

DIN Rail Universal Dimmer Module for Zūm® Lighting Control



- *Zūm® wired DIN rail single-channel universal lighting dimmer*
- *Supports dimmable LED, incandescent, electronic low-voltage, magnetic low-voltage, neon/cold cathode, and 2-wire fluorescent lighting loads*
- *Zūm Link in-room device daisy chaining*
- *Zero-cross filter technology for reduced lamp flicker*
- *Auto load-type detection*
- *Forward, reverse, and center phase dimming modes*
- *Extreme stability under noisy power line conditions*
- *DIN rail mounted in a NEMA Type 1 enclosure*
- *Rated 500 W @ 100-120 VAC*
- *Rated 1,000 W @ 220-277 VAC*
- *3M wide DIN rail mounting*

The ZUMLINK-DIN-DIMU is a single-channel universal dimmer and load controller designed to control a wide range of dimmable lighting load types. Using proprietary zero-cross filter technology, the ZUMLINK-DIN-DIMU provides superior immunity to power line noise, resulting in significant reduction of lamp flicker.

Energy-saving options, such as Zūm link presence detectors or analog photosensors (sold separately) are available to enable

daylighting, occupancy or vacancy sensing, integration, and centralized monitoring and management. Room setup can be accomplished quickly through the Zūm app.

Auto-Detecting Universal Dimming

Under normal operation, the universal dimmer detects the connected load type and automatically selects the appropriate operating mode. Reverse phase (trailing edge) mode supports incandescent and electronic low-voltage load types, while forward phase (leading edge) mode supports LED, magnetic low-voltage, neon/cold-cathode, and 2-wire fluorescent load types. Center phase mode is also available, combining reverse and forward phase load control to address special cases. The operative mode is indicated by four LEDs on the front of the device: REV, FWD, CENTER, and AUTO.

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.

DIN Rail Universal Dimmer Module for Zūm® Lighting Control

Specifications

Load Control

Dimmer Channels	1
Load Rating	500 W or 5,000 VA @ 100-120 VAC; 1,000 W or 1,000 VA @ 220-277 VAC
Line Voltage	100-277VAC, 50/60 Hz
Dimmable Load Types:	Incandescent, LED, electronic low-voltage, magnetic low-voltage, neon/cold cathode, 2-wire fluorescent

Zūm Link Power Bus Requirements

Max Current Consumption	50mA <i>Without sensor terminal.</i>
Max Allowable Sensor Terminal Current	85mA <i>Passthrough from Zūm Link bus</i>

Communications

Zūm Link	(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 wire
24V, PHO, GND	Photo sensor input; Spring clamp connector; Each terminal accepts one 20-24 AWG wire
OVR, GND	Override control input; Spring clamp connector; Each terminal accepts one 20-24 AWG wire

Controls and Indicators

TEST	(1) Pushbutton and bi-color green/red LED; LED lights green in normal operation; LED lights red when a fault is detected
DIM MODE	(1) Pushbutton, press to cycle through dimming modes: auto detect (default), reverse phase, forward phase, or center phase
AUTO	(1) Red LED, indicates auto load type detection is selected and enabled
REV	(1) Red LED, indicates reverse phase mode is enabled (automatically or manually)
FWD	(1) Red LED, indicates forward phase mode is enabled (automatically or manually)

CENTER	(1) Red LED, indicates center phase mode is enabled (manually)
LINK	(1) bi-color green/red LED; LED lights green in normal operation; LED lights red when a fault is detected

Connections

N, L, DIM (Neutral, Line, Dimming)	(1) 3-pin terminal block; Each terminal accepts one 12-24AWG wire
------------------------------------	--

Environmental

Local In-Cabinet Air Temperature	32° to 122°F (0° to 50°C) for Crestron DIN-EN series or similar; Third-party enclosures are supported, Contact Crestron for details.
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	20 BTU/hr

Construction

Light gray polycarbonate housing with polycarbonate label overlay, DIN rail mount, occupies 3M module spaces, DIN 43380 for factor for enclosures with 45 mm front panel cutout

Dimensions

Height	3.69 in. (94 mm)
Width	2.08 in. (53 mm)
Depth	2.32 in. (59 mm)

Weight

4 oz (133 g)

Compliance

Regulatory Model: M202231002

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

Model

ZUMLINK-DIN-DIMU

DIN Rail Universal Dimmer Module for Zūm® Lighting Control

DIN Rail Universal Dimmer Module for Zūm® Lighting Control

Available Accessories

For a list of available accessories, visit the ZUMLINK-DIN-DIMU product page.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

Crestron, the Crestron logo, and Zūm are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. ASHRAE is either a trademark or registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. in the United States and/or other countries. ICC and International Energy Conservation Code are either trademarks or registered trademarks of International Code Council, Inc. in the United States and/or other countries. Intertek is either a trademark or registered trademark of Intertek Group in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography.

Specifications are subject to change without notice.

©2024 Crestron Electronics, Inc.

Rev 05/21/24

DIN Rail Universal Dimmer Module for Zūm® Lighting Control

