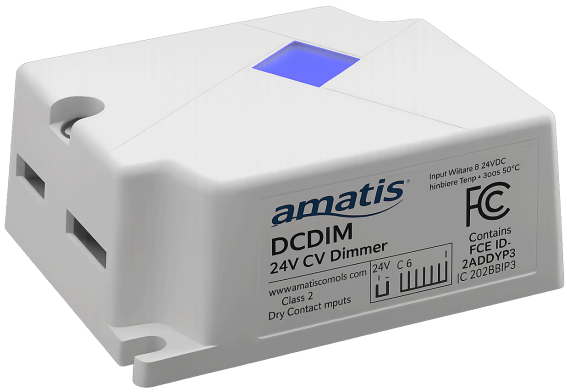
DCDIM

DC load controller and dimming driver

Product specifications



PRODUCT OVERVIEW

The Amatis DCDIM is a DC-powered dimming controller and constant-current driver.

The device provides color-coded push-in terminals, support for color tuning, and reverse-voltage protection.

DCDIM is designed for DC load control and 0-10V dimming applications.

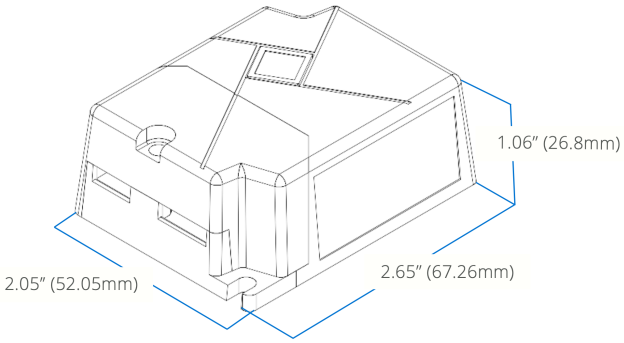
CONFIGURATIONS

DCDIM: Power DC load controller with manual dimming support and 0-10V dimming integration.

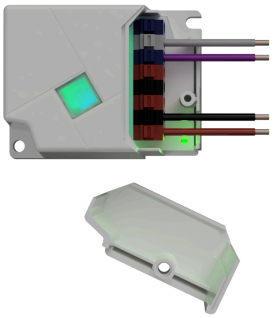
FEATURES

LOAD CONTROL FUNCTIONALITY	Controls individual lights and light groupings
	5AMP DC load supply
	Button can be used for On/Off control and held down for manual dimming
	PWM output able to control dimming of one or more DC loads
	0-10V output able to control dimming of one or more fixtures
	Additional PWM or 0-10V output available for color tuning or up/down light configurations
	Ultra-low power consumption
EASY, PLUG-AND-PLAY INSTALLATION	Push-In spring connectors make for quick and easy installation
	LEDs indicate power and network connection status
SIMPLE STARTUP	Remotely configurable / updateable
	Amatis app easily commissions and all devices on the mesh network via AMBR
	Unique IPv6 address
	Real-time data uploaded to the Energy Dashboard
CODE COMPLIANCE	Complies with ASHRAE 90.1-2016 and CA Title 24 requirements
WARRANTY	5-year limited warranty with uninterrupted connection of the Amatis Border Router device from a network

DIMENSIONS



WIRING COMPARTMENT



Note: Actual performance may vary as a result of end-user environment and application. Specifications subject to change without notice.

*Based on clear line of sight. Interior obstructions may limit range.

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TECHNICAL SPECIFICATIONS

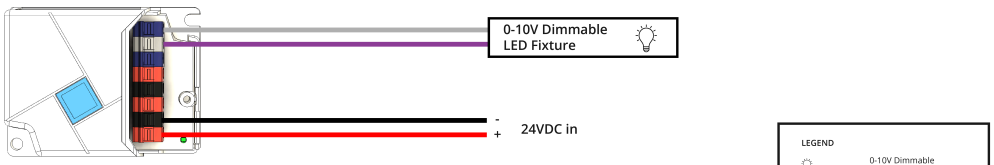
Category	Specification	DCDIM
COMMUNICATION	Wireless transmit range*	Up to 200 feet to nearest mesh connected device
	Communication protocol	Embedded 6LoWireless
	Encryption	AES 128-bit
ELECTRICAL	Input power	9-24VDC
	Output	Class 2, PWM: Max 5 Amps 2 channels available for 0-10V or PWM 0/1-10V dimming, sourcing max: 4.7mA PWM voltage equal to input voltage
	Dimming	0-10V, 1-10V source or sink operation, PWM
MECHANICAL	Dimensions	2.65 x 2.05 x 1.06 in (67.26 x 52.05 x 26.8 mm)
	Enclosure	Type 2, white matte
	Mounting	2 x 4.25 mm mounting holes
	External outputs	On-board button for manual control
ENVIRONMENTAL	Installation environment	Commercial, Indoor/Covered
	Temperature range	5 F (-15 C) to 130 F (+55 C)
GENERAL	Warranty	5-year limited warranty with continuous cloud connection
	Compliance	Device contributes to Amatis system compliance with ASHRAE 90.1-2016 and CA Title 24 requirements

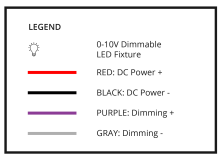
Note: Actual performance may vary as a result of end-user environment and application.

LED INDICATOR REFERENCE

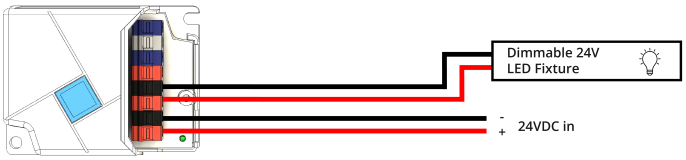
BLUE LED BEHAVIOR	MEANING
OFF	No power (unless disabled)
Slow blink	Looking for network
Fast blink	In pairing mode
Solid	Connected to AMBR (normal)
GREEN LED BEHAVIOR	**MEANING**
OFF	Load OFF
Slow blink	Load ON

MODE 1: Wiring for Low Voltage 0-10V Dimmer





MODE 2: Wiring for LED Constant Voltage Driver



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