

NEW  
0-10V  
Dimmer Sensor

# Maestro® Sensors

Lutron quality and performance, now in a sensor.



PIR Sensor switch



PIR Dual-circuit sensor switch



C•L® dimmer sensor



0-10V dimmer sensor



Dual-technology sensor switch



Dual-technology, dual-circuit sensor switch

- **XCT™ technology with cross-correlation – no callbacks**

- Lutron sensors won't leave you in the dark
- Superior sensitivity recognizes the difference between fine human motion and background noise
- Provides superior prevention of false-ons and false-offs

- **Durable design with clean aesthetic**

- Tamper-resistant lens
- Extended relay lifetime

- **Models for any application and all lighting loads**

- Single- and dual-circuit switches; neutral & no neutral required
- Passive infrared (PIR) and dual-technology sensing
- 0-10V dimmer for 0-10V fluorescent and LED fixtures
- C•L dimmer for dimmable LEDs and CFLs

**For more information:**

[www.lutron.com/OccVacSensors](http://www.lutron.com/OccVacSensors)

**Order now:**

Contact your local electrical distributor



# Lutron sensors minimize callbacks

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

**Lutron sensors detect fine motion, like reading a book, better than other PIR sensors.**

Breakthrough sensing technology ensures lights stay on when a room is occupied and off when it's not.

✓ **Major Motion**



Person walking 3 feet

✓ **Minor Motion**



Movements like extending your arm

✓ **Fine Motion**

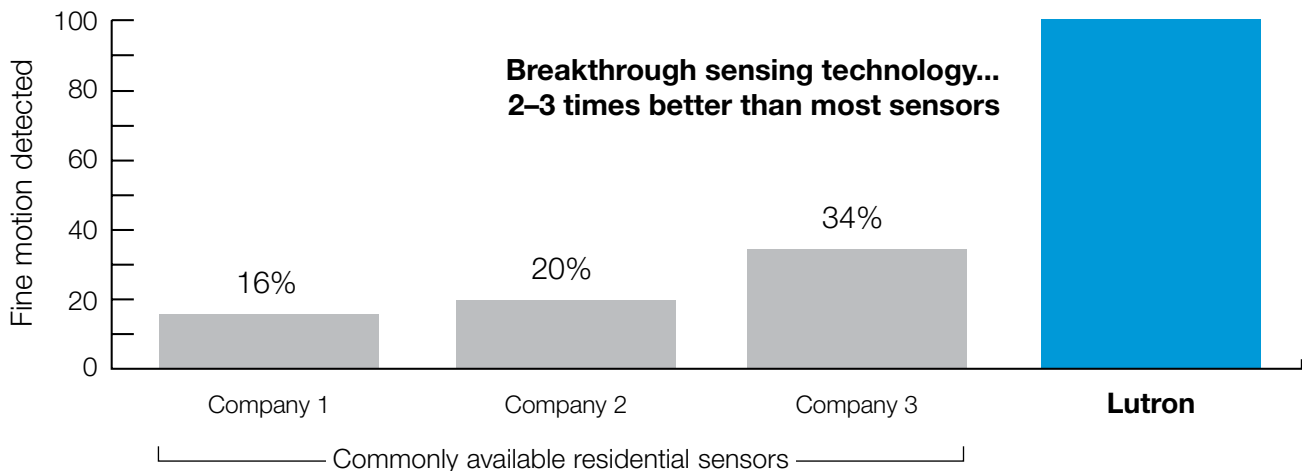


Small movements like flipping pages of a book

✓ **No False-On**



Lights stay off when room is unoccupied



For testing methods see [www.lutron.com/sensortest638](http://www.lutron.com/sensortest638)

✓ **Very fine motion**



Minimal movements like typing on a keyboard

**NEW!**

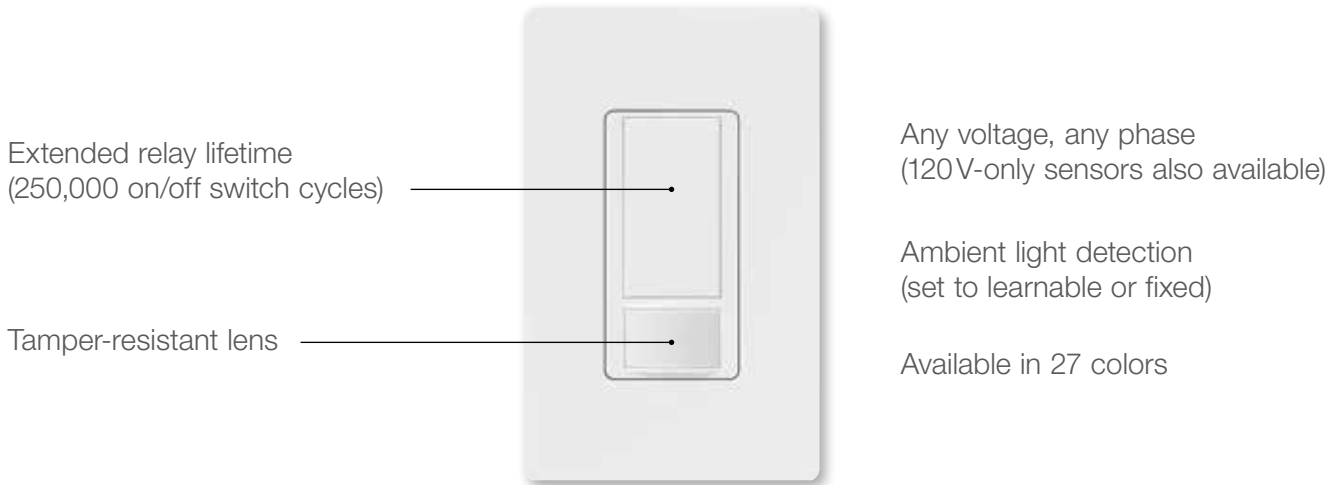
**XCT technology now available for dual-technology sensors.**

Dual-technology sensors use PIR and ultrasonic technologies together for maximum sensitivity.

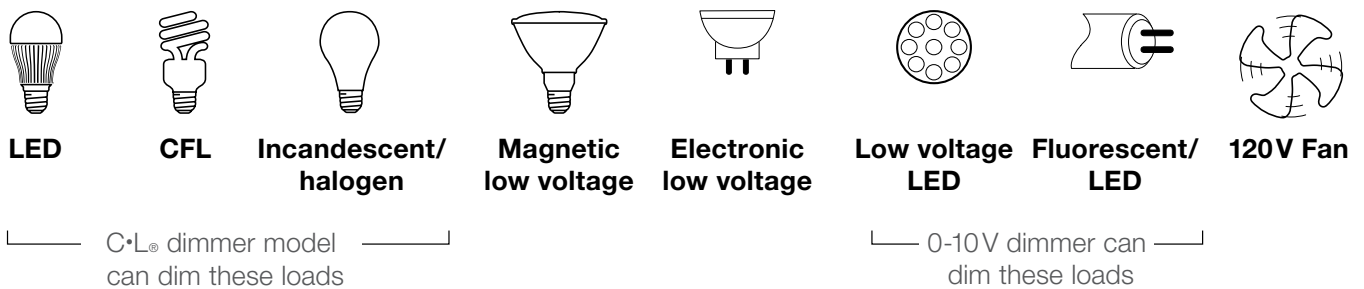
# Product information

Durable design with modern, clean aesthetic

**Lutron sensors are engineered with robust components, combined with award-winning design.**



Controls all lighting and fan loads



All Lutron products backed by world-class support

- 24/7 live technical support: 1.800.523.9466
- Customer service/quotes: 1.888.588.7661

**Occupancy sensors can save 20-60% lighting energy\***

\* Source: VonNieda B, Maniccia D, & Tweed A. 2000. An analysis of the energy and cost savings potential of occupancy sensors for commercial lighting systems. Proceedings of the Illuminating Engineering Society. Paper #43.

# Easy installation

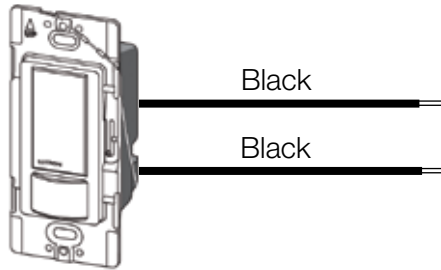
## Simplified Wiring

**Mistake-proof wiring—no polarity for line- or load-side wiring**



No neutral required models for dual-technology sensors\*

### Single-circuit (including dimming)



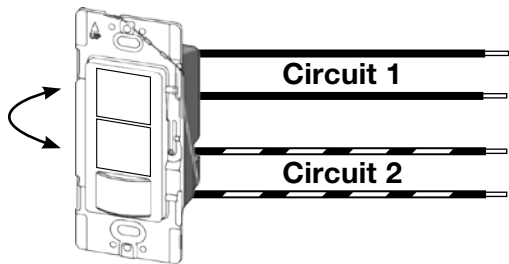
#### Any voltage

120V & 120V - 277V

#### Any phase

Phase A, B, or C

### Dual-circuit



#### Any voltage

120V - 277V

#### Any phase

Phase A, B, or C

120V - 277V

Phase A, B, or C

### Easily reassign

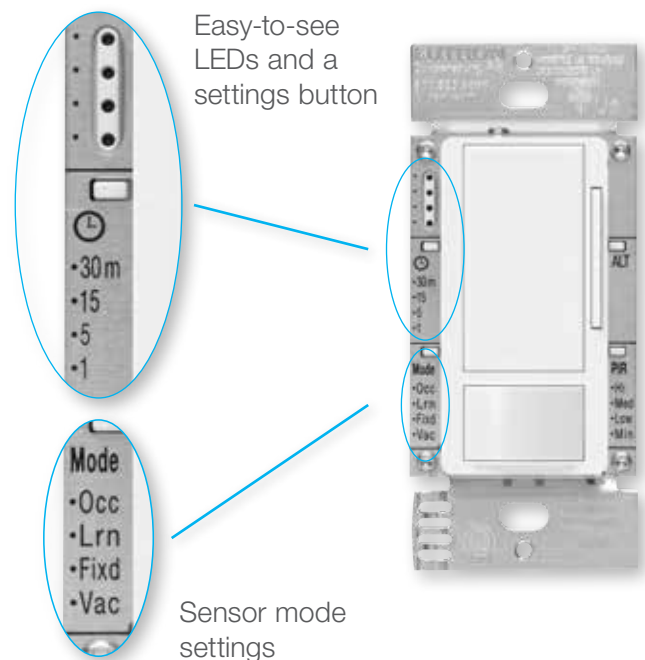
Change circuit with button press; no rewiring

\* Dual-tech no neutral models require line and load specific wiring

## Easy set up

### No dip switches or dials

- Simple button-press changes settings
  - Timeout
  - Sensitivity
  - Mode
    - Occupancy
    - Ambient light detection
    - Vacancy
- 0-10V dimmers and Dual-tech models feature easy-to-see LED to indicate settings
- Dual-Circuit models feature independent settings per circuit



# PIR Dimmer Sensors

## 0-10V dimmer sensor

Setting the new standard for 0–10V control



0-10V dimmer sensor

### 0-10V dimmer for fluorescent and LED fixtures

- 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
- The sensor lens will flash if there is a miswire, or if you're using the wrong type of fixture (requires sourcing fixture)

## C•L dimmer sensor for dimmable LEDs/CFLs

Combines a Maestro C•L dimmer with an occupancy or vacancy sensor



C•L dimmer sensor

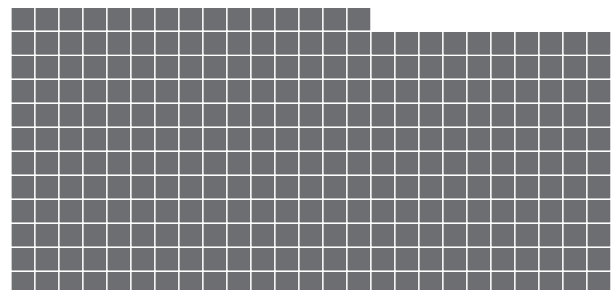
### C•L dimmer controls multiple light bulb types

- Dimmable LED
- Dimmable CFL
- Incandescent/halogen

### Sensor dimmer light bulb compatibility

■ = unique LED or CFL bulb model type









**Lutron**  
more than 290 bulbs



**Other company**  
61 bulbs











# Sensor model information and key applications

	 <b>2A PIR single-circuit</b>	 <b>5A PIR single-circuit</b>	 <b>6A PIR single-circuit</b>	 <b>PIR dual-circuit</b>
<b>Model number</b>	MS-OPS2-XX*	MS-OPS5M-XX*	MS-OPS6M2-DV-XX* MS-OPS6M2N-DV-XX* neutral model	MS-OPS6-DDV-XX*
<b>Key applications</b>	 Small space Kitchen	 Bathroom Private office	 Breakroom Office	 Training room Conference room
<b>Technology</b>	XCT™ PIR	XCT PIR	XCT PIR	XCT PIR
<b>Coverage (sq ft)</b>	900 (major) 400 (minor)	900 (major) 400 (minor)	900 (major) 400 (minor)	900 (major) 400 (minor)
<b>Timeout</b>	1, 5, 15, or 30 minutes	1, 5, 15, or 30 minutes	1, 5, 15, or 30 minutes	1, 5, 15, or 30 minutes per circuit
<b>Voltage</b>	120V	120V	120-277V	120-277V per circuit
<b>Amperage/wattage</b>	2A lighting	5A lighting 3A (120V) fan	6A lighting 3A (120V) fan	6A lighting 4.4A fan (120V) per circuit
<b>Single pole, 3-way, multi-location</b>	Single pole	3-way/multi-location	3-way/multi-location	Single pole
<b>Ambient light detection</b>	Smart	Smart	Smart	Smart
<b>Tamper-resistant lens</b>			✓	✓
<b>Energy code met</b>	Automatic shutoff	Automatic shutoff	Automatic shutoff	Automatic shutoff Multi-level lighting**

\* XX denotes color suffix

\*\* Meets this requirement when bi-level control is allowed

† Neutral models only. No neutral models are single pole only.

	 <b>C-L dimmer sensor</b>	 <b>0-10V dimmer sensor</b>	 <b>Single-circuit dual-tech</b>	 <b>Dual-circuit dual-tech</b>
<b>Model number</b>	MSCL-OP153M-XX* C-L technology	MS-Z101-XX* MS-Z101-V-XX* vacancy-only model	MS-A102-XX* MS-B102-XX† neutral model	MS-A202-XX* MS-B202-XX† neutral model
<b>Key applications</b>	 Kid's room Kitchen	 Private office Conference room	 Private office Bathroom	 Conference room Training room
<b>Technology</b>	XCT PIR	XCT PIR	XCT dual-technology (PIR and ultrasound)	XCT dual-technology (PIR and ultrasound)
<b>Coverage (sq ft)</b>	900 (major) 400 (minor)	900 (major) 400 (minor)	900 (major) 400 (minor)	900 (major) 400 (minor)
<b>Timeout</b>	1, 5, 15, or 30 minutes	1, 5, 15, or 30 minutes	1, 5, 15, or 30 minutes	1, 5, 15, or 30 minutes per circuit
<b>Voltage</b>	120V	120-277 V	120-277 V	120-277V per circuit
<b>Amperage/wattage</b>	600W inc/halogen 150W CFL/LED	8A Lighting neutral optional	6A lighting 4.4A fan (120V) per circuit	6A lighting 4.4A fan (120V) per circuit
<b>Single pole, 3-way, multi-location</b>	3-way/multi-location	3-way/multi-location	3-way/multi-location†	3-way†
<b>Ambient light detection</b>	Smart	Smart or fixed	Smart or fixed	Smart or fixed
<b>Tamper-resistant lens</b>		✓	✓	✓
<b>Energy code met</b>	Automatic shutoff Multi-level lighting**	Automatic shutoff Multi-level lighting**	Automatic shutoff	Automatic shutoff Multi-level lighting**

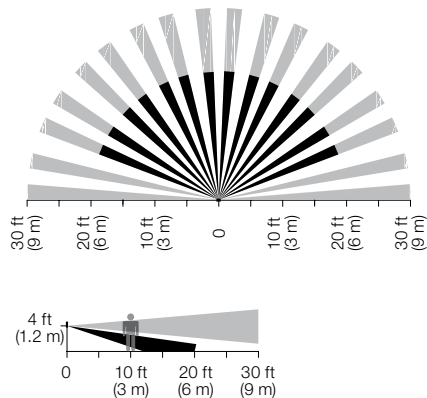
Multi-location dimmers/switches work with up to nine companion dimmers/switches  
3-way dimmers work with mechanical 3-way switches  
Vacancy-only models available. Replace the "O" in the model number with a "V"  
For dual-tech or 0-10V vacancy models, add -V- before color code (XX)

# Additional product information

## Coverage patterns

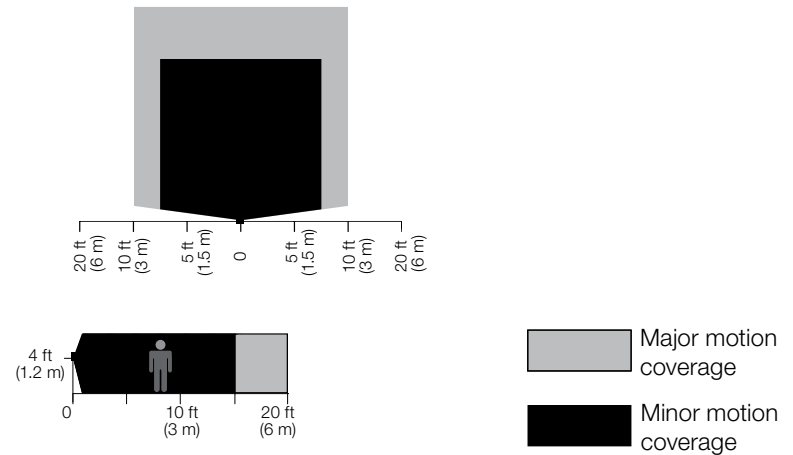
### PIR beam diagram

(for reference only)



### Ultrasonic coverage

(for reference only)



## Code information

### Lutron.com/energycodes

- Automatic shutoff
- Multi-level light controls (dimmers and dual-circuit)
- CA Title 20/24 2013
- ASHRAE 90.1 2010
- IECC 2012

## 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



Greenbriar



Stone



[www.lutron.com](http://www.lutron.com)



World Headquarters 1.610.282.3800  
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