LMRL-100

Digital Lighting Management

Isolated Relay Interface

2.5"
(63mm)

1.6"
(40mm)

2.0"
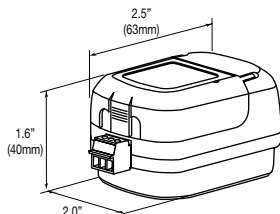
SPECIFICATIONS

Voltage 24VDC

Current Consumption. 7mA

Power Supply. Watt Stopper Room Controllers

Connection to DLM Local Network. . . . . 2 RJ-45 ports

Isolated relay ratings . . . . 1A 24VDC/VAC, SPDT
   normally open (N/O), normally closed (N/C) and common outputs

Environment . . . . For Indoor Use Only

   Operating Temperature . . . . 32° to 104°F (0° to 40°C)

   Storage Temperature . . . . 23° to 176°F (-5° to 80°C)

   Relative Humidity . . . . 5 to 95% (non condensing)

Other:

   RoHS compliant

   UL2043 Plenum rated

   5-year warranty

Watt Stopper ®

Patents Pending

UNIT DESCRIPTION

The LMRL-100 Isolated Relay Interface is an optional module for the Watt Stopper Digital Lighting Management system (DLM) that allows integration of third-party devices. The LMRL-100 connects to the DLM local network and activates its isolated relay upon any occpancy signal. Connecting a third-party's device to the LMRL-100 relay output allows the third-party device to observe when occupancy is detected.

MOUNTING AND WIRING

Installation shall be in accordance with all applicable regulations, wiring practices, and codes.
To be connected to a Class 2 power source only. • Class 2 Device Wiring Only – Do Not Reclassify and Install as Class 1, 3 or Power and Lighting Wiring. • Wire connections shall be rated suitable for the wire size (lead and building wiring) employed.
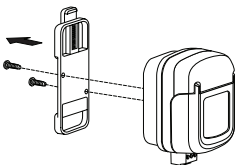
The LMRL-100 is UL2043 Plenum rated.

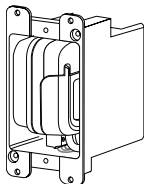All connections to the LMRL-100 are Class 2 low voltage.

If code requires that the LMRL-100 be mounted in an enclosure, it can be mounted inside a 4" x 4" junction box, inside a $2\frac{1}{8}$" deep (or deeper) 1-gang wall box, in a 3" or 4" octagonal box, or on a din rail inside a building automation panel.
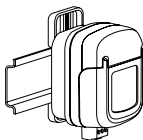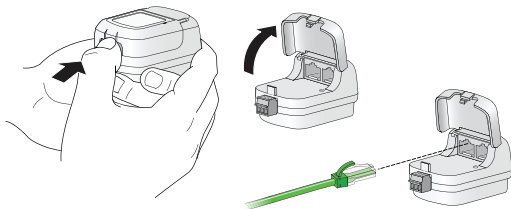

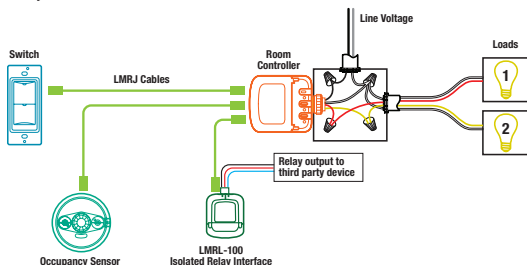**Din rail clip attached**

Removing din rail clip

Inside a $2\frac{1}{8}$" deep single gang wall box

Attach the LMRJ Cable

The DLM local network uses free topology low voltage wiring. The LMRL-100 can connect anywhere on the DLM local network.
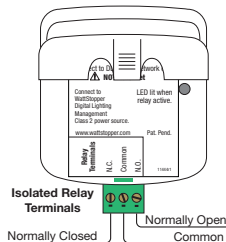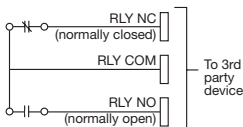

WARNING: to connect a computer to the DLM local network use the LMCI-100. **Never connect the DLM local network to an ethernet port –** it may damage computers and other connected equipment.

Terminal Connections

Isolated Relay Terminals

Contacts rated at
1 amp @ 24V AC/DC

RLY NC
(normally closed)

RLY COM

RLY NO
(normally open)

To 3rd party device

Isolated Relay Terminals

Normally Closed
Normally Open
Common

OPERATION

The LMRL-100 connects to the DLM local network. When occupancy is detected by any sensor on the DLM local network the LMRL-100 automatically closes its relay. The output from the LMRL-100 terminal can signal a third party device that there is occupancy.

Power up functionality

Upon initial power up the LMRL-100 automatically "listens" for an occupancy message from any occupancy sensor on the local network. No setup is needed.

LED indicator

The LMRL-100 contains one blue LED that illuminates when the isolated relay closes.

TROUBLESHOOTING

Relay does not close when the room is occupied:

1. Check that the circuit breaker has been turned back on.
2. Make sure that there is an occupancy sensor detecting occupancy.
3. Check all sensor and room controller wiring connections.
4. Check for 24VDC input to the LMRL-100: Plug in a different DLM device at the LMRL-100 location. If the device does not power up, 24VDC is not present.
   - Check the high voltage connections to the room controller.
   - If high voltage connections are good, recheck local network connections between the LMRL-100 and the room controller.

ORDERING INFORMATION

Catalog #	Description
LMRL-100	DLM Isolated Relay Interface

WARRANTY INFORMATION

WattStopper®

Please
Recycle