

# Crestron CNLDM-6

## 6 Channel Dimmer Module



The CNLDM-6 dimmer module provides 6 independent channels of dimming for incandescent, magnetic low-voltage, forward phase electronic low voltage, 2-wire fluorescent, and neon/cold cathode loads. Each channel can also be configured for switched-only control of non-dimmable loads. Three CNLDM-6 models are available to support 120, 220, or 277 Volt AC applications.

The CNLDM-6 occupies a single module space in any CSTC cabinet. The unit is designed to communicate with the PAC2 or any other 2-Series control system via the Cresnet control network. Simplified termination of all high-voltage wiring to the module is provided via captive screw terminals.

Designed for continuous operation, each of the module's six dimmer channels is controlled by dual back-to-back SCR's rated at 40 Amps, insuring the highest degree of reliability. Lamp filament buzz and EMI/RFI emissions are minimized through high-performance toroid inductors potted in thermally conductive epoxy on each channel. Low-maintenance convection cooling assures quiet and trouble-free operation.

- > 6 channels of dimming
- > For incandescent, magnetic low-voltage, 2-wire fluorescent, forward-phase electronic low voltage, and neon/cold cathode
- > Switch control of non-dimmable loads
- > Available for 120, 220, or 277 Volt AC
- > High-reliability convection-cooled design
- > Toroid inductors on every channel output
- > Occupies 1 module space in a CSTC lighting cabinet
- > Controlled by PAC2 or PAC2M automation control system

### AVAILABLE MODELS

**CNLDM-6** 6 Channel Dimmer Module, 120V

**CNLDM-6 220V** 6 Channel Dimmer Module, 220V

**CNLDM-6 277V** 6 Channel Dimmer Module, 277V

### SPECIFICATIONS

#### Load Ratings

**Dimmer Channels:** 6  
**Per Channel:** 16 Amps  
**Module Total:** 96 Amps  
**Load Types:** Incandescent, Non-Dimmable Fluorescent, 2-Wire Dimmable Fluorescent, Neon/Cold Cathode, Magnetic Low Voltage, Forward Phase Electronic Low Voltage

#### Power Requirements

**Line Power:** 120, 220 or 277 Volts AC, 50-60Hz, single-phase, all feeds must be same phase  
**Cresnet Power Usage:** 1 Watt (0.042 Amp @ 24 Volts DC)

### Connectors

**NET:** (1) 4-pin 5mm detachable terminal block, Cresnet slave port  
Connects to Cresnet control network

**LINE 1 - 6:** (6) Captive screw terminals, line power inputs

**LOAD 1 - 6:** (6) Captive screw terminals, channel outputs

**NEUT:** (1) Captive screw terminal, neutral

### Controls

**ID CODE:** (2) Rotary DIP Switches, set Cresnet ID

**DIM/NON-DIM:** (1) 6-position DIP switch, selects configuration for each channel

**NORMAL/OVERRIDE:** (1) Slide switch, OVERRIDE forces all channels to full on

### LED Indicators

**NET POWER:** (green) Indicates DC power supplied from Cresnet network

**ACTIVITY:** (red) Indicates communication with Cresnet system

**OUTPUTS 1 - 6:** Indicate state of each channel

### Environmental

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

**Humidity:** 10% to 90% RH (non-condensing)

**Heat Dissipation:** 925 BTU/Hour at maximum load

### Enclosure

Gray metal surface mount module, convection cooled

Occupies 1 module space in any CSTC cabinet

### Dimensions

**Height:** 14.50 in (36.83 cm)

**Width:** 6.00 in (15.27 cm)

**Depth:** 7.07 in (17.94 cm)

### Weight

12.0 lb (5.44 kg)

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