Designer-style: Maestro®

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Maestro Wireless® Dimmers and Switches

The Maestro Wireless® solution incorporates Maestro Wireless® load controls, wireless sensors, and wireless remote controls, which provide a system that delivers energy savings, convenience, and ease of installation.

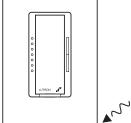
Maestro Wireless® dimmers and switches use Lutron® patented Clear Connect® RF Technology, which enables wireless communication with Radio Powr Savr™ sensors and Pico® wireless controls for light control and general switched loads.

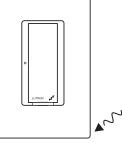
Features

- The Maestro Wireless® solution provides dimming/ switching of multiple load types, occupancy/vacancy sensing, daylight harvesting, and high-end trim.
- Lutron_® patented Clear Connect_® RF Technology works through walls and floors.
- Incorporates advanced features such as fade ON/fade OFF, high-end trim, and rapid full-ON.
- Controls include Front Accessible Service Switch (FASS™) for safe lamp replacement.
- Two-wire dimmers and switches available for retrofit applications.
- Power failure memory: If power is interrupted, the control will return to its previously set level prior to interruption.

Maestro Wireless® Controls

Receiving Devices

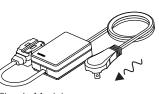




Neutral and Non-Neutral Dimmers



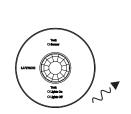
Neutral and Non-Neutral Switches

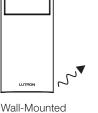


Lamp Dimmers

Plug-In Modules

Transmitting Devices Radio Powr Savrm Sensors





Occupancy and Vacancy Sensors



Daylight Modules

Dago

Ceiling-Mounted Occupancy and Vacancy Sensors

Pico_® Wireless Controls







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Job Name:		Model Numbers:			
	Job Number:				

RF Local Controls

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Maestro Wireless® Dimmers

Models Available

Dimmers

CFL/LED/Halogen/Incandescent/Magnetic Low-Voltage

•	o o					
MRF2-6CL-XX	150 W CFL/LED Dimmer; 600 W Incandescent/Halogen 120 V \sim					
MRF2-6MLV-XX	600 W/600 VA Incandescent/MLV Dimmer 120 V \sim					
MRF2-6ND-120-XX*	600 W/600 VA Spec-Grade Neutral wire Dimmer 120 V \sim					
MRF2-10D-120-XX	1000 W/1000 VA Spec-Grade Dimmer 120 V \sim					
3-Wire Fluorescent						
MRF2-F6AN-DV-XX*	6 A 3-wire Fluorescent Spec-Grade Neutral-Wire Dimmer 120–277 V $\!\sim$					
Electronic Low-Voltage Dimmer						

MRF2-6ELV-120-XX* 600 W ELV Dimmer 120 V~

Neutral wire required

Companion Dimmers

Claro					
MA-R-XX	Companion Dimmer 120 V \sim				
MA-R-277-XX	Companion Dimmer 277 V \sim				
Satin Colors _® Satin Finishes					
MSC-AD-XX	Companion Dimmer 120 V \sim				
MSC-AD-277-XX	Companion Dimmer 277 V \sim				

"XX" in the model number represents color/finish code.

Dimmer

Companion Dimmer



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Job Name:	Model Numbers:
Job Number:	

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Ganging and Derating

When combining controls in the same wallbox, derating is required (see Load Type and Capacity tables). Only MRF2-8ANS controls have fins that need to be removed for multigang installations. No other controls have fins, but they must still be derated in multigang installations.

Dimmer Load Type and Capacity

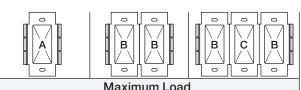
Do not remove outside fins on ends of ganged controls

(shaded areas below) В В

Neutral Required

Control	Valtaga	Load Type	Minimum Load	Maximum Load				
Control	Voltage			A: Not Ganged	B: End of Gang	C: Middle of Gang		
MRF2-6ND-120 ^{1,2,3}	120 V~	Incandescent	25 W	600 W	500 W	400 W		
WIRF2-0IND-120",=,0		MLV ²	25 W/VA	450 W/600 VA	400 W/500 VA	300 W/400 VA		
MRF2-6ELV ^{1,2}	120 V~	ELV ²	5 W	600 W	500 W	400 W		
MRF2-F6AN-DV ^{1,4}	120-277 V∼	Lighting	1 ballast 0.05 A	6 A	5 A	3 A		

No Neutral Required



Control	Voltogo	Lood Tone	Minimum Lood	Maximum Load			
Control	Voltage	Load Type	Minimum Load	A: Not Ganged	B: End of Gang	C: Middle of Gang	
MRF2-6CL1	120 V~	Incandescent, CLF/LED	50 W (see lamp list)	See Mixing Lamp	Types, page 4		
MRF2-6MLV ^{1,2,4}	120 V~	MLV ²	50 VA	450 W/600 VA	400 W/500 VA	300 W/400 VA	
MRF2-10D-120 ^{1,2,4}	120 V~	Incan	Incandescent	50 W	1000 W	800 W	650 W
		MLV ²	50 W/VA	800 W/1000 VA	600 W/800 VA	500 W/650 VA	

Dimmer Load Type:

 MRF2-6ND-120, MRF2-6MLV, and MRF2-10D-120 are designed for use with permanently-installed incandescent, magnetic low-voltage, or tungsten halogen only

 MRF2-6ELV is designed for use with permanently-installed electronic low-voltage only. Do not install dimmers to control receptacles or motor-operated appliances

MRF2-F6AN-DV is designed for use with permanently installed 3-wire line voltage control fluorescent ballasts or LED drivers only (Hi-lume», Hi-lume Compact SE™, Eco-10®, and EcoSystem®).

MRF2-6CL is designed for use with permanently-installed incandescent, CFL, LED, or tungsten halogen only.

Use MRF2-6ND-120, MRF2-6MLV, and MRF2-10D-120 with magnetic (core and coil) low-voltage transformers only. Not for use with electronic (solid-state)

low-voltage transformers. Use MRF2-6ELV with electronic (solid-state) low-voltage transformers only. Operation of a low-voltage circuit with lamps inoperative or removed may result in transformer overheating and premature failure. Lutron strongly recommends the following:

Do not operate low-voltage circuits without operative lamps in place.

Replace burned-out lamps as quickly as possible.

- Use transformers that incorporate thermal protection or fused transformer primary windings to prevent transformer failure due to overcurrent.

Can control the following power booster/load interface: Hi-Power 20406TM Boosters (HP-2, HP-4, HP-6) for control of most popular lighting sources including Lutron_® 3-wire line-voltage control fluorescent dimming ballasts (Hi-lume_®, Hi-lume Compact SETM, Eco-10_®, and EcoSystem_®).

Can control the following power boosters/load interfaces: Phase-adaptive Power Modules (PHPM-WBX-DV-WH), 3-wire Fluorescent Power Modules (PHPM-3F-DV-WH), Tu-Wire® Fluorescent Power Modules (PHPM-PA-DV-WH), and 0–10 V (GRX-TVI).

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RF Local Controls

Designer-style: Maestro®

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Dimmer Load Type and Capacity (continued)

Mixing Lamp Types

Mixing lamp types (using a combination of CFL/LED, and Incandescent/Halogen bulbs) and ganging with other dimmers or electronic switches may reduce maximum wattage, as shown. Example: If fins from one side of dimmer are removed and you have two 24 W bulbs installed (total CFL Wattage = 48 W), you may add up to 300 W of incandescent or halogen lighting.

		Do not remove outside fins on ends of ganged controls (shaded areas below)				
	_					
Total CFL/LED Wattage		Total II	ncar	ndescent/Halo	oger	n Wattage
		A: Not Gange	dE	B: End of Gan	g C	: Middle of Gang
MRF2-6CL					-	
0 W	+	50 W-600 W	Or	50 W-500 W	Or	50 W-400 W
1 W-25 W	+	0 W–500 W	Or	0 W–400 W	Or	0 W–300 W
26 W-50 W	+	0 W–400 W	Or	0 W–300 W	Or	0 W–200 W
51 W-75 W	+	0 W–300 W	Or	0 W–200 W	Or	0 W–100 W
76 W-100 W	+	0 W–200 W	Or	0 W–100 W	Or	0 W–50 W
101 W-125 W	+	0 W–100 W	Or	0 W–50 W	Or	0 W

LUTRON SPECIFICATION SUBMITTAL

Page Job Name: Model Numbers: Job Number:

Specifications

Regulatory Approvals

- UL Listed.
- cUL Listed (MRF2-6CL only).
- CSA Certified (except for MRF2-6CL).
- FCC Approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
- Industry Canada Certified.

Power

Operating voltage:

- 120 V~ 50/60 Hz (all models)
- 277 V~ 50/60 Hz (MRF2-6ANS-277, MRF2-8S-DV, MRF2-F6AN-DV)

Key Design Features

Dimmers

- On a single-tap, lights fade UP or DOWN.
- On a double-tap, lights go to full ON.
- When ON, press and hold to engage 20-second fade to OFF.
- Light levels can be fine-tuned by pressing and holding the dimming rocker until the desired light level is reached.
- Two-wire dimmers available.

Switches

- On a single-tap, lights turn ON or OFF.
- Two-wire switches available.

All RF Local Controls

- Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
- Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.
- Controls always operate locally and do not require system control.
- Power failure memory: should power be interrupted, the control will return to its previously-set level prior to the interruption when power is restored.
- Uses conventional 3-way and 4-way wiring.

- Multiple location control from Dimmer/Switch and up to nine Companion Dimmers/Switches.
- Use Lutron_® Designer (Claro_® and Satin Colors_®) wallplates or designer-style wallplates from other manufacturers. Wallplates are sold separately.
- Lutron Claro[®] and Satin Colors[®] wallplates snap on with no visible means of attachment.
- Requires a one-gang U.S. wallbox; 3½ in (89 mm) deep recommended, 2¼ in (57 mm) deep minimum.
- Green indicator lights.

System Communications and Capacity

- Maestro Wireless_® controls communicate with the Pico_® wireless controls and Radio Power Savr™ sensors through radio frequency (RF).
- Maestro Wireless_® local controls must be located within 60 ft (18 m) line-of-sight or 30 ft (9 m) through walls, of Radio Power Savr™ sensors.
- Maestro Wireless® local controls must be located within 100 ft (30 m) line-of-sight or 30 ft (9 m) through walls, of a Pico® wireless control.
- Up to ten Maestro Wireless® controls can be configured to work together.

Environment

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

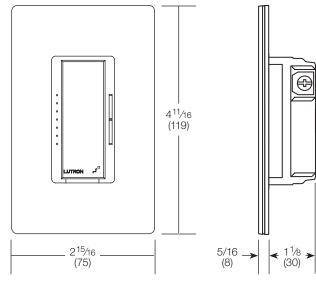
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Dimensions

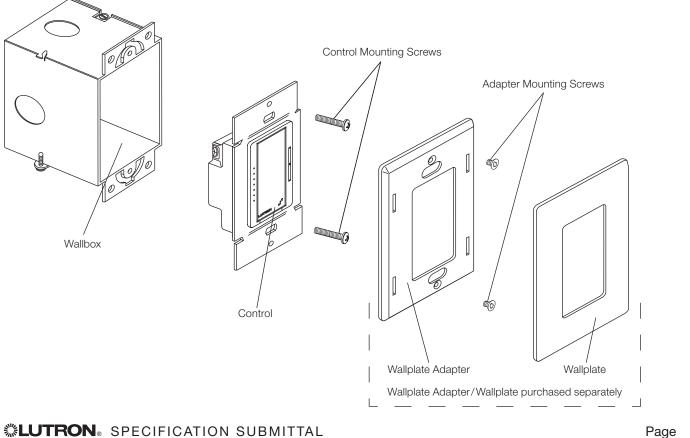
All dimensions are shown as: in (mm)

Front View

Side View



Mounting



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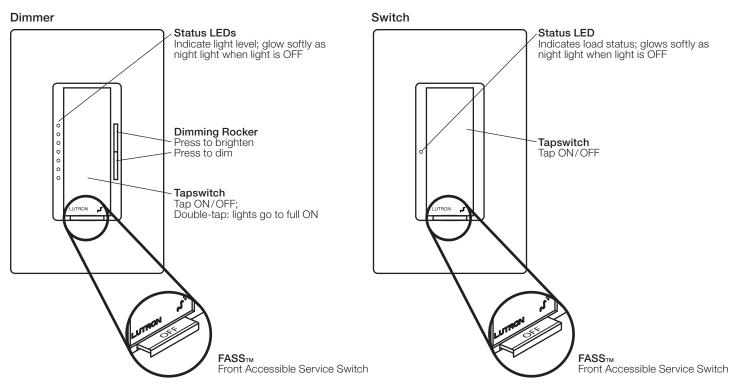
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Designer-style: Maestro®

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Operation



FASS_{TM} Front Accessible Service Switch

Important Notice: To service load, remove power by pulling the FASS™ switch out completely on either the Dimmer/Switch or Companion Dimmer/Switch. After servicing load, push the FASS™ switch back in fully to restore power to the control.

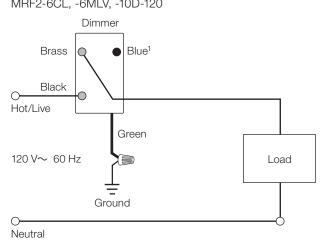
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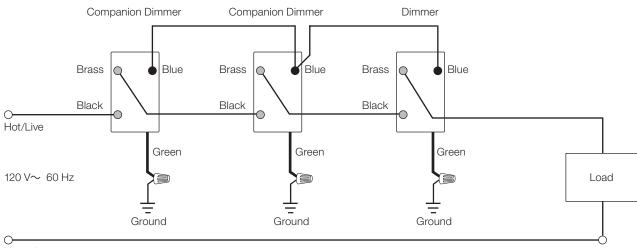
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Wiring Diagrams

Single-Location Dimmer Installation without Neutral MRF2-6CL, -6MLV, -10D-120



Multi-Location Dimmer Installation without Neutral² MRF2-6CL, -6MLV, -10D-120 with MA-R/MSC-AD



Neutral

1 When using controls in single location installations, tighten the blue terminal without any wires attached. Do not connect the blue terminal to any other wiring or to ground.

2 Up to nine Maestro® Companion Dimmers may be connected to the Maestro Wireless® Dimmer. Total blue terminal wire length may be up to 250 ft (76 m).

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RF Local Controls

Designer-style: Maestro®

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Colors and Finishes

Gloss Finishes



Almond

AL

lvory IV

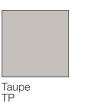
Light Almond LA

Brown

BR



Satin Finishes



Eggshell ES

Merlot

MR





Biscuit

BI

Plum PL

Sienna SI



Mocha Stone MS





Snow SW



Terracotta TC



Goldstone GS

18





Black BL

- Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.
- Color chip keychains are available for more precise color matching: Gloss Finishes: DG-CK-1 Satin Finishes: SC-CK-1



Greenbriar GB

Palladium PD





LS

Metal Finish (wallplate only)



When using Stainless Steel wallplates, it is recommended that you order the keypad in Midnight (MN).

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Job Name:	Model Numbers:		
Job Number:			

Midnight MN

Bluestone BG





Limestone