

DIN Rail Load Controller, 0-10V Dimmer, 16A, 100-277V for Zūm® Lighting Control with Net and Link Communication



- *Zūm® wired DIN rail mounted lighting load dimmer*
- *Dimming control of 0-10V LED drivers or 4-wire fluorescent ballasts*
- *Integration with Zūm modules, keypads, presence detectors, and daylight sensors (sold separately)*
- *Ethernet network connection to ZUM-HUB4 control system (sold separately)*
- *Integrated contact closure input*
- *4M wide DIN rail mounting*

The Zūm® wired ZUMNET-DIN-16A-LV provides 0-10V dimming for drivers and devices. The device can be wired to Zūm devices for network expansion and to Zūm Link devices for in-room control. Energy-saving options are available to enable daylighting, occupancy or vacancy sensing, and centralized monitoring and management. Room setup can be accomplished quickly through the Zūm app.

Zūm Net Wired Technology

In a Zūm network, Zūm Net load controllers facilitate communications between rooms via Ethernet and can be daisy-chained for network expansion. Each device in the chain communicates to a Zūm Hub control system for centralized monitoring, management, and reporting. Zūm Link devices connect to Zūm Net devices to provide in-room lighting control. Zūm Link devices work together in a local ecosystem to provide customized solutions.

Zūm Link Wired Technology

Zūm Link technology enables in-room lighting control through keypads and sensors wired to controllers. Zūm Wired devices connect via CBL-CAT5E-ZUMLINK-P CAT5e cable (sold separately) to RJ-45 ports to provide simple daisy-chaining and lighting control of compatible loads. The Zūm Wired devices work together in a local ecosystem to provide customized solutions using the Zūm app.

Energy Management and Efficiency

The load controllers are capable of energy monitoring through custom programming. Occupancy sensor, vacancy sensor, and daylight sensor connectivity enables significant energy savings. To reduce energy usage, lights turn off automatically when the room is vacant and dim gradually depending on the amount of natural daylight in the room.

DIN Rail Mounting

DIN rail Zūm devices snap onto a standard DIN rail for installation in a wall mount enclosure (Crestron [DIN-EN](#) series or similar) or on a wall panel.

Override Contact Closure Input

An integrated contact closure provides the means to place all connected Zūm Net and Zūm Link devices into Emergency Override mode.

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Specifications

Load Control

Dim Load Types	0-10V LED drivers or electronic drivers (4-wire)
Dim Control Output	0-10VDC, 60mA maximum sink or source
Line Voltage	100-277VAC, 50/60 Hz
Switch Load Types	LED, electronic drivers, incandescent, magnetic low-voltage, electronic low-voltage, neon/cold cathode, high-intensity discharge, small motor loads
Switch Rating	16A 100-277VAC, 50/60 Hz; 1 HP @ 120-277VAC
Switch Lifetime	General Rating: 100,000 on/off operations, 16A @ 277VAC; Motor Rating: 100,000 on/off operations, 1HP @ 120/230/277VAC;

Zūm Link Power Bus Requirements

Max Current Consumption	120mA <i>With 0-10V load (60mA), without sensor terminal.</i>
Max Allowable Sensor Terminal Current	85mA <i>Passthrough from Zūm Link bus</i>

Wired Communications

ZUMNET	(2) RJ-45 ports; Input for control system connection or Zūm Net device; Output for Zūm Net device daisy-chaining
ZUMLINK	(2) RJ-45 ports; In-room Zūm Link device daisy-chaining
24V, OCC, GND	Occupancy sensor input; Spring clamp connector; Each terminal accepts one 20-24 AWG solid wire
24V, PHO, GND	Photo sensor input; Spring clamp connector; Each terminal accepts one 20-24 AWG solid wire
OVR, GND	Override control input; Spring clamp connector; Each terminal accepts one 20-24 AWG solid wire

Controls and Indicators

TEST	(1) Pushbutton and (1) bi-color green/red LED; Push to toggle the switched load output on and off; Press and hold to cycle the dimming level up and down; LED lights green when load is on; LED lights red when a fault is detected
ZUMLINK Status	(1) bi-color green/red LED; LED lights green in normal operation; LED lights red when a fault is detected
ZUMNET Status	(1) bi-color green/red LED; LED lights green in normal operation; LED lights red when a fault is detected

Connections

N, L, SW (Neutral, Line, Switch)	(1) 3-pin terminal block; Each terminal accepts one 12-24 AWG wire
0-10V	(2) 0-10VDC dimming control output; Spring clamp connector; Each terminal accepts one 12-24 AWG solid wire or 14-24 AWG stranded wire

Environmental

Local In-Cabinet Air Temperature	32° to 131°F (0° to 55°C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	7 BTU/hr @ 0A; 13 BTU/hr @ 16A

Construction

Light gray polycarbonate housing with polycarbonate label overlay, 71 mm DIN rail mount, occupies 4M DIN module spaces, DIN 43380 for factor for enclosures with 45 mm front panel cutout

Dimensions

Height	3.69 in. (94 mm)
Width	2.79 in. (71 mm)
Depth	2.32 in. (59 mm)

Weight

5 oz (142 g)

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Compliance

Regulatory Model: M202231002

Intertek® Recognized for US & Canada, CE, FCC Part 15 Class B, IC, WEEE

Model

ZUMNET-DIN-16A-LV

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Available Accessories

For a list of available accessories, visit the ZUMNET-DIN-16A-LV product page.

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