Description

The Crestron® DIN-4DIMFLV4 is a 4-channel lighting control module designed to dim 0-10 V drivers and ballasts. A single model supports both 120 V and 220 V to 240 V applications. The DIN-4DIMFLV4 may also be used for switching of non-dimmable lighting loads up to 5 amps* and 1/2 HP motors.

DIN-4DIMFLV4 Specifications

SPECIFICATION	DETAILS
Load Ratings	
Dimmer Channels	4
Maximum Per Channel	5 amps @ 120 to 240 Vac, 50/60 Hz;
	600 W @ 120 Vac;
	1150 W @ 230 Vac;
	1200 W @ 240 Vac, 0.5 HP
	16 amps Resistive
Module Total	20 amps @ 120 to 240 Vac, 50/60 Hz;
	2400 W @ 120 Vac;
	4600 W @ 230 Vac;
	4800 W @ 240 Vac
Dim Load Types	0-10 V fluorescent ballast or LED driver (4-wire);
	Maximum of 30 dimmable ballasts/drivers
Switch Load Types*	Incandescent, magnetic low-voltage, electronic low-voltage, neon/cold cathode, fluorescent, motors
Power Requirements	
Cresnet® Power Usage	4.2 W (0.18 amps) @ 24 Vdc
Enclosure	Light gray polycarbonate housing with polycarbonate label overlay, UL94 V-0 rated, 35 mm DIN EN 60715 rail mount, DIN 43880 form factor for enclosures with 45 mm front panel cutout, occupies 9 DIN module spaces (162 mm)
Environmental	
Temperature	32°F to 104°F (0°C to 40°C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	17 BTU/hr
Dimensions	
Height	43.71 in (95 mm)
Width	6.26 in (159 mm)
Depth	2.35 in (60 mm)
Weight	9.2 oz (260 g)

* May not be compatible with some high inrush current loads.

Additional Resources

Visit the product page on the Crestron website (www.crestron.com) for additional information and the latest firmware updates. Use a QR reader application on your mobile device to scan the QR image.

Installation

WARNING: To avoid fire, shock, or death, turn off the power at the circuit breaker or fuse and test that the power is off before wiring!

CAUTION: This equipment is for indoor use only. Mount in a well-ventilated area. The ambient temperature must be 0ºC to 40ºC (32ºF to 104ºF). The relative humidity must be 10% to 90% (noncondensing).

NOTES: Observe the following points:

- Install and use the DIN-4DIMFLV4 in accordance with appropriate electrical codes and regulations.
- A licensed electrician must install the DIN-4DIMFLV4.

NOTE: Before using the DIN-4DIMFLV4, ensure the device is using the latest firmware. Check for the latest firmware for the DIN-4DIMFLV4 at www.crestron.com/firmware. Firmware is loaded onto the device using the Crestron Toolbox™ software.

Preparing and Connecting Wires

When making the connections, strip the ends of the wires approximately 7/16 in (11 mm). Use care to avoid nicking the conductors. Tighten the connector to 5 in-lb (0.5 to 0.6 N-m). The wire gauge should be 14 to 26 AWG.

Installing the DIN-4DIMFLV4

The DIN-4DIMFLV4 should be used in a well-ventilated area. The venting holes should not be obstructed under any circumstances.

The DIN-4DIMFLV4 is designed for installation on a DIN rail. Refer to the diagram when installing.

Installing the DIN-4DIMFLV4
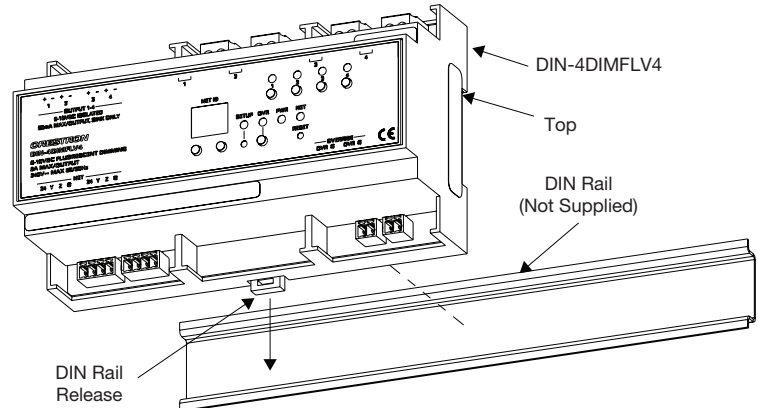
Install the DIN-4DIMFLV4:

1. Use a flat object (e.g., a flat-head screwdriver) to pull the DIN rail release downward.
2. Place the top of the DIN-4DIMFLV4's rail mount over the top of the DIN rail.
3. Tilt the bottom of the DIN-4DIMFLV4 toward the DIN rail until it snaps into place.

> **NOTE**: When mounting DIN rail products, use a flat-head screwdriver to pull the DIN rail release tab while snapping the device onto the DIN rail.

To remove the DIN-4DIMFLV4 from the DIN rail, use a small, flat object (e.g., a flat-head screwdriver) to pull the DIN rail release, and tilt the bottom of the DIN-4DIMFLV4 away from the DIN rail.

> **NOTE**: Certain third-party DIN cabinets provide space for an informational label between each DIN rail row. Crestron's Engraver software (version 4.0 or later) can generate appropriate labels for all Crestron DIN rail products.

Hardware Hookup

> **WARNING**: Prior to connecting the device, turn off the power at the circuit breaker. Failure to do so may result in serious personal injury or damage to the device. Restore power after all connections have been made.
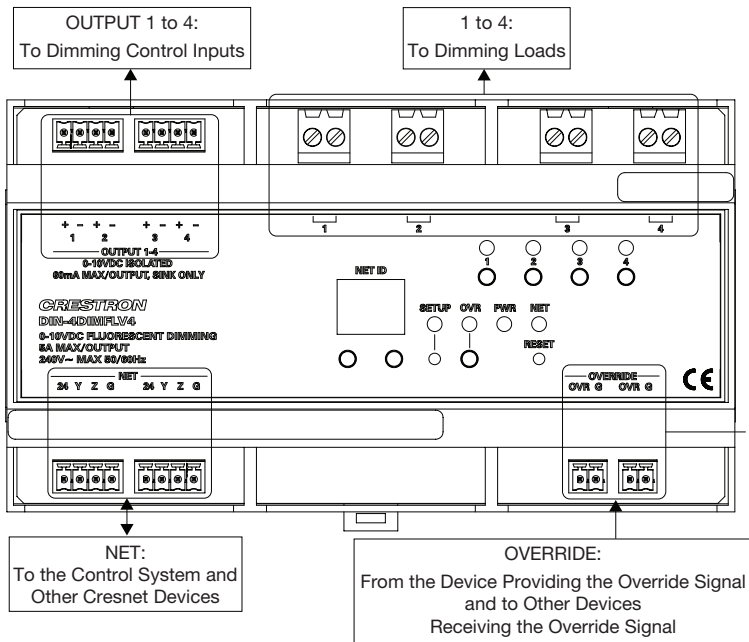
> **CAUTION**: Connecting this device to the wrong type of load or short-circuiting the load can cause severe product damage. Each load should be tested to identify a short-circuit condition prior to wiring the load to the module.

> **NOTE**: Install in accordance with all local and national electric codes.

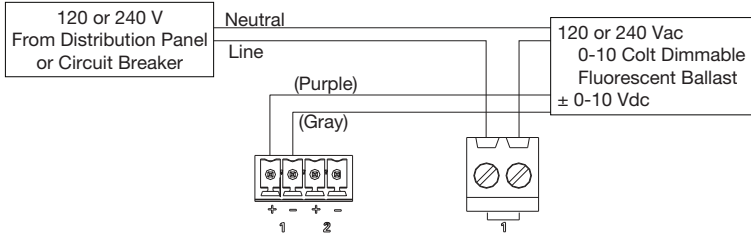> **NOTE**: High-voltage connections accept 2.5 mm² (12 AWG) wire. Wire should be stripped to 8 mm (1/3 in). Tighten terminal blocks to 0.5 N-m (5 in-lbs).

> **NOTE**: Use copper wire only. For high-voltage connections, use wires rated for at least 75°C (167°F).

> **NOTE**: Each channel of the DIN-4DIMFLV4 may be fed from a separate circuit breaker or a single, shared breaker.

Hardware Connections for the DIN-4DIMFLV4

OUTPUT 1 to 4:
To Dimming Control Inputs

1 to 4:
To Dimming Loads

NET:
To the Control System and
Other Cresnet Devices

OVERRIDE:
From the Device Providing the Override Signal
and to Other Devices
Receiving the Override Signal

Detailed View of Connections between Circuit Breaker and Fluorescent Ballast

120 or 240 V
From Distribution Panel
or Circuit Breaker

Neutral

Line

(Purple)

(Gray)

120 or 240 Vac
0-10 Colt Dimmable
Fluorescent Ballast
± 0-10 Vdc

Operation

The DIN-4DIMFLV4 can be controlled via its front panel as well as from a control system. The following local controls are available.

Net ID
Use the NET ID buttons to change the Net ID of the DIN-4DIMFLV4.

Manual Load Control
The lighting level of each of the outputs can be manually controlled from the front panel. To toggle the light between off and 100% (on), tap an output button. The corresponding LED lights, and the output level is shown on the NET ID display ("oF" for off, "On" for on) for two seconds after the button is released.

To ramp the lighting level up or down (until it reaches a limit), press and hold the output button. To change the ramp direction, release the output button, and then press and hold it again. The corresponding LED lights, and the output level is shown on the NET ID display as a percentage (01 to 99) for two seconds after the button is released.

NOTE: The control system program may change the settings if Override mode is not enabled.

Establish Override Mode Levels
Override mode disables the control system program and sets all of the lighting levels to the saved override values. The lighting level of each output can be saved as an override setting, which can be automatically recalled when the Override mode is enabled.

NOTE: The control system program has a setting that can prevent locally saving the override lighting level settings. If this setting is enabled, the display shows "Er" when saving the override lighting level settings.

To save the current lighting level as an override setting, set all of the load levels, and then press and hold the **OVR** button for three seconds. The OVR LED blinks to indicate that the new override setting has been saved.

Toggle Override Mode
To enable Override mode, press and release the **OVR** button. The OVR LED blinks slowly. Override mode can also be toggled via a remote contact closure attached to the OVERRIDE port.

NOTE: If Override mode is enabled from an external device (i.e. a contact closure connected to the OVERRIDE port), the OVR LED blinks quickly when the local **OVR** button is pressed. Pressing the local **OVR** button has no effect when Override mode is toggled via the remote connection.

To disable Override mode, press the **OVR** button again. The OVR LED extinguishes, and the lights return to the levels set by the control system program.

NOTE: If the override lighting levels have not been saved, the factory default override level is 100%.

Reboot the DIN-4DIMFLV4
To reboot the DIN-4DIMFLV4, press the **RESET** button. The outputs are set to the lighting levels currently specified by the control system program. If the control system does not provide any values, the outputs are set to the previously set lighting levels.

Troubleshooting

The following table provides corrective actions for possible trouble situations. If further assistance is required, please contact a Crestron customer service representative.

DIN-4DIMFLV4 Troubleshooting

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
The device does not function.	The device is not receiving power from a Crestron power source.	Use a Crestron power source. Verify that the connections are correct.
	The device is not receiving sufficient power.	Use the Cresnet Power Calculator to help calculate how much power is needed for the system.
	There is electrostatic discharge due to improper grounding.	Check that all the ground connections have been made properly.
The fluorescent lamps stay at minimum intensity.	The + or - wires are reversed or shorted.	Verify that the polarity of the + and - wires at the ballasts and DIN-4DIMFLV4 are correct.
The fluorescent lamps stay at maximum intensity.	The + or - wires are not connected.	Verify that the polarity of the + and - wires at the ballasts and DIN-4DIMFLV4 are correct.