

# DIN-2LEDPWM8

## 2 Channel RGBW LED Dimmer, DIN Rail Mount

- Two independently powered and controlled LED dimming outputs
- Each output controls one RGBW LED or LED strip or four independent LEDs or LED strips
- PWM (Pulse Width Modulation) dimming technology for flicker-free dimming
- Controls 12–24 VDC LEDs and LED strips
- 100 W maximum power at 24 VDC @ 5 A
- 60 W maximum power at 12 VDC @ 5 A
- Two Cresnet® control ports for integration with a Crestron® control system and daisy-chain wiring
- Two override inputs accept override signal from an emergency system to raise light levels to 100% (or desired level)
- Front panel interface for control, setup, and device status
- 6U 35 mm DIN rail mountable

The Crestron® DIN-2LEDPWM8 is a two-channel RGBW LED and LED strip dimmer. It uses PWM (pulse width modulation) frequency to provide flicker-free performance throughout the dimming range.

Visit the Crestron® [Lighting Fixture Compatibility](#) page to find out which Crestron lighting devices have been tested and are compatible with third-party lighting fixtures.

### DIN Rail Mounting

The DIN-2LEDPWM8 is designed to snap onto a standard DIN rail for installation in a wall mount enclosure (Crestron DIN-EN series or similar, sold separately) or on a wall panel. DIN rail mounting affords a very space-efficient, cost-effective, and modular solution for configuring complete automation systems. Wiring connections are made using screw terminals positioned along the top and bottom, clearly accessible from the front for easy installation and servicing. When installed in an enclosure utilizing 45 mm cutouts, the DIN-2LEDPWM8's front panel stays accessible while the connections are concealed.

### Cresnet® Communications

The DIN-2LEDPWM8 communicates with a Crestron control system via the Cresnet control network. A pair of Cresnet ports are provided on the DIN-2LEDPWM8 to allow easy daisy-chaining of several Crestron DIN rail devices.

### Override Input

Override inputs are provided to allow an external contact closure to momentarily override the control system program and set each channel output to its preset override level. Levels can be adjusted and saved locally from the front panel or remotely via software.



## Specifications

### Load Ratings

**Dimmed Channels:** 2 RGBW

**Maximum per Channel:** 5 A max per individual RGBW output channel, 5 A max per RGBW output group

**Module Total:** 10 A max

**Load Types:** 12–24 VDC PWM controlled anode RGBW or single color LEDs and LED strips

**Dimming Range:** 0–100%

**PWM Frequency:** 301 Hz (default)

**Configurable:** 120–1,200 Hz

**Dimming Curve:** Linear and logarithmic

### Power Requirements

**IN 1:** 12–24 VDC, 5 A max (60–100 W max) Class 2; Power pass-through to OUTPUT-1

**IN 2:** 12–24 VDC, 5 A max (60–100 W max) Class 2; Power pass-through to OUTPUT-2

### Communications

**Cresnet:** Cresnet slave mode

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### Connectors

**IN 1 (+, -):** (1) set of (2) captive screw terminals;  
Power input and power pass-through to OUTPUT-1;  
Use a 12–24 VDC, 5 A max (60–100 W max) Class 2 power supply (not supplied);  
Ensure proper polarity;  
Wire size: 18–12 AWG

**IN 2 (+, -):** (1) set of (2) captive screw terminals;  
Power input and power pass-through to OUTPUT-2;  
Use a 12–24 VDC, 5 A max (60–100 W max) Class 2 power supply (not supplied);  
Ensure proper polarity;  
Wire size: 18–12 AWG

**OUTPUT-1 (R +, R 1, G +, G 2, B +, B 3, W +, W 4):** (1) set of (8) captive screw terminals;  
R +, G +, B +, and W + terminals are pass-through power from **IN 1 +**;  
R 1, G 2, B 3, and W 4 terminals are PWM dimming control for the R, G, B, and W channels;  
Wiring from OUTPUT-1 must remain separate from OUTPUT-2;  
Accepts 18–14 AWG wires;  
Maximum wire length: 100 ft (30 m)

**OUTPUT-2 (R +, R 5, G +, G 6, B +, B 7, W +, W 8):** (1) set of (8) captive screw terminals;  
R +, G +, B +, and W + terminals are pass-through power from **IN 2 +**;  
R 5, G 6, B 7, and W 8 terminals are PWM dimming control for the R, G, B, and W channels;  
Wiring from OUTPUT-2 must remain separate from OUTPUT-1;  
Accepts 18–14 AWG wires;  
Maximum wire length: 100 ft (30 m)

**NET:** (2) 4-pin 3.5 mm detachable terminal blocks, paralleled;  
Cresnet slave port;  
24 VDC power input (power must be supplied by a [DIN-PWS60](#) power supply (sold separately))

**OVERRIDE:** (2) 2-pin 3.5 mm detachable terminal blocks, paralleled;  
Sensing input for external low-voltage contact closure;  
Activates override mode when a closure is present;  
Minimum Closure Rating: 10 mA (per module) at 24 V

### Controls

**R, G, B, W:** (4) miniature pushbuttons (1) per R, G, B, W channel;

Press to toggle the channel on and off;  
Press and hold to dim the channel up and down

**SETUP:** (1) recessed miniature pushbutton;

Press to acknowledge Touch-Settable ID (TSID) mode

**RESET:** (1) Recessed miniature pushbutton;  
Press to restart the DIN-2LEDPWM8

### Indicators

**R, G, B, W:** (4) Red LEDs (1) per R, G, B, W channel;  
LED lights to indicate that the channel is on;  
All LEDs light when the DIN-2LEDPWM8 is in override mode

**SETUP:** (1) Red LED;

Flashes to indicate that the DIN-2LEDPWM8 is in Touch-Settable ID (TSID) mode

**OVR:** (1) Red LED;  
Lights to indicate that the DIN-2LEDPWM8 is in Override mode;  
The R, G, B, and W LEDs also light to indicate that the channel is on

**PWR:** (1) Green LED;  
Lights to indicate that DC power is supplied to the NET port

**NET:** (1) Amber LED;  
Flashes to indicate communication on the Cresnet network

### Environmental

**Temperature:** 32° to 104°F (0° to 40°C)

**Humidity:** 10% to 90% RH (noncondensing)

**Heat Dissipation:** 6.8 BTU/Hr

### Construction

**Housing:** Plastic, light gray polycarbonate housing with polycarbonate label overlay, UL94 V-0 rated

**Mounting:** 35 mm DIN EN 60715 rail mount, DIN 43880 form factor for enclosures with 45 mm front panel cutout, occupies 6 DIN module spaces (108 mm)

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### Dimensions

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**Height:** 3.57 in. (91 mm)

**Width:** 4.24 in. (108 mm)

**Depth:** 2.34 in. (59 mm)

### Weight

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6.4 oz (181 g)

### Compliance

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CE, ETL Recognized Component, FCC Part B,  
CAN ICES-3 (B)/NMB-3(B)

### Models

#### Available Models

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##### DIN-2LEDPWM8

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This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](https://patents.crestron.com).

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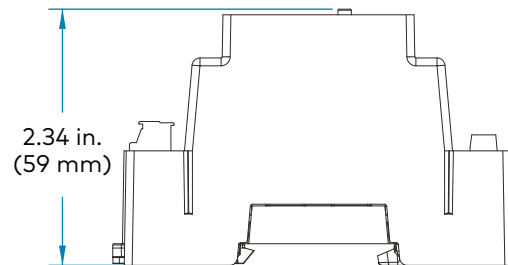
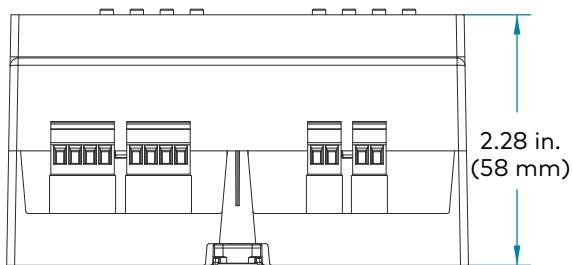
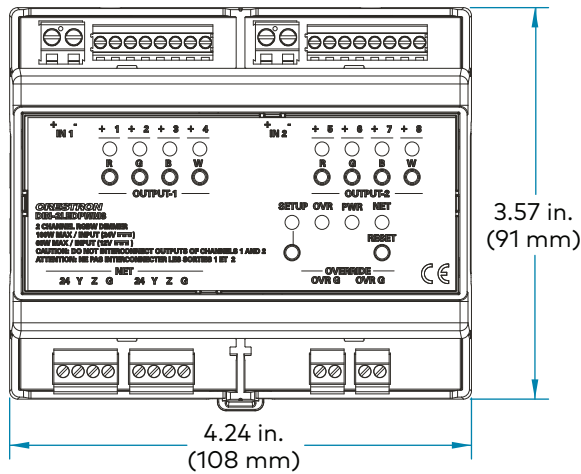
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