

Zūm® Wired J-Box Load Controller, 0-10V Dimmer, 16A, 100-277V with Net and Link Communication



- *Zūm® wired junction box mounted lighting load dimmer*
- *Dimming control of 0-10V LED drivers or 4-wire fluorescent ballasts*
- *Integration with Zūm keypads, presence detectors, and daylight sensors (sold separately)*
- *Ethernet network connection to ZUM-HUB4 control system (sold separately)*
- *Integrated contact closure input*
- *Flying lead wiring connections*
- *Knockout mount to a standard 4 in. square junction box*

The Zūm® wired ZUMNET-JBOX-16A-LV provides zero cross switching for high inrush lighting loads and 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.

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 provide daisy-chaining and lighting control of compatible loads.

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.

Easy Installation

For flexibility and ease-of-use, install Zūm devices (load controllers, keypads, and presence detectors) and connect them with Zūm Link ([CBL-CAT5E-ZUMLINK-P](#)) or Zūm Net ([CBL-CAT5E-ZUMNET-P](#)) CAT5e cable. Nonsystem occupancy, vacancy, or daylight sensors may also be installed in a Zūm space wired to the a load controller.

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
Load Rating	16A 100-277VAC, 50/60 Hz; 0.5 HP @ 120-277VAC

Wired Communications

ZUMNET (LAN)	(2) RJ-45 ports; Input for control system connection or Zūm Net device; Output for Zūm Net device daisy-chaining
ZUMLINK (ROOM)	(2) RJ-45 ports; In-room Zūm Link device daisy-chaining; 85mA power available for Zūm Link devices, including ZUMLINK-KP keypads; Maximum 750mA pass-through current including any internal power supply
24V, OCC, GND	Occupancy sensor input; 85mA available output current; 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) Push button 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
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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
24V	(1) Green LED
O	(1) Red LED
D	(1) Yellow LED
OVR	(1) Green LED

Connections

Black	(1) 14 AWG Class 1 flying lead; Line (AC power input)
White	(1) 14 AWG Class 1 flying lead; Neutral
Red	(1) 14 AWG Class 1 flying lead; Power monitoring, (AC power output)
Purple	(1) 18 AWG Class 1 flying lead, purple, 0-10VDC dimming control output, positive
Pink	(1) 18 AWG Class 1 flying lead; 0-10VDC dimming control output, negative

Environmental

Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (noncondensing)

Construction

Housing	Plastic, white, UL 94 5VA flame rated
Mounting	Mounts to the side of a 4 in. square junction box via a 1/2 in. conduit knockout; Meets the requirements of UL 2043 for installation in an environmental air-handling (plenum) space

Dimensions

Height	4.83 in. (123 mm)
Width	4.25 in. (108 mm)
Depth	2.03 in. (52 mm)

Weight

7 oz (199 g)

Compliance

Regulatory Model: M201933001
cUL916, cUL2043

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Intertek® Listed for US & Canada, IC, FCC Part 15 Class A digital device, UL 916, UL 2043, UL 94 5VA

Model

ZUMNET-JBOX-16A-LV

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Available Accessories

For a list of available accessories, visit the [ZUMNET-JBOX-16A-LV](#) product page.

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Rev 05/09/25

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