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PHILIPS DBC905 Signal Dimmer Controller Owner's Manual

PHILIPS DBC905 Signal Dimmer Controller

DBC905
Signal Dimmer Controller

## Easy-to-install controller with flexible mounting options

The Philips Dynalite DBC905 is a nine-channel signal dimmer controller, designed for direct installation within ceiling cavities. The device incorporates structured wiring connectors, to enable ready connection without the use of tools.

DBC905
Easy-to-install controller with flexible mounting options

- **Multiple protocols supported –** Each control output supports DALI broadcast, DALI addressed, 1-10 V and DSI protocols.
- **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.
- **No tools required –** The device is available with connectors suited to three major modular wiring brands – CMS Electracom, Wieland and Wago.
- **Inbuilt diagnostic functionality –** Includes lamp and driver failure, circuit run time tracking/lamp life, automated battery tests and Device Online/Offline status indication.

Dimensions

397 mm (15.63 in)

96 mm (3.78 in)

35 mm (1.38 in)

416 mm (16.38 in)

189 mm (7.44 in)
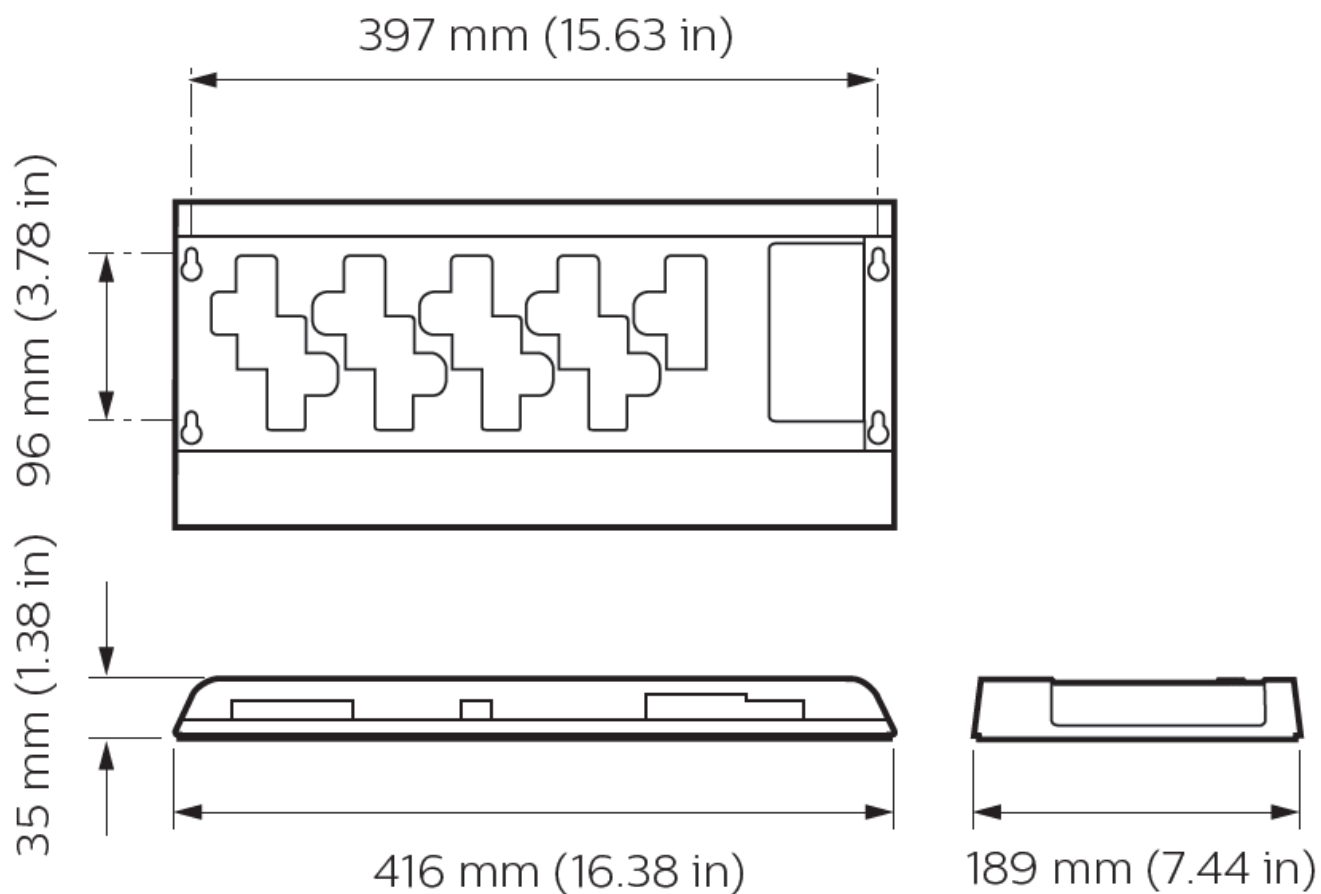
Specifications

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

DBC905
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 (All versions)
- 1 x Maintained NC 5 A resistive (CMS/Wieland only)
- Electrical Protection (Standard) 3 x 6.3 A Replaceable HRC fuses
- (CH1-CH3, CH4-CH6, CH7-CH9+MO)
- Output Channel Ratings (See below)
- 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 Channel Ratings (See below)
- 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 mm2 (#12 AWG) (max)
- Supply Terminals 1 x connector terminal CMS/Wieland/WAGO (See Ordering Codes on Page 4)
- Input Terminals 4 x 3-way pluggable screw terminal
- Input Terminal Conductor Size 2.5 mm2 (#12 AWG) (max)
- Output Terminals 9 x connector terminal CMS/Wieland/WAGO (See Ordering Codes on Page 4)

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

Maximum Rating per Output
Load Type/ 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
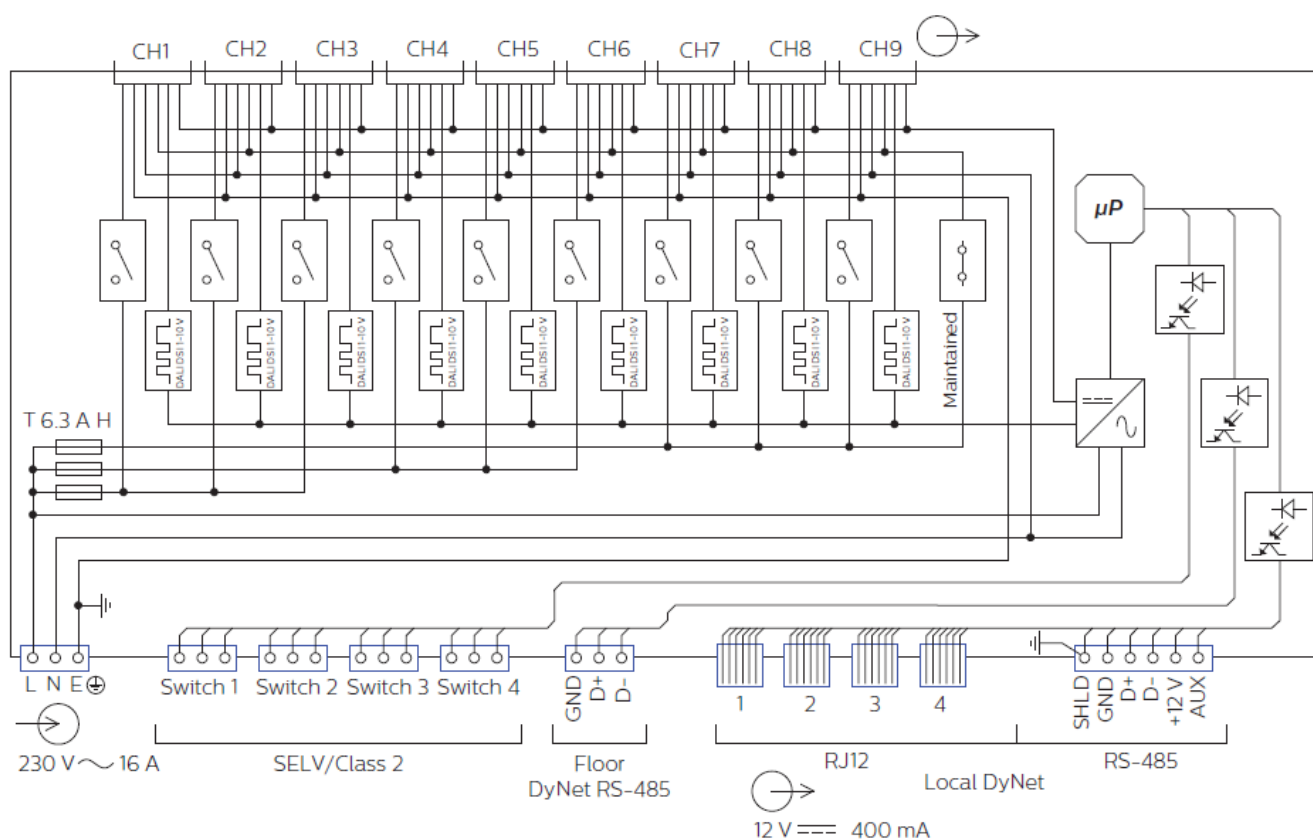
Compatible Serial Connectors

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

- Electrical Product Philips 12NC
- DBC905C (CMS connectors) 913703040509
- DBC905W (Wieland connectors) 913703040009

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www.dynalite.com

Documents / Resources

	PHILIPS DBC905 Signal Dimmer Controller [pdf] Owner's Manual DBC905 Signal Dimmer Controller, DBC905, Signal Dimmer Controller, Dimmer Controller, Controller
	PHILIPS DBC905 Signal Dimmer Controller [pdf] Instruction Manual DBC905, Signal Dimmer Controller, DBC905 Signal Dimmer Controller, Dimmer Controller, Controller

References

- **Philips Dynalite - Lighting Controls, Lighting Management**

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