LMIO-301 Digital Photocell Input Module and Analog Photocells

Module and selected photocell read light levels for exterior or interior applications

Works with LMSM segment manager

Connects to segment network via DLM local network connection Compatible with LILM panels and LMRC room controllers

DIN rail clamp allows mounting in LILM Series panel

Choice of photocells for exterior and skylight locations

PROJECT

LOCATION/TYPE

Product Description Overview The LMI0-301

The LMIO-301 photocell input module is an accessory for a networked Digital Lighting Management (DLM) installation that allows an LMSM segment manager to read ambient light levels for use in controlling exterior lighting or interior lighting installed in brightly daylit spaces such as atriums. The LMIO-301 works in conjunction with either the LMPO-200 exterior or LMPS-6000 skylight low voltage photocell heads.

Operation

The LMI0-301 operates on Class 2 power supplied to a DLM local network by one or more room controllers. It transmits light levels over the segment network as read from one of the optional remote analog LMPO or LMPS photocell sensors. The LMI0-301 converts the 0-10 VDC signal from the photocell sensor to a digital signal that is shared across the network. The segment manager is configured to control the lighting based on userdefined setpoints and time delay settings.

Features

- Available accessory photocell heads for exterior and skylight/atrium applications
- Available range from 1 to 6000 footcandles

• Requires LMSM segment manager

• Ambient light levels are available to connected building automation system

Network Communication

The LMIO-301 can be installed on any DLM local network. The actual ambient light level as reported by the connected LMPO or LMPS photocell is communicated to the segment network via an LMBC-300 network bridge, and made available for use by an LMSM segment manager or BAS system.

Applications

The LMIO-301 photocell input module is an ideal solution for any application where exterior lighting needs to be controlled based on actual ambient exterior light levels such as parking, site and landscape lighting. Applications with large expanses of skylight, clearstory or atrium glazing can also benefit from controlling lighting based on ambient light entering the building through the glazing. When controlling outdoor lighting, the photocell head is mounted on the roof of the building facing north. The LMPO-200 photocell head is waterproof and has a built in hood to shield the lens from direct sunlight. The LMPS-6000 photocell head is designed for direct exposure to extremely high light levels as would be present adjacent to the glass in an atrium, skylight or clearstory.

- Two RJ45 ports with hinged dust cover
- UL 2043 plenum rated
- Supplied with DIN rail adaptor for Class 2 installation
- RoHS compliant

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Specifications

LMI0-301:

- Operating voltage: 24VDC from DLM local network
- Maximum current consumption: 17mA
- Maximum output power: 5mA •
- Class 2 connection terminals: 24VDC photocell supply, common, 0-5VDC input, 0-10VDC input
- DLM local network connection: 2 RJ45 ports
- Adjustable sample rate: 1-60 seconds, 1 second resolution, 30 second default setting
- Percentage delta for sample: 1-100%, 1% resolution, 1% default setting
- Operating conditions: for indoor use only; 32-104°F (0-40°C)
- Fits inside 4" x 4" j-box, 1-gang back box or 3" octagonal box; optional DIN rail mounting

- UL and cUL listing pending
- FCC part 15 compliant • Five year warranty
- Analog Photocells:
- Input voltage: 24 VDC, from LMI0-301
- Light level resolution:
 - LMPO-200: 0-200fc (0-2153 lux), 1fc/step - LMPS-6000: 0-6000fc (0-64583 lux), 24fc/step
- Mounting, 1/2" NPT x .69" threaded stem
- Housing, UV stabilized plastic
- Slew rate, one minute full scale response time
- Operating temperature: -40-140°F (-40-60°C)

2.5"

(63.5mm)

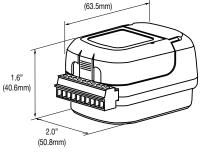
- UL and cUL listed
- Five year warranty

2.5'

(63 5mm)

Photocell Dimensions





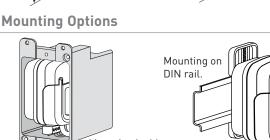
2.5"

Wiring & LMI0-301 Low Voltage Terminals

Placement

Position (L - R)	Description
4	+24 VDC
5	COMMON
9	0-5 V input
10	0-10 V input (standard)



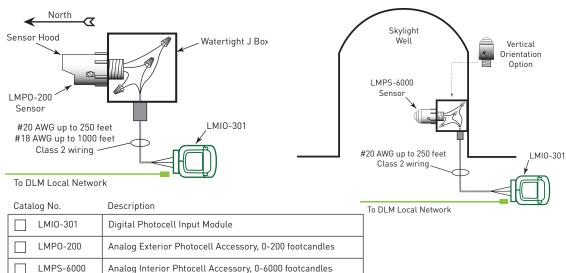


1.28

(32 5mm

Mounting inside single-gang wall box.

LMPS-6000 Skylight Application



1.28"

(32 5m)

Ordering

Information