Liteno[™] Low Voltage Wireless Relay

Intelligent distributed control & monitoring system
Voltage range: 12 to 24 Vac

Ideal for solar (photovoltaic) and battery powered devices. A complete control relay easily networkable in a Master-Companion configuration for flexible control patterns with groups & zoning.

- Supply voltage monitoring for battery powered system
- Solid state output up to 1 Amp with short circuit protection and open load detection
- Long range wireless RF mesh communication
- Convenient size for installation inside your products
- Enables RS232 communication to display / text banners
- Compatible with all other DimOnOff products

MARKETS

Solar and battery-powered low voltage applications such as motion sensors, digital panels, light controls, and many more IoT devices for different sectors — Agriculture, Energy, Safety, etc.

DESCRIPTION

Compact addressable module that offers wireless control & monitoring, plus digital and analog inputs and output to simply & easily create intelligent distributed systems.

No wires to run. Drastically simplifies control & automation projects, especially in outdoors and retrofit environments.

Perfectly adapts to complex automation situations for quick, simple and economical commissioning.

APPLICATIONS

- Designed to create flexible, smart automation systems for institutional, commercial, municipal and industrial environments.
- Adds intelligent functions and networkability to any low-voltage motion, display/text panels & other types of sensors.
- Suited for both indoor and outdoor installations.
- Scalable from single device to city wide network.
- Perfect for retrofit and new construction. No central panel or communication wiring required: Works both as an autonomous system, or managed from a central system.
- Enables energy conservation by automating daylight & motion sensing with occupied and unoccupied levels including lamps saver function. A single set of sensors will control several hundreds relays to create zoning patterns (complies with N.Y. LL48 and many other energy requirements and incentives).

FEATURES

- Inputs for low-voltage switch, motion and lux sensor
- Compatible with any low-voltage occupancy & lux sensors (daylight harvesting) and switches.
- Each and every module can be set as a master, and control numerous other companion modules.
- Open-collector outputs for driving external loads.
- Bidirectional long range wireless RF mesh network.
- Individual addresses: up to 2 billion unique serial numbers.
- Military grade 128bits AES communication encryption.
- Multi-level grouping and multiples scenarios.
- Programmable state after blackout, with peak shaving options.
- Flick warning and override before scheduled lights off.
- Both locally and remotely controllable with status & metering reporting.
- Manual ON/Auto-Off, Auto-ON/Auto-Off and grace period compliant.
- Serial communications via a bidirectional RS232 serial port passthrough.
**SPECIFICATIONS**

**Electrical**
- **Voltage:** 12 Vdc to 24 Vdc
- **Consumption:** 0.06mA @12V and 0.04mA @24V
- **Maximum load:** 1 Amp
- **Output Status Monitoring:** Standard feature
- **Power monitoring:** Voltage - Burn-time counters

**Electronic**
- **Standard Inputs:** 3 Digital (0-30V): ex: Motion sensor and switch top/bottom buttons + 1 Analog (0-30V)
- **Secondary Output:** 1 Digital (supply voltage (12-24V) - max: 20 mA) or sink to ground (0V).
- **RS-232 serial interface**

**Radio**
- **MGM12P Multi-protocol wireless mesh module** (see manufacturer for details)

**Environmental**
- **Ambient temperature range:** -40°C to +85°C
- **Relative Humidity:** up to 99% non-condensing
  *fully waterproof packaging option available*

**Listings**
- **U.S. FCC:** QOQMGM12P3
- **UL94V-0 Flame retardant ABS or Epoxy molding**

**Warranty**
- Limited 5-year warranty

**DIMENSIONS**
(L x W x H) (in/mm)
2.25 x 2 x 1.25 in / 57.15 x 50.8 x 31.75 mm

**ORDERING INFORMATION**

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<thead>
<tr>
<th>Model</th>
<th>Output</th>
<th>Status Monitoring</th>
<th>Metering</th>
<th>Inputs outputs</th>
<th>Voltage</th>
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<tr>
<td>LNLV-WP</td>
<td>1 x 1A</td>
<td>Yes</td>
<td>Voltage and time</td>
<td>3DI, 1AI, 1DO, RS-232</td>
<td>12 and 24 VDC</td>
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**DimOnOff Specification submittal**

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<th>CATALOG NUMBERS:</th>
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