Maestro® 0–10 V Dimmer Sensor
Setting the new standard for 0–10 V control

*Simple and cost-effective means more jobs*
- Fewer parts than a typical dimming and sensing solution
- Less time spent on installation

*Easy*
- Quick installation
- Works right out of the box—no programming required

*Reliable*
- No false-ons or false-offs
Simple and cost-effective

Three-in-one

- One product—not three—for code compliant design
- Saves on product cost
- Saves on installation time—so you’re in and out of a job fast

Lutron 0–10 V Dimming & Sensing

Typical 0–10 V Dimming & Sensing

Components

<table>
<thead>
<tr>
<th>Lutron 0–10 V Dimming &amp; Sensing</th>
<th>Typical 0–10 V Dimming &amp; Sensing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line-voltage wiring</td>
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</tr>
<tr>
<td>Low-voltage wiring</td>
<td>Low-voltage wiring</td>
</tr>
</tbody>
</table>

| 1 component | 3 components |

Cost

| budget friendly | costly |

Installation Time*

| 20 minutes | 50 minutes |

* Installation estimations provided by two certified electrical contractors in distinct U.S. markets
Adjustable sensor settings

- **Timeout**: Adjust from 1, 5, 15*, and 30 minutes
- **Mode** (sensor modes): Lights automatically turn off in all sensor modes
  - Occ - Occupancy mode*
  - Lrn - Occupancy with learning ALD mode
  - Fixd - Occupancy with fixed ALD mode
  - Vac - Vacancy mode (no ALD)
- **Sensitivity**: High, medium, low, minimum

*Default settings designed for most common applications

Adjustable dimmer settings

- **High and low-end trim**: The user has the option to set high-end and low-end light level
- **Adjustable fade time**
  - fade-to-on: .75 - 15 seconds
  - fade-to-off: .75 - 15 seconds
- **Selectable dimming curve**: Optimizes driver performance

Know the facts

- **0-10 V** is the most widely available dimming technology for commercial spaces
- ASHRAE 90.1.2010 and Title 24, the leading energy efficiency standards, require **occupancy sensing and multi-level lighting control** in small spaces.
- Most manufacturers require **three components** in order to deliver occupancy sensing combined with 0-10V control

Works right out of the box

- No programming required
- Optimized for ideal sensitivity
- Settings are simple to adjust—no dip switches or dials
- Neutral optional—one model has you covered with the option to connect the neutral
- 3-way—works with a Maestro® accessory switch or mechanical switch

Quick installation

Easy-to-see LEDs and a settings button

Sensor mode settings
Superior sensing technologies

**XCT™ technology with cross-correlation—won’t leave you in the dark**

**Lutron sensors detect fine motion better than other PIR sensors**
- Provides exceptional prevention of false-ons and false-offs
- Superior sensitivity—recognizes the difference between fine human motion and background noise

<table>
<thead>
<tr>
<th>☑ Major Motion</th>
<th>☑ Minor Motion</th>
<th>☑ Fine Motion</th>
<th>☑ No False-on</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person walking 3 feet</td>
<td>Movements like extending your arms</td>
<td>Small movements like flipping pages of a book</td>
<td>Lights stay off when room is unoccupied</td>
</tr>
</tbody>
</table>

**Smart Ambient Light Detection (ALD) mode**

**Smart** ALD learns your light level preference over time and adapts accordingly.
- If you want more light in the room, you can manually turn the lights on
- If you think there’s too much light in the room, you can manually turn the lights off

ALD keeps lights off when there’s ample daylight in the space. Lights turn on only when natural light in the room is below the set threshold.
Superior dimming technologies

Miswire and load incompatibility alert

The sensor lens will flash if there is a miswire, or if you’re using the wrong type of driver or ballast. In this case, the sensor acts as a switch until wired for dimming.

Did you know...

There are two different types of 0-10 V ballasts/drivers: sinking and sourcing. In order to control these fixtures you must have a compatible dimmer sensor. Lutron’s sinking dimmer sensor will work with sourcing drivers and ballasts.

Optimized dimming performance

- **Selectable dimming curve ensures optimal performance**
  - Linear
  - Logarithmic
- **Smooth fade-to-on and fade-to-off**

Did you know...

There are two types of dimming, linear and logarithmic. You may not know which type of dimming your driver uses. Lutron’s dimmer sensor allows you to select the appropriate type of dimming for optimized performance.
Lutron sensors are engineered with robust components and combined with award-winning aesthetics.

- Extended relay lifetime by using Lutron’s patented Adaptive zero-cross switching
- Tamper-resistant lens
- Available in 27 colors

Largest line of colors available

Sensors are available in 27 colors; 7 gloss and 20 Satin Colors®.
- Gloss colors ship in 2 days
- Satin colors ship in 2-10 days

Limestone  Palladium  Stone
### Maestro® 0–10 V Dimmer Occupancy Sensor

<table>
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<tr>
<th>Model number</th>
<th>Description</th>
<th>Voltage</th>
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<tbody>
<tr>
<td>MS-Z101-XX*</td>
<td>Occupancy/vacancy single-pole/multi-location 8A Auto-on/auto-off or manual-on/auto-off</td>
<td>120-277 V~</td>
</tr>
<tr>
<td>MS-Z101-V-XX*</td>
<td>Vacancy single-pole/multi-location 8A Manual-on/auto-off only</td>
<td>120-277 V~</td>
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</table>

* XX denotes color suffix

### 0–10 V dimmers

- Nova T®
- Diva®

### In-wall Maestro® sensor switches and dimmers for additional applications

- PIR sensor switch
- PIR dual-circuit sensor switch
- PIR sensor C-L® dimmer
- Dual-tech sensor switch
- Dual-tech, dual-circuit sensor switch

### Flexible wireless energy-saving solutions for occupancy and daylight sensing

- Radio Powr Savr® ceiling sensor
- Wall, corner, hall sensor
- Daylight sensor
- 0–10 V PowPak®
- Pico® wireless remote
Coverage patterns

Horizontal Beam Diagram

Vertical Beam Diagram

Major motion coverage (900 ft²)
Minor motion coverage (400 ft²)