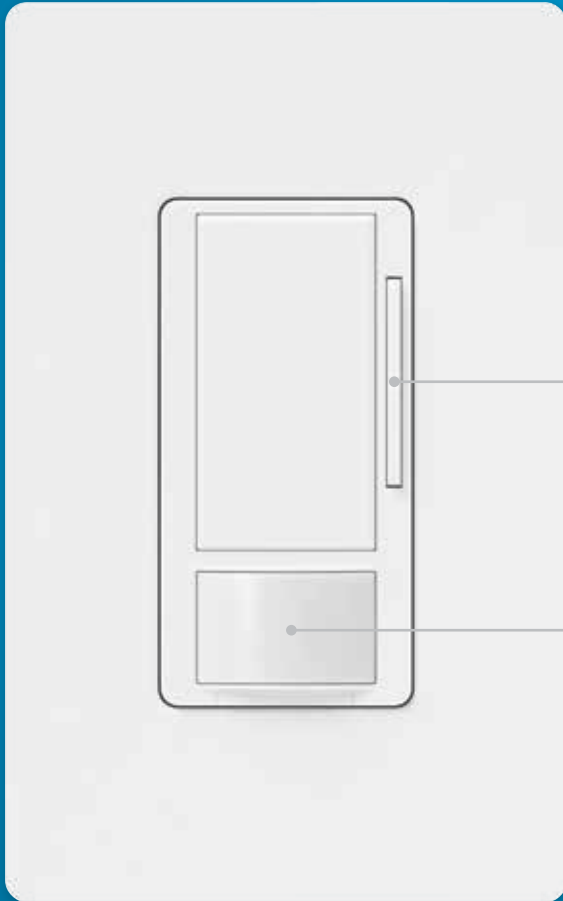


NEW

Maestro® 0–10V Dimmer Sensor

Setting the new standard for 0–10V control



0–10V Dimmer

Sinking control for 0–10V fluorescent and LED fixtures

Passive Infrared (PIR) Sensor

Fine motion detection with exclusive Lutron XCT™ technology

Maestro 0–10V Dimmer Sensor

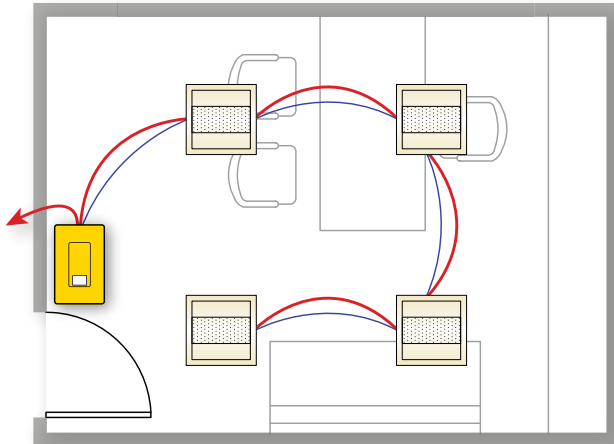
- **Simple and cost-effective means more jobs**
 - Fewer parts than a typical dimming and sensing solution
 - Less time spent on installation
- **Easy**
 - Quick installation
 - Works right out of the box—no programming required
- **Reliable**
 - No false-ons or false-offs

Simple and cost-effective

Three-in-one

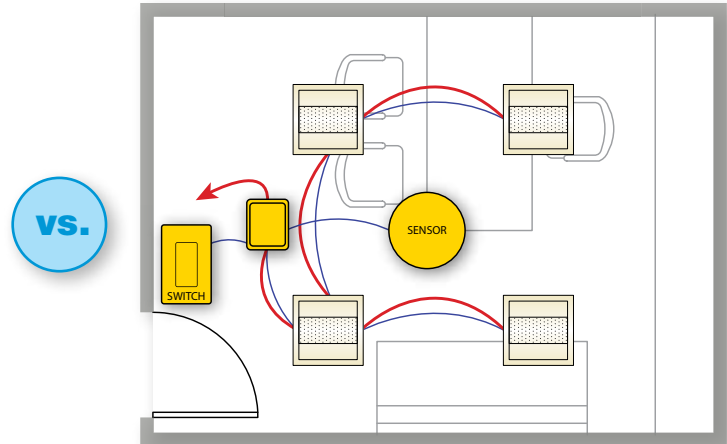
- One product—not three—for code compliant design
- Saves on product cost
- Saves on installation time—so you're in and out of a job fast

Lutron 0–10V Dimming & Sensing



— Line-voltage wiring — Low-voltage wiring

Typical 0–10V Dimming & Sensing



— Line-voltage wiring — Low-voltage wiring

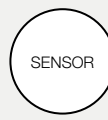
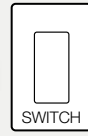
vs.

Components



1 component

vs.



3 components

Cost



budget friendly

vs.



costly

Installation Time*



20 minutes

vs.



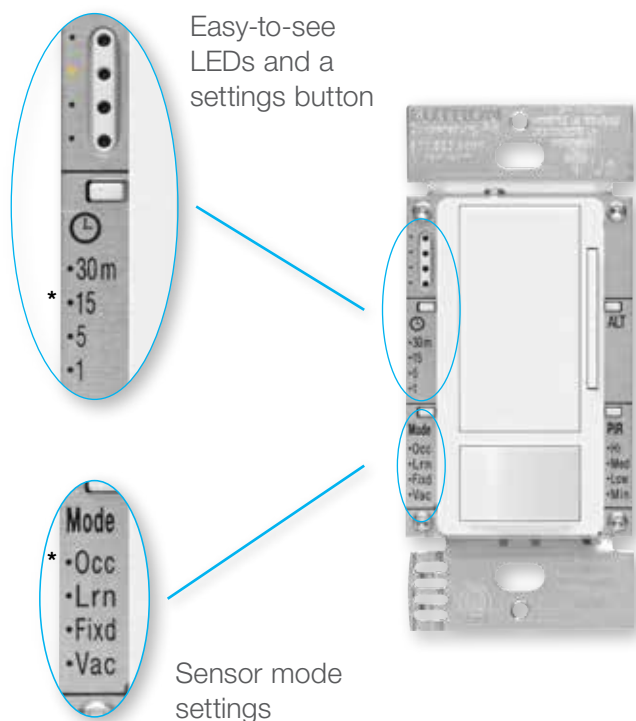
50 minutes

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

Quick installation

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



Know the facts

- **0–10V** 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

Adjustable sensor settings

- **Timeout:** Adjust to 1, 5, 15*, or 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
 - Linear*
 - Square Law (logarithmic)

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

✓ Major Motion



Person walking 3 feet

✓ Minor Motion



Movements like
extending your arms

✓ Fine Motion



Small movements like
flipping pages of a book

✓ No False-on



Lights stay off when
room is unoccupied

Smart Ambient Light Detection (ALD) mode



Smart ALD learns your light level preference over time and adapts accordingly.

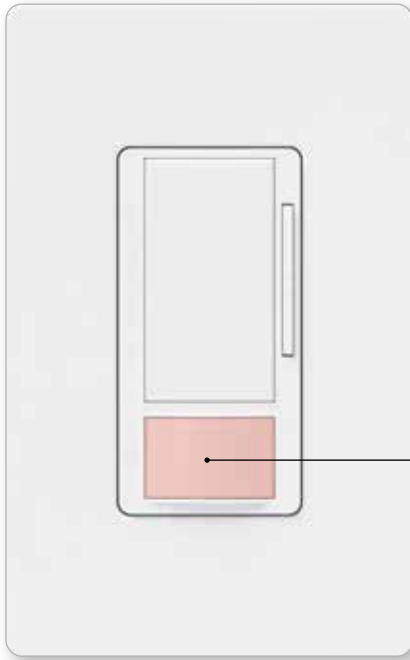
- If you want more light in the room, you can manually turn the lights on
- If you think there is too much light in the room, you can manually turn the lights off



ALD keeps lights off when there is 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



Maestro 0–10V dimmer sensor is a sinking control.

- Most fixtures are sourcing and require a sinking control, per standards as specified by IEC 60629.

Lens will flash if

- 0–10V control wire polarity is reversed
- Wired to sinking fixture

In either case, the sensor acts as a switch until wired correctly.

Optimized dimming performance

- **Selectable dimming curve ensures optimal performance**
 - Linear*
 - Square Law (logarithmic)
- **Smooth fade-to-on and fade-to-off**

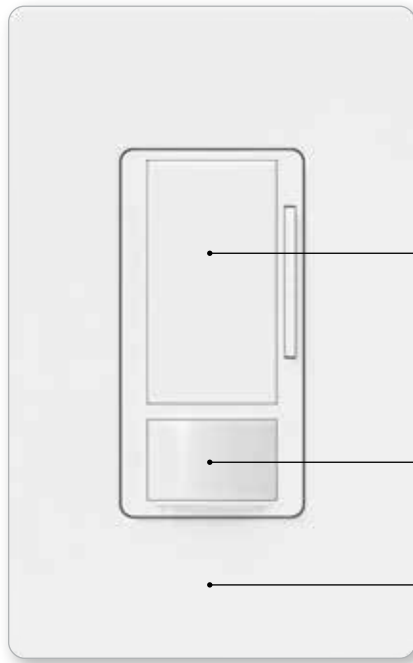
*Default settings designed for most common applications

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.

Durable design

Lutron sensors are engineered with robust components and combined with award-winning aesthetics



Extended relay lifetime

uses Lutron's patent-pending 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

Ordering Information

Maestro® 0–10V Dimmer Occupancy Sensor

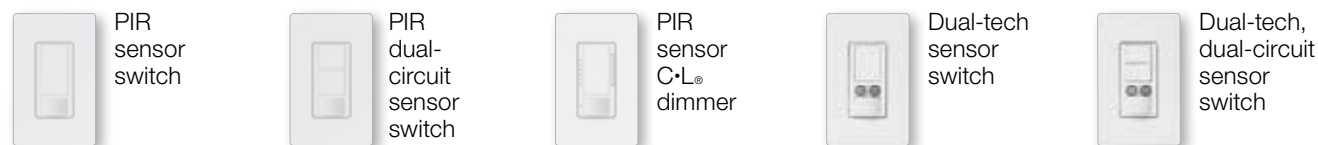
Model	Model number	Description	Voltage
	MS-Z101-XX*	Occupancy/vacancy single-pole/ multi-location 8 A Auto-on/auto-off or manual-on/auto-off	120-277V~
	MS-Z101-V-XX*	Vacancy single-pole/multi-location 8 A Manual-on/auto-off only	120-277V~

* XX denotes color suffix

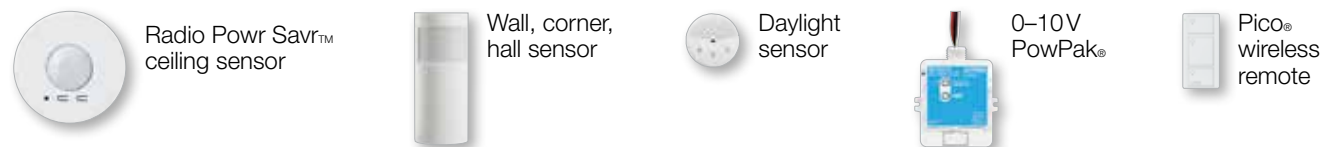
0–10V dimmers



In-wall Maestro sensor switches and dimmers for additional applications



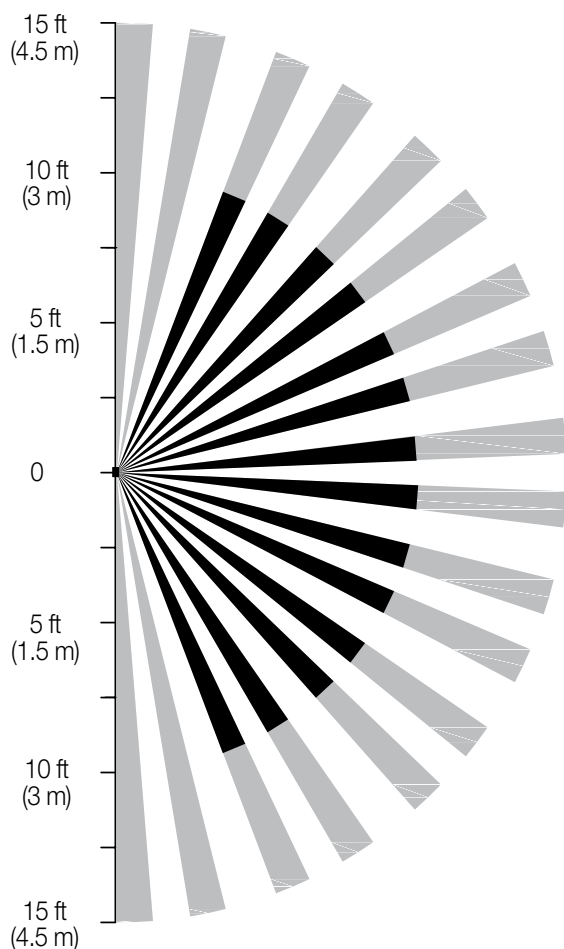
Flexible, wireless energy-saving solutions for occupancy and daylight sensing



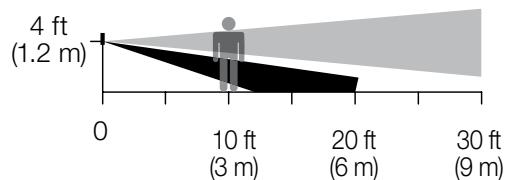
Additional product information

Coverage patterns

Horizontal Beam Diagram



Vertical Beam Diagram



- Major motion coverage 900 ft² (83 m²)
- Minor motion coverage 400 ft² (37 m²)

www.lutron.com



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