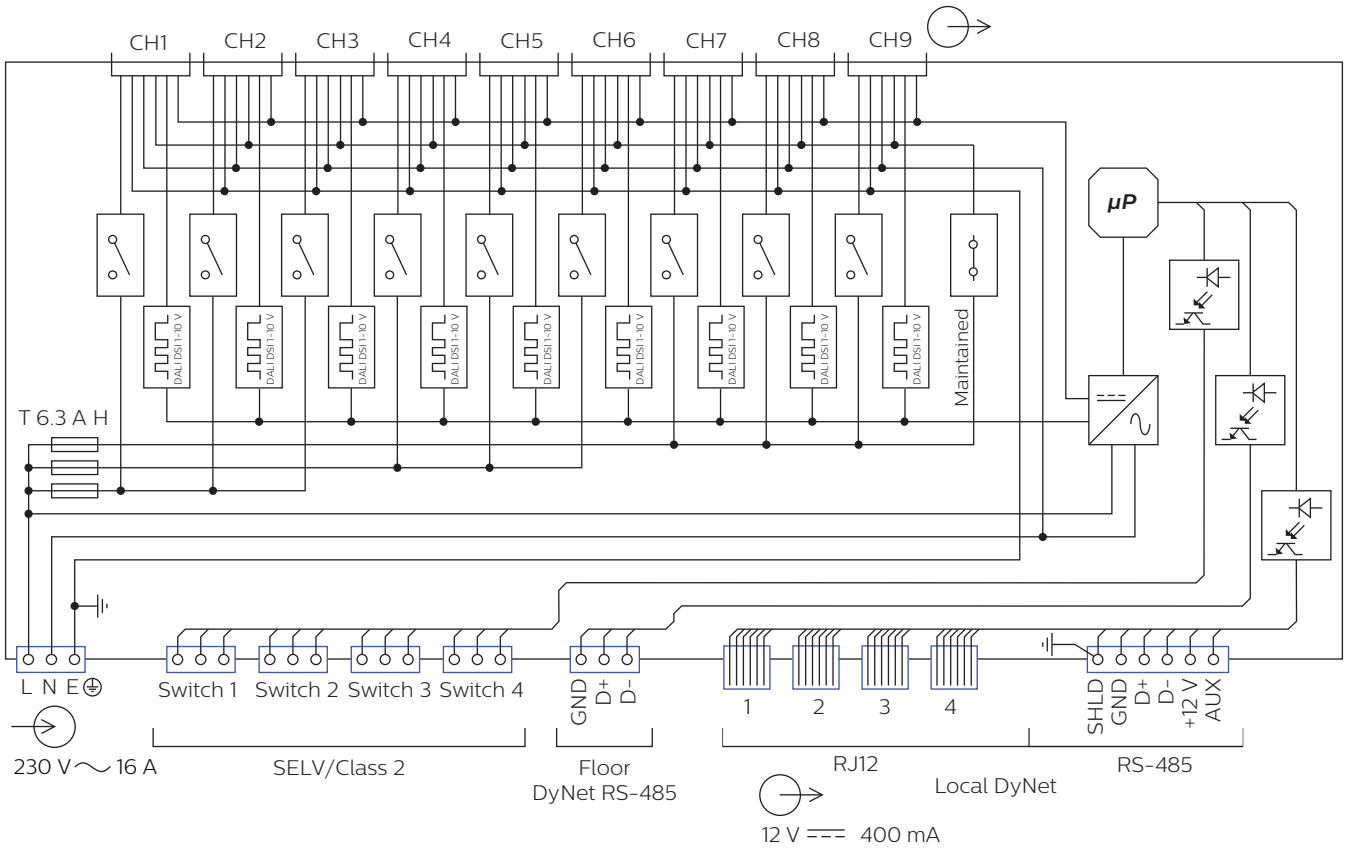
1-10 V	Channel
Current	sink 10 mA source 10 mA

Output Channel Ratings

Load Type	Maximum Rating per Output	
	CH1-CH9	Maintained
General Use	5 A, 230 VAC	5 A, 230 VAC
Electronic Driver	2 A, 230 VAC	
Inrush Current	100 A	

Maximum Group Load	CH1-CH3	CH4-CH6	CH7-CH9 + Maintained
Continuous Current	5 A	5 A	5 A
Inrush Current	100 A	100 A	100 A
Total Device Load	≤ 15 A		

Electrical



Compatible Serial Connectors

Terminals	Vendor - Model	Part Number	
		Standard	Strain Relief
Local DyNet RS-485	Wieland - Wiecon 8113 (Box 50)	25.320.3653.0	25.320.8653.0
	Phoenix Contact - Combicon MSTB 2 (box 50)	1754520 (5/6-ST)	
	PTR	AK950/6-5-0-GREEN	AK950/6L-5.0-GREEN
Switch 1 - Switch 4 Floor DyNet RS-485	Wieland - Wiecon 8113 (Box 50)	25.320.3353.0	25.320.8353.0
	Phoenix Contact - Combicon MSTB 2 (box 50)	1754465 (5/3-ST)	1776168 (5/3-STZ-5,08)
	PTR	AK950/3-5.0-GREEN	AK950/3L-5.0-GREEN

Ordering Code

Product	Philips 12NC
DBC905W	913703040009