

ADAPTIVE PHASE DIMMER

CENTRALIZED LIGHTING



DIN-RAIL 8-CHANNEL ADAPTIVE PHASE DIMMER

C4-DIN-8APD-E

The Control4® DIN-Rail 8-Channel Adaptive Phase Dimmer controls up to eight loads from one module in the Control4 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 DIN-Rail 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 Control4 5- or 2-slot panel or a third-party DIN rail panel
- California Title 20 compliant (see ctrl4.co/title20 for more information on Title 20 / Title 24 compliance)

CONTROL4 DIN-RAIL 8-CHANNEL ADAPTIVE PHASE DIMMER

Model number	C4-DIN-8APD-E
Power requirements	100-277VAC, 50/60 Hz UL Certified 240VAC, 50 Hz CE Certified
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 Contro4® panel	120V	240V	277V
Module max with two lines in	3200W	6000W	6000W
Line 1 in max	1920W	3840W	3840W
Line 2 in max	1920W	3840W	3840W
Module max with one line in	1920W	3840W	4400W

Module load ratings in standard DIN rail panel	120V	240V	277V
Module max with two lines in	1920W	3840W	N/A
Line 1 in max	1000W	2000W	N/A
Line 2 in max	1000W	2000W	N/A
Module max with one line in	1920W	3840W	N/A

Individual channel load ratings		120V	240V	277V
Incandescent, tungsten, halogen	Max dimmable	1000W	2000W	2300W
	Min	2W	2W	2W
ELV, MLV	Max dimmable	1000W	1000W	1000W
	Max non-dimmable	500W	500W	500W
Fluorescent, CFL	Min	18W	18W	18W
	Max dimmable	500W	500W	500W
	Max non-dimmable	250W	250W	250W
LED	Min	2W	2W	2W
	Max dimmable	200W	200W	200W
	Max non-dimmable	200W	200W	200W
Motor	Min (except MLV)	2W	2W	2W
	Min (with MLV trans.)	18W*	18W*	18W*
	Max dimmable	N/A	N/A	N/A
	Max non-dimmable	1/8 HP	1/8 HP	1/8 HP
	Min	N/A	N/A	N/A

MOST RECENT VERSION



ctrl4.co/8chdim-ds

INSTALLATION GUIDE



ctrl4.co/8chdim-ig

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.