

Maestro RF 0–10 V Sensor Dimmer/ RF Sensor Switch

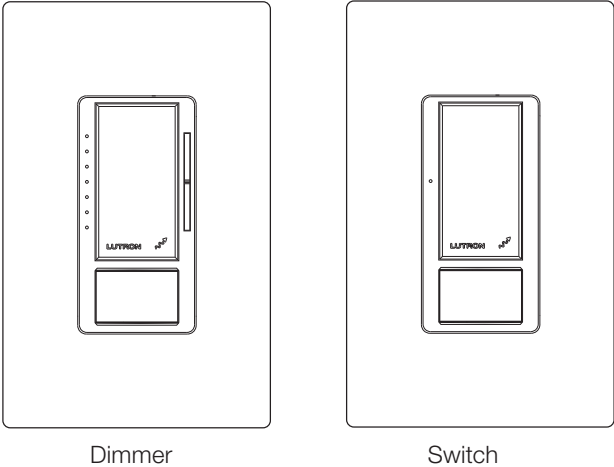
Lutron Maestro RF 0–10 V Sensor Dimmer/ RF Sensor Switches are lighting controls with passive infrared sensors that automatically control the lights in an area. These sensors detect heat from occupants moving within an area to determine when the space is occupied.

Features Lutron Clear Connect RF technology, which enables wireless communication with Radio Powr Savr sensors, and Pico remote controls for light control and general switched loads.

These products are also compatible with the Vive hub which enables a simple setup process using a standard web browser on any Wi-Fi enabled phone, tablet or computer. It also enables control and monitoring of all Vive devices. The Vive hub can be added at any time, however system reprogramming will be required. For a complete list of features supported with the Vive hub, see specification submittal 369902 at www.lutron.com

Features

- Controls 0–10 V $\overline{=}$ electronic fluorescent ballasts or LED driver load types¹
- Passive infrared motion detection with exclusive Lutron XCT Technology for fine motion detection
- 180° sensor field-of-view
- Up to 30 ft × 30 ft (9 m × 9 m) [900 ft² (81 m²)] major motion coverage and 20 ft × 20 ft (6 m × 6 m) [400 ft² (36 m²)] minor motion coverage
- Occupancy version can be set to auto-on/auto-off or manual-on/auto-off
- Adjustable timeout (1, 5, 15, or 30 minutes)
- Adjustable settings for auto-on light level (occupied level): Fully adjustable from 1%–100%
- Adjustable settings for auto-off light level (occupied level): Fully adjustable from 0%–100%
- Adjustable sensitivity level: High, Med, Low, Min
- Off warning fades lights to off over a period of 10 seconds¹
- Adaptive switching algorithm for extended relay life
- Smart ambient light detection (ALD)
- Works with up to 10 Pico remote controls, 1 daylight, and 10 Radio Powr Savr PIR sensors
- High-end trim and low-end trim to adjust maximum and minimum light levels



¹ Only available with the sensor dimmer. Not available with the sensor switch.

Models Available

Model Number	Description	Sensor Operation	Load Types
MRF2S-8SD010-XX ¹	Occupancy/vacancy single-pole/multi-location sensor dimmer	Auto-On / Auto-Off or Manual-On / Auto-Off	For use with permanently installed electronic fluorescent ballast or LED driver lighting loads
MRF2S-8SS-XX ¹	Occupancy/vacancy single-pole/multi-location sensor switch	Auto-On / Auto-Off or Manual-On / Auto-Off	For use with all lighting loads
MRF2S-8SDV010-XX ¹	Vacancy single-pole/multi-location sensor dimmer	Manual-On / Auto-Off	For use with permanently installed electronic fluorescent ballast or LED driver lighting loads
MRF2S-8SSV-XX ¹	Vacancy single-pole/multi-location sensor switch	Manual-On / Auto-Off	For use with all lighting loads

¹ XX in model number represents color/finish code. See **Colors and Finishes** on page 10.

Notes:

- Neutral is required for product to function. If a neutral wire is not present, consult a licensed electrician.
- When power is applied, the sensor dimmer/switch can be manually turned on or off after the first 10 seconds and will automatically control the load after 2 minutes.
- The sensor dimmer works with all ballasts and drivers that provide a current source compliant to IEC 60929 Annex E.2.
- The 0–10 V $\overline{\text{=}}$ control wires are not to exceed 250 ft (76.2 m) in length, and must have a size of no less than 20 AWG (0.75 mm²).
- The 0–10 V $\overline{\text{=}}$ wires may be installed as Class 1 or Class 2 per NEC® or local jurisdiction.
- Do not install dimmers/switches to control receptacles or motor-operated appliances.

Job Name:	Model Numbers:
Job Number:	

Specifications

Regulatory Approvals

- UL® Listed to U.S. and Canadian safety requirements
- Complies with Title 20 and Title 24 Section 110.9

Power

- Operating voltage: 120/277 V~ 50/60 Hz, 8 A (USA), 120 V~ 50/60 Hz, 8 A (Canada) of 0–10 V== electronic fluorescent ballasts or LED drivers for sensor dimmer, and all lighting loads for sensor switch

Loads

- **Sensor Dimmer**
 - Works with all ballasts and drivers that provide a current source compliant to IEC 60929 Annex E.2, and whose inrush current does not exceed NEMA 410 standards for electronic ballast/driver loads of 8 A steady state current
 - Supports Electronic Off functionality for voltages less than 0.5 V
 - 50 mA max sink current
 - Controls up to 25 ballasts or drivers (IEC 60929 Annex E.2 requires the ballast/driver to limit the current to 2.0 mA maximum)
 - No minimum load
- **Sensor Switch**
 - Works with all lighting loads

Environment

- Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0%–90% humidity, non-condensing; indoor use only

Warranty

- 5 Year Limited Warranty
- For additional Warranty information, please visit:
www.lutron.com/TechnicalDocumentLibrary/Sensor_Warranty.pdf

Key Design Features

Dimmer

- On a single-tap, lights fade On or Off to previous level
- On a double-tap, lights go to full On
- Light levels can be fine-tuned by pressing and holding the dimming rocker until the desired light level is reached
- High-end trim (adjust maximum light level that can be achieved, for energy savings)
- Low-end trim (adjust minimum light level that can be dimmed down, to prevent flickering lights)

Vive System Communications and Capacity

- Maestro Wireless controls communicate with the Pico remote controls and Radio Powr Savr sensors through radio frequency (RF).
- Receives wireless inputs from up to 10 Pico remote controls, 10 Radio Powr Savr occupancy/vacancy sensors, and 1 Radio Powr Savr daylight sensor.
- Maestro Wireless local controls must be located within 60 ft (18 m) line-of-sight or 30 ft (9 m) through walls, of Radio Powr Savr sensors and Pico remote controls. The 60 ft (18 m) range is not reduced by a ceiling tile obstruction.

Additional Information on Sensors

- For more information, please see www.lutron.com/occvacsensors
- Lutron Customer Assistance: 1.844.LUTRON1

Job Name:

Model Numbers:

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