

ADAPTIVE PHASE DIMMER

CENTRALIZED LIGHTING



8-CHANNEL ADAPTIVE PHASE DIMMER

DV-DIN-8DIM-E-V2

The Denver® 8-Channel Adaptive Phase Dimmer controls up to eight loads from one module in the Denver system. It is an adaptive phase dimmer, so each channel supports a variety of load types including incandescent, halogen, electronic low-voltage (solid-state) transformer, magnetic (iron core) low-voltage transformer, fluorescent, compact fluorescent, LED, and motor. The 8-Channel Adaptive Phase Dimmer automatically detects the load type and sets the appropriate dimming mode.

- Controls up to eight loads and supports a variety of load types
- Each channel can be set to different dimming modes including Switch mode, Forward Phase mode, Reverse Phase mode, and Autodetect mode
- Channel buttons allow for toggling on/off or ramping up/down a load
- Channel Status LEDs indicate whether a load is on, off, or in short-circuit fault
- Module Override button allows toggling between the module override scene and all channels off or setting the module override scene to current channel levels
- Module Status LED indicates if module power is on with normal operation, off, or in thermal overload
- Link/Activity LED indicates system link status, communication activity, or firmware update status
- Reset button can be used for factory default or network configuration settings
- Auxiliary override connection allows a standard line-voltage toggle switch to control the attached lights before the control system is installed or in case the controller malfunctions
- Module can be installed in either a Denver 5- or 2-slot panel or a third-party DIN rail panel
- California Title 20 compliant (see denver.co/title20 for more information on Title 20 / Title 24 compliance)

Model number	DV-DIN-8DIM-E-V2
Power requirements	100-120VAC, 50/60 Hz, single phase only
Line in (circuits)	1 or 2
Power consumption	5W
Supported load types	Incandescent, halogen, electronic low-voltage transformer (ELV), magnetic (iron core) low-voltage transformer (MLV)*, fluorescent, compact fluorescent, LED, motor
Control communications	Ethernet

Module load ratings in Denver® panel	120V
Module max with two lines in	3200W
Line 1 in max	1920W
Line 2 in max	1920W
Module max with one line-in	1920W

Module load ratings in standard DIN rail panel	120V
Module max with two lines in	1920W
Line 1 in max	1000W
Line 2 in max	1000W
Module max with one line in	1920W

Individual channel load ratings		120V
Incandescent, tungsten, halogen	Max dimmable	1000W
	Min	2W
ELV, MLV	Max dimmable	1000W
	Min (MLV)	18W
Fluorescent, CFL	Max dimmable	500W
	Max non-dimmable	250W
	Min	2W
LED	Max dimmable	200W
	Max non-dimmable	200W
	Min (except MLV)	2W
	Min (with MLV trans.)	18W
Motor	Max dimmable	N/A
	Max non-dimmable	1/8 HP
	Min	N/A

Connections	
Line voltage screw terminals	16 (Line 1, Line 1 Neutral, Earth Ground, Line 1 Out, Line 2 Neutral, Line 2, Loads 1-8, Aux In, Aux Out)
Recommended wiring size	One 26 AWG to 12 AWG (0.12 mm ² to 2.5 mm ²) per terminal
RJ-45	2 ports—1 Ethernet in, 1 Ethernet passthrough

Environmental

Operational temperature	32 °F to 104 °F (0 °C ~ 40 °C)
Humidity	5% to 95% Non-condensing
Storage	-4 °F to 158 °F (-20 °C ~ 70 °C)
Heat dissipation	175 BTU/hr @120VAC

Dimensions

H × W × D 8.6 × 4.5 × 2.2 in. (219 × 115 × 57 mm)
DIN module width 12M
Weight 2.7 lbs (1.2 kg)
Shipping weight 3.2 lbs (1.4 kg)

***Important! When dimming MLV loads, each transformer must be loaded to at least 50% of its maximum load.**

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