

netDimmer – MicroWave Motion Sensor Controller



Key Feature and Benefits

- Up to 30 Amp Switching control @ 480VAC
- Wireless Mesh Network control
- External 10GHz Microwave Motion Sensor
- Compatible with 0-10VDC dimmer drivers
- Optional Cloud-base control
 - Time Schedule
 - Astronomical Clock (Sunrise/Sunset)
 - Daylight Harvesting
 - Partial Off states
 - Occupancy mode
 - Energy reporting/Metering
 - Light Fault detection and messaging
- Autonomous operation via photocell
- Input for external sensors (Motion/current)
- Wireless parameter configuration (via USB)
- Industry standard NEMA7 enclosure

netDimmer – MWMS module provides motion sense control of dimmable LED lights via a wireless mesh network and 10 GHZ microwave module. Integrate enterprise management of building, parking lot, and pathway lighting using local or Cloud base control. Provides a complete browser platform for control, monitoring, and reporting.

Each module can switch lights On/OFF via an integrated high current relay, dim lights using 0-10V dimming drivers, detect light levels for daylight harvesting, and external current sensor or occupancy sensor inputs.

Mesh network allows up to 16 individual controllers to communicate with central cloud gateway spanning very large distances. Each module creates a luminary zone with multiple slave lights to increase coverage.

Multi-stage dimming profiles can be actively down-loaded from cloud service and then run autonomously based on internal light and motion sensors.

Internal microcontroller and built-in photocell also allows for stand-alone operation with programmable dimming profiles downloaded via wireless connection. User defined motion thresholds and on-delay timer are set via mesh network gateway interface. Master modules can wireless autonomously control sub zone modules.

Optional Cloud base service provides Motion Detection Alerts to send out emails and SMS messages based on programmed set points such as time of day or zone security. Complete data logging and reporting is available using the cloud service.

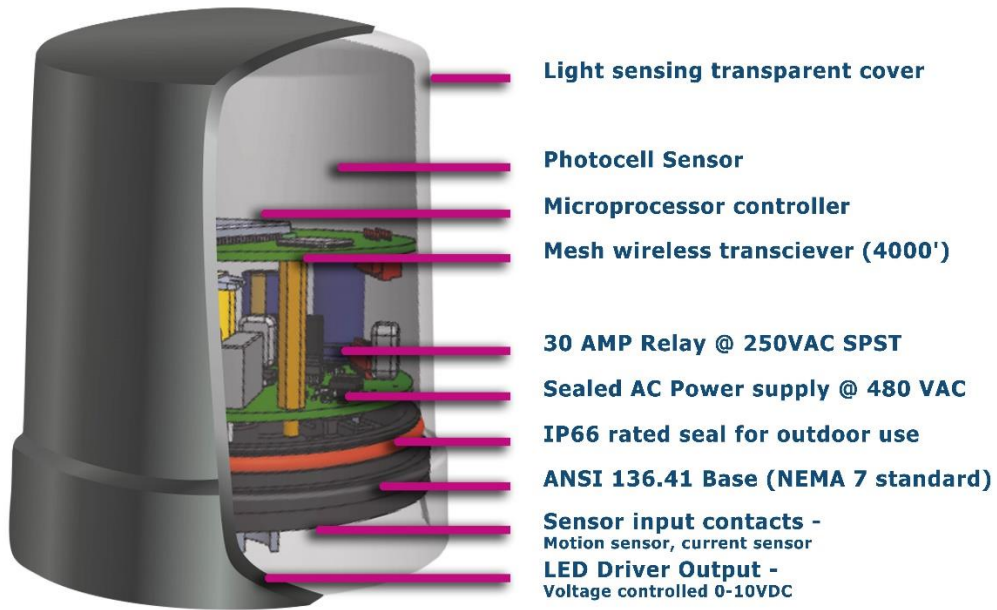
The rugged water-resist design features NEMA7/IP66 7-pin enclosure. Optional pole mount brackets are also available.

Specifications

- Input Voltage: 120/480VAC; 50/60Hz
- Load Ratings: 250VAC/30A - 480VAC/5A
- Relay Life Rating: 75,000 cycles (250VAC) - 10,000 (480 VAC)
- Dimmer Driver Control: 0.5VDC to 10VDC @ 60 mA (up to 10 LED Drivers)
- Motion Detection Range: 10-30 feet (3-10 meters)
- Motion Detection type: Doppler Microwave @10GHZ
- Mesh wireless range: 4000 feet (1200 meters) outdoors
- Mesh frequency band: IEEE 802.15.4 2.4GHZ
- Motion Cutoff delay: 1-600 Min (30 min default)
- False trigger timeout: 1-60 sec (2 sec default)
- Fade down mode: 0-60 sec (none default)
- Motion sensitivity range: 10-30 feet (30 feet default)
- Photocell interrupt: on/off/disabled (set point adjustable) – cloud controlled sunrise/sunset option
- Programming port: Wireless Mesh Network USB dongle (optional) or direct USB port
- Operating Temperature: -40 to 167F (-40 to 75C)
- Power Consumption: 0.5 amps
- Enclosure Environmental rating: IP66 ANSI C136.41 compliant 7-pin twist-lock connector.



netDimmer - NEMA 7 dimming control module



netDimmer NEMA7 Dimmer Module

