

# LEVITON OMNI-BUS RELAY MODULE DIN RAIL

## Cat. No. 112A00-1

### Installation Instructions and User's Guide

DI-021-OB121-08A  
(112100-1)

#### INSTALLATION

**ENGLISH**

#### WARNINGS AND CAUTIONS

- **TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!
- If you are unsure about any part of these instructions, consult an electrician.
- **SAVE THESE INSTRUCTIONS.**

#### SPECIFICATIONS

- 2 A @ 28 V
- Bus side supply voltage: 15-24VDC (via bus network cable)
- Bus side supply current: 100mA maximum
- Memory capacity (linked devices): 32 per channel
- Ambient Temperature: 0 – 40 °C (32 – 104 °F)
- Ingress Protection: IP20
- Dimensions: 70mm (width) x 58mm (height) x 86mm

#### INSTALLATION

- The relay module should only be installed by a suitably qualified person
- This Relay Module is not designed for use with fluorescent, compact fluorescent, metal halide, sodium vapor lamps, or any appliances
- Use with an external relay or contactor for non-resistive loads or loads higher than 2A
- Relay Modules should be installed in a suitable distribution box fitted with 35mm din rail or other suitable enclosure
- In a mains application, ensure that the mains power has been switched off before commencing installation
- All mains wiring should be done in accordance with local authority wiring regulations
- A safe isolation distance should be kept between all mains wiring and the Bus network cable
- See the Leviton Omni-Bus Network Installation Guide for more information on the Bus network wiring

#### SETUP

- To link an Omni-Bus Wall Switch button to the Relay Module without using the Leviton OMNIBUS installation software:
  - Enter program mode by pressing and holding one of the channel buttons on the relay module until the LED starts flashing amber
  - Press and hold the wall switch button until the wall switch LED flashes at a faster rate
  - Press and release the relay module button to exit program mode
- To change the mode of a channel without using the OMNIBUS installation software:
  - Press and hold the MODE button. The number of flashes on each channel LED indicates the current mode for that channel (see Operating Modes)
  - While pressing the MODE button, press and hold one of the channel buttons to change the mode for that channel
- Setup from OMNIBUS installation software:
  - Enter the relay module setup by double clicking on the device channel in the device list after a LIST DEVICES
  - The operating mode for each channel on the Relay Module can be set individually
  - Use the Setup Tab to change the operating mode of the selected channel:
  - Use the Links Tab to link input devices (wall switches and remote controls) to the dimmer device



#### STATUS LED

- **Green:** Relay OFF
- **Red:** Relay ON
- **Flashing amber:** Program mode active

#### FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at **1 800 405-5320**.

#### LEVITON LIMITED WARRANTY

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that products manufactured by Leviton under the Leviton brand name ("Product") will be free from defects in material and workmanship for the time periods indicated below, whichever is shorter: • **OmniPro II and Lumina Pro:** three (3) years from installation or 42 months from manufacture date. • **OmniLT, Omni ILE, and Lumina:** two (2) years from installation or 30 months from manufacture date. • **Thermostats, Accessories:** two (2) years from installation or 30 months from manufacture date. • **Batteries:** Rechargeable batteries in products are warranted for ninety (90) days from date of purchase. **Note:** Primary (non-rechargeable) batteries shipped in products are not warranted. • **Products with Windows® Operating Systems:** During the warranty period, Leviton will restore corrupted operating systems to factory default at no charge, provided that the product has been used as originally intended. Installation of non-Leviton software or modification of the operating system voids this warranty. Leviton's obligation under this Limited Warranty is limited to the repair or replacement, at Leviton's option, of Product that fails due to defect in material or workmanship. Leviton reserves the right to replace product under this Limited Warranty with new or remanufactured product. **Leviton will not be responsible for labor costs of removal or reinstallation of Product.** The repaired or replaced product is then warranted under the terms of this Limited Warranty for the remainder of the Limited Warranty time period or ninety (90) days, whichever is longer. This Limited Warranty does not cover PC-based software products. **Leviton is not responsible for conditions or applications beyond Leviton's control. Leviton is not responsible for issues related to improper installation, including failure to follow written Installation and operation instructions, normal wear and tear, catastrophe, fault or negligence of the user or other problems external to the Product.** To view complete warranty and instructions for returning product, please visit us at [www.leviton.com](http://www.leviton.com).

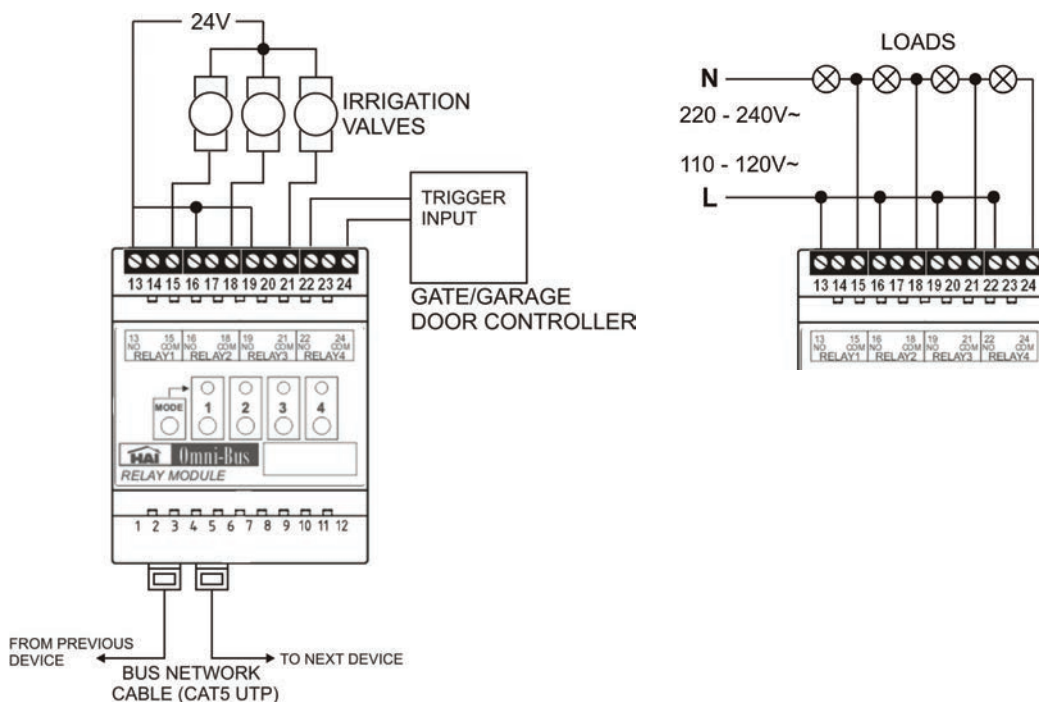
## OPERATING MODES

- ON/OFF:** Relay output switches on or off when receiving an on, off or toggle command from an input device (the output state will be restored after a power failure for this mode only)
- Momentary:** Relay contact remains closed as long as any command is received from an input device
- 1 Second Pulse:** Relay output pulses 1 second when any command is received
- 3 Second Pulse:** Relay output pulses 3 seconds when any command is received
- Irrigation 15min:** Relay stays on for maximum 15 minutes after receiving an on command or until an off command
- Irrigation 30min:** Relay stays on for maximum 30 minutes after receiving an on command or until an off command
- Irrigation 45min:** Relay stays on for maximum 45 minutes after receiving an on command or until an off command
- Irrigation 60min:** Relay stays on for maximum 60 minutes after receiving an on command or until an off command
- Programmable Pulse Length:** Same as modes 3 and 4 but the pulse length can be set from 1 to 255 seconds (via OMNIBUS software)
- Programmable Irrigation Time:** Same as modes 5 to 8 but the timeout period can be set from 1 to 255 minutes (via OMNIBUS software)
- Change over:** Channels 1 and 2 or Channels 3 and 4 can be used in combination for curtain or projector screen controllers. Changing the mode on channel 1 or channel 3 to Change over will automatically change the mode on channel 2 or 4 to change over as well. The operation of the Change over mode is as follows:
  - On Command received: Channel switches ON. Paired channel switches OFF.
  - Off Command received: Channel switches OFF. Paired channel switches ON.
  - Up or Down command received: Both channels switch off.

### Change Over mode application example:

- Wire channel 1 on the relay module to control the open function of a window blind controller.
- Wire channel 2 on the relay module to control the close function of the blind controller.
- Set the operating mode of the relay module channel 1 to Change Over.
- Link all three buttons of a 3-Button wall switch to channel 1 on the relay module.
- Set the wall switch button 1 mode to ON, button 2 to UP and button 3 to OFF.
- Pressing button 1 on the wall switch will open the blind, pressing button two will stop the blind and pressing button 3 will close the blind.

## WIRING DIAGRAMS



Para descargar este documento en español, siga este enlace: <http://leviton.com>

Per descarregar aquest document en català, seguiu aquest enllaç: <http://leviton.com>

Per scaricare questo documento in italiano, segui questo link: <http://leviton.com>

Pour télécharger ce document en français, suivez ce lien: <http://leviton.com>

Um dieses Dokument in deutscher Sprache herunterladen, folgen Sie diesem Link: <http://leviton.com>

### FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Copyright and Trademark Information

This document and all its contents herein are subject to and protected by international copyright and other intellectual property rights and are the property of Leviton Manufacturing Co., Inc, its subsidiaries, affiliates and/or licensors. © 2013 Leviton Manufacturing Co., Inc. All rights reserved.

Use herein of third party trademarks, service marks, trade names, brand names and/or product names are for informational purposes only, are/may be the trademarks of their respective owners; such use is not meant to imply affiliation, sponsorship, or endorsement.

No part of this document may be reproduced, transmitted or transcribed without the express written permission of Leviton Manufacturing Co., Inc.