INPUT/OUTPUT INTERFACE

LMIO-101

Input/output interface for integration of third party devices

Component of Digital Lighting Management integrated control systems

Hinged dust cover protecting two RJ45 ports

Fits into standard single gang wallbox; optional DIN rail mounting

Status LED for each input and output

Isolated relay inputs for up to two control devices

DESCRIPTION

The LMIO-101 Input/Output Interface allows seamless integration with third party devices to provide additional functionality in a Digital Lighting Management (DLM) system.

OPERATION

The LMIO-101 operates on power from the DLM local network. It contains a 24VDC isolated relay (single-pole, double throw with normally open (N/O), normally closed (N/C), and common outputs) for output to other systems. The isolated relay can respond to any DLM occupancy sensor on the DLM local network. The LMIO-101 also includes a 24VDC output and four input terminals for maintained or momentary switch closure inputs, or third party logic inputs. Input signals may come from a wide variety of devices including building automation systems, time clocks and key switches, for purposes including hold-on/hold-off, load shedding and cleaning. The LMIO-101 has DIP switch-selectable profiles to allow different combinations of input signals to control different loads.

DEFAULT AND PERSONALIZED OPERATION

In Plug n' Go automatic configuration mode, the isolated relay responds to every occupancy sensor on the DLM local network. Unlike the LMRL-100, the LMIO-101 can be reconfigured to respond only to selected occupancy sensors. Default operation for third party inputs is based on the configuration of the device's DIP switches. To change the occupancy sensor assignment, the user must access Push n' Learn mode, either directly from the LMIO device or via the LMCS software. With Push n' Learn, users may assign any load or sensor in a DLM local network to any input on the LMIO device.

APPLICATIONS

The LMIO-101 is ideal for applications where integration of third party devices with lighting control is desired. The isolated relay allows coordinated control of lighting and HVAC based on occupancy detection while the multiple inputs permit control of any load on a DLM local network by other equipment, systems and devices. Applications include private and open offices, conference rooms, classrooms, training centers, lunch rooms and break rooms.

FEATURES

- Plug n' Go™ configuration for quick and easy startup out of the box
- Push n' Learn™ functionality for personalizing system settings to accommodate application needs
- Self-contained switching power supply and relay system
- Five status LEDs and configuration LED
- Over-current protection
- Hold-on/hold-off, occupancy sensor, time clock, load shed, cleaning switch and key switch modes available through DIP switch configurations
- UL 2043 plenum rated
- The product meets the materials restrictions of RoHS
- BAA/TAA-compliant models available

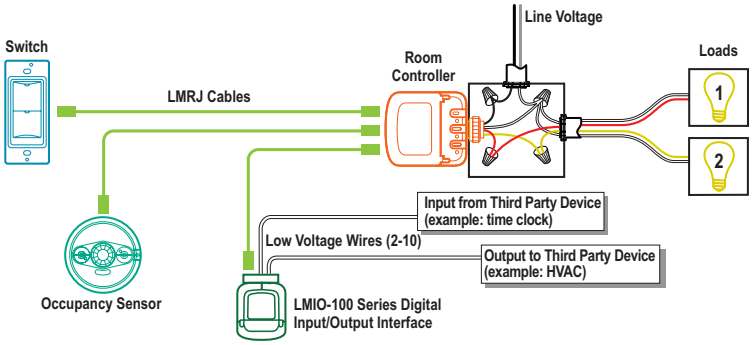
PROJECT		LOCATION/ TYPE	

SPECIFICATIONS

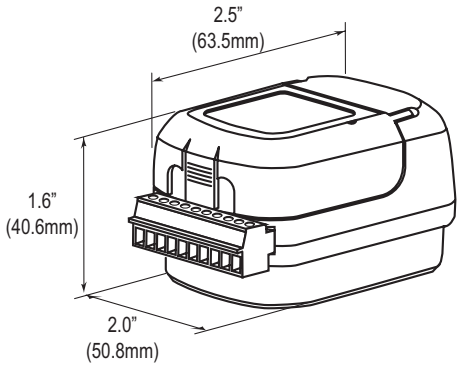
- Input/output voltage: 24VDC from DLM network
- Maximum current consumption: 20mA
- DLM local network connection: 2 RJ45 ports
- Removable terminal block for connections to isolated relay output and third party inputs
- Isolated relay ratings:
  - 24VDC/VAC, 1A, SPDT
  - Normally open (N/O), normally closed (N/C) and common outputs
  - Duplicates the functionality of the LMRL-100
- Input ratings:
  - Input max. sink/source current: 1- 5 mA
  - Logic input signal voltage High: >18 VDC
  - Logic input signal voltage Low: < 2 VDC
- Operating conditions; for indoor use only; 32-131°F (0-55°C)
- Fits inside 4" x 4" j-box, 1 gang back box or 3" octagonal box; optional DIN rail mounting
- UL and cUL listed
- Five year warranty

CONNECTION AND MOUNTING

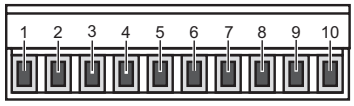
Connection to DLM Network



Dimensions



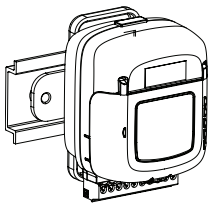
Wiring to 10-Position Terminal Block



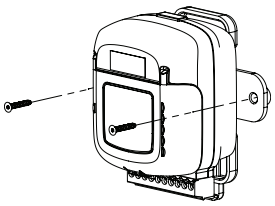
The isolated relay output is on terminals 1, 2 and 3. The relay responds to a signal from any DLM sensor.

Position (L – R)	Default Setting
1	Relay Normally Open (N/O)
2	Relay Common
3	Relay Normally Closed (N/C)
4	COMMON
5	+24 VDC
6	Input 1A
7	Input 1B
8	Input 2A
9	Input 2B
10	Pilot Light

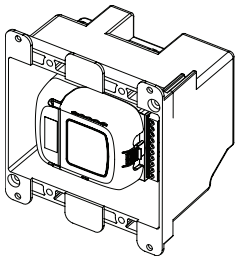
Mounting Options



Mount on DIN Rail

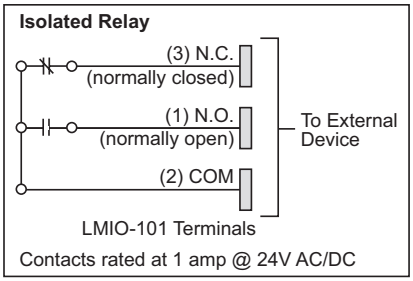


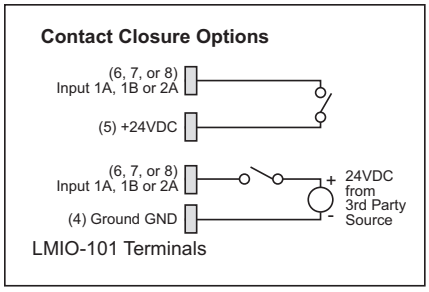
Mount to Wall

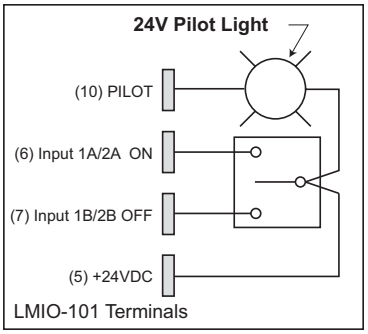


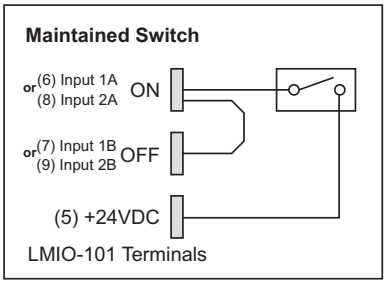
Inside a 2-gang J-box

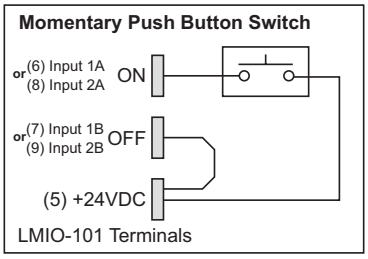
WIRING APPLICATIONS

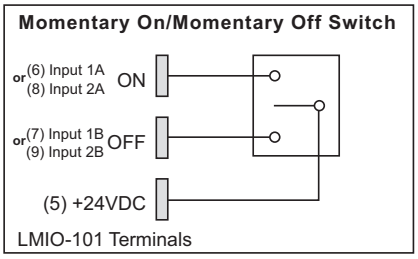




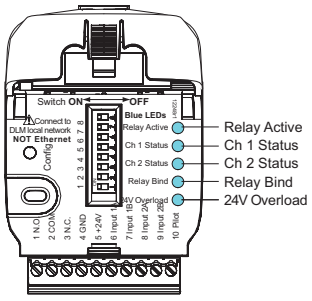








LED INDICATORS



Relay Active: Isolated relay activation.

Ch 1 and Ch 2 Status:

Associated with Input 1 and Input 2 in contact closure mode. LEDs track load status. They also show bindings in PnL.

Ch 1 Status will be lit when either 1A or 1B is activated.

Ch 2 Status will be lit when either 2A or 2B is activated.

Relay Bind: Binding status for sensor to LMIO-101 isolated relay.

24V Overload: Indicates 24VDC current overload.

ORDERING INFORMATION

Catalog #		Description
☐	LMIO-101	Input/Output Interface
☐	LMIO-101-U	Input/Output Interface, BAA/TAA compliant*

*Product is compliant with Buy American Act and Trade Agreement Act

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