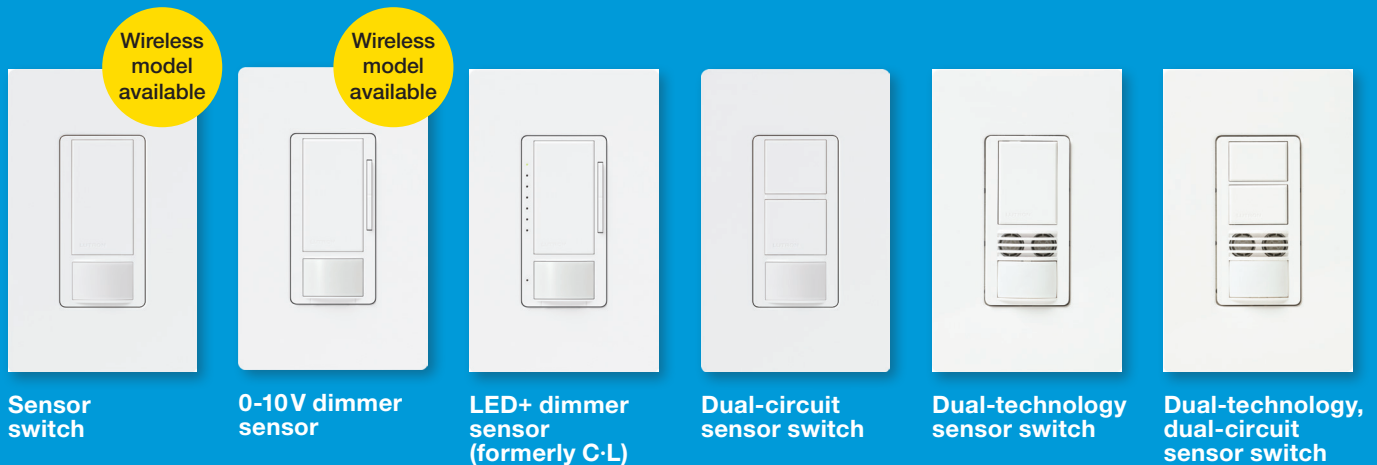


# Maestro In-Wall Sensors

Lutron quality and performance, now in a sensor.



- **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 and no neutral required
  - Passive infrared (PIR) and dual-technology sensing
  - 0-10V dimmer for 0-10V fluorescent and LED fixtures
  - LED+ dimmer for dimmable LEDs and CFLs
- **NEW Wireless models**
  - Delivers the simplicity of an in-wall sensor with the added benefits of Vive
  - Combines occupancy sensing, manual control, and system connectivity in one piece of hardware





**For more information:**  
[lutron.com/OccVacSensors](http://lutron.com/OccVacSensors)

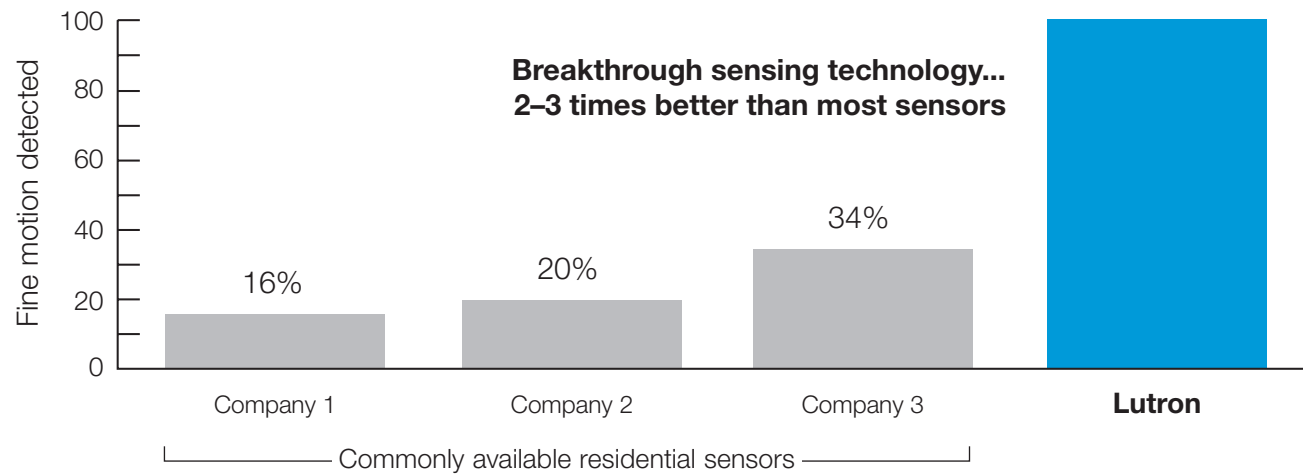
**Order now:**  
Contact your local electrical distributor

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.

<p>✓ <b>Major Motion</b></p>  <p>Person walking 3 feet</p>	<p>✓ <b>Minor Motion</b></p>  <p>Movements like extending your arm</p>	<p>✓ <b>Fine Motion</b></p>  <p>Small movements like flipping pages of a book</p>	<p>✓ <b>No False-On</b></p>  <p>Lights stay off when room is unoccupied</p>
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For testing methods see [lutron.com/sensortest638](http://lutron.com/sensortest638)

✓ **Very fine motion**



Minimal movements like typing on a keyboard

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

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

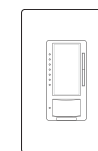
Durable design with modern, clean aesthetic

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

- Extended relay lifetime (250,000 on/off switch cycles)
- Tamper-resistant lens
- Any voltage, any phase (120V-only sensors also available)
- Ambient light detection (set to learnable or fixed)
- Available in 25 colors

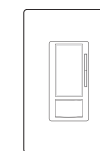
Controls all lighting and fan loads

<b>LED</b>	<b>CFL</b>	<b>Incandescent/halogen</b>	<b>Magnetic low voltage</b>	<b>Electronic low voltage</b>	<b>Low voltage LED</b>	<b>Fluorescent/LED</b>	<b>120V Fan</b>
LED+ dimmer model can dim these loads					0-10V dimmer model can dim these loads		



**LED+ dimmer sensor**

- Combines a Maestro LED+ dimmer with an occupancy or vacancy sensor
- Controls up to 150W dimmable LED/CFL or 600W incandescent/halogen



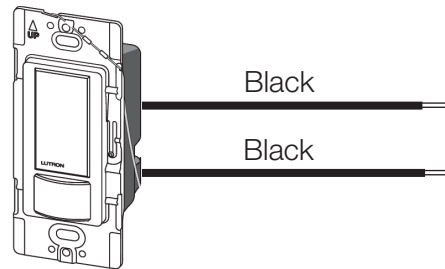
**0-10V dimmer sensor**

- Optimized for ideal sensitivity
- Settings are simple to adjust—no dip switches or dials

## Simplified Wiring

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

**Single-circuit** (including dimming)



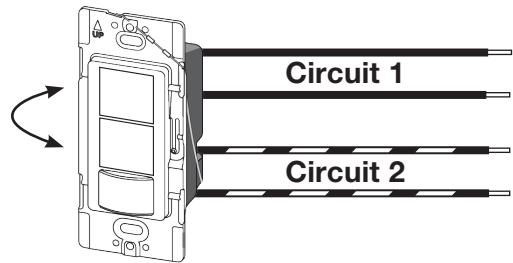
**Any voltage**

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

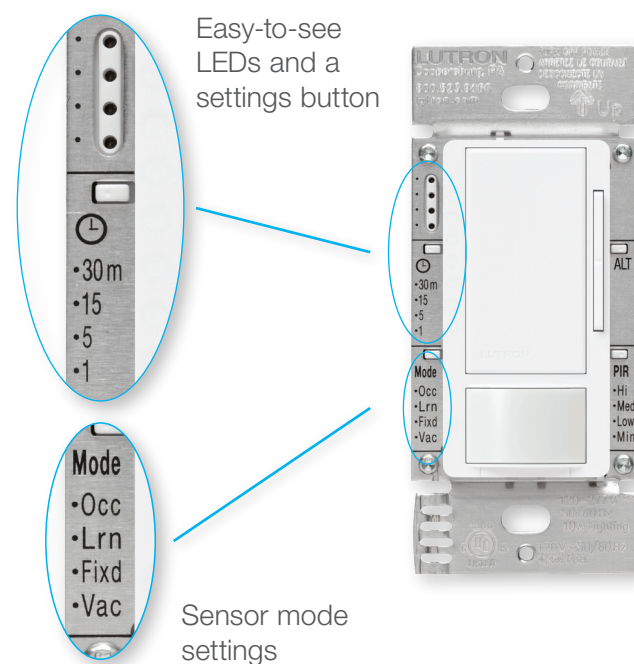
Change circuit with button press; no rewiring

\* Dual-technology no neutral models available, 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 LEDs to indicate settings
- Dual-circuit models feature independent settings per circuit



Wireless sensors communicate to other wireless devices using Lutron's Clear Connect RF technology

### Extend Coverage

- Add a Radio Powr Savr occupancy/vacancy sensor for additional coverage in a space



Ceiling mount  
LRF2-OCR2B-P-WH



Wall mount  
LRF2-OWLB-P-WH  
Corner mount  
LRF2-OKLB-P-WH  
Hallway  
LRF2-OHLB-P-WH



**Maestro Wireless models**  
0-10V dimmer sensor and 8A sensor switch

### Enhance control

- Mount a Pico wireless remote to a wall or place it on a tabletop stand for flexible control from anywhere in the room
- Add a daylight sensor to dim lights when natural light is available



Pico wireless remote  
PJ2-3BRL-GXX-L01



Wallplate adapter  
PICO-WBX-ADPT  
Wallplate  
CW-1-XX



Tabletop pedestal  
L-PEDX-XX



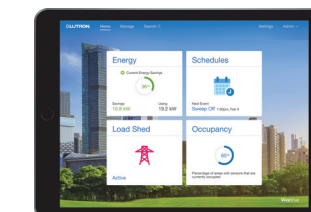
Radio Powr Savr  
daylight sensor  
LRF2-DCRB-WH

### Make your system smarter

- Add a Vive wireless hub for centralized control and integration
- Use Vive Vue software to deliver advanced intelligence necessary for today's smart buildings and the IoT











Vive wireless hub  
HJS-0-FM













Vive Vue software

# Sensor model information and key applications

	 <b>2A and 5A PIR</b>	 <b>6A PIR</b>	 <b>RF PIR</b>	 <b>PIR dual-circuit</b>
<b>Model number</b>	MS-OPS2-XX* no neutral required (2A model) MS-OPS5M-XX* no neutral required (5A model)	MS-OPS6M2-DV-XX* no neutral required MS-OPS6M2U-DV-XX* neutral optional	MRF2S-8SS-XX* neutral required	MS-OPS6-DDV-XX* no neutral required
<b>Key applications</b>	 Small space Kitchen	 Breakroom Office	 Bathroom Private 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	120-277V	120V/277V	120-277V per circuit
<b>Amperage/wattage</b>	2A lighting (2A model) 5A lighting (5A model) 3A (120V) fan (5A model)	6A lighting 3A (120V) fan	8A lighting	6A lighting 4.4A fan (120V) per circuit
<b>Single pole, 3-way, multi-location</b>	Single pole/3-way/ multi-location	Single pole/3-way/ multi-location	Single pole/3-way/ multi-location	Single pole
<b>Ambient light detection</b>	Smart	Smart	Smart or fixed	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

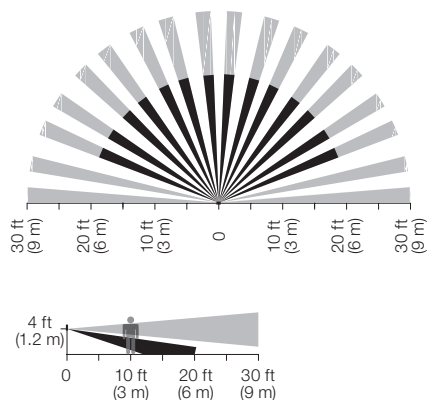
	 <b>LED+ dimmer sensor</b>	 <b>0-10V dimmer sensor</b>	 <b>RF 0-10V dimmer sensor</b>	 <b>Dual-tech</b>	 <b>Dual-tech dual-circuit</b>
<b>Model number</b>	MSCL-OP153M-XX* no neutral required	MS-Z101-XX* neutral optional	MRF2S-8SD010V-XX* neutral required	MS-A102-XX* no neutral required MS-B102-XX* neutral required	MS-A202-XX* no neutral required MS-B202-XX* neutral required
<b>Key applications</b>	 Kid's room Kitchen	 Private office Conference room	 Conference room Private office	 Private office Bathroom	 Conference room Training room
<b>Technology</b>	XCT PIR	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)	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	1, 5, 15, or 30 minutes per circuit
<b>Voltage</b>	120V	120-277V	120/277V	120-277V	120-277V per circuit
<b>Amperage/wattage</b>	600W inc/halogen 150W LED/CFL	8A lighting	8A lighting	6A lighting 4.4A fan (120V)	6A lighting 4.4A fan (120V) per circuit
<b>Single pole, 3-way, multi-location</b>	Single pole/3-way/ multi-location	Single pole/3-way/ multi-location	Single pole/3-way/ multi-location	Single pole/3-way/ multi-location (neutral model only)	Single pole/3-way (neutral model only)
<b>Ambient light detection</b>	Smart	Smart or fixed	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 Multi-level lighting**	Automatic shutoff	Automatic shutoff Multi-level lighting**

Multi-location dimmers/switches work with up to nine companion dimmers/switches, unless RF models, which work with Pico remote controls  
3-way dimmers work with mechanical 3-way switches, unless RF models, which work with Pico remote controls  
Vacancy-only models available. Replace the "O" in the model number with a "V", or for dual-tech or 0-10V vacancy models, add -V- before color code (XX)  
For dual-tech sensors, only neutral optional models allow for 3-way or multi-location applications

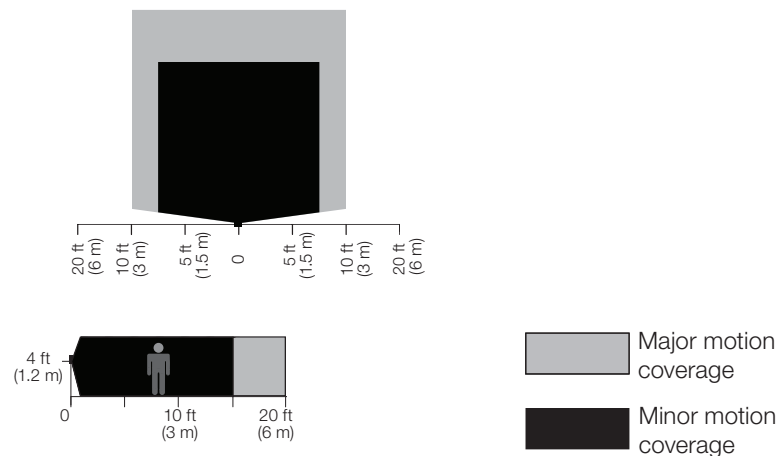
# Additional product information

## 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 25 colors; 7 gloss and 18 Satin Colors.

- Gloss colors ship in 2 days
- Satin colors ship in 2-10 days



## All Lutron products backed by world-class support

### Lutron.com/support

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



### lutron.com

World Headquarters 1.610.282.3800  
Technical Support 1.800.523.9466 (Available 24/7)  
Customer Service 1.888.LUTRON1 (1.888.588.7661)

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