Maestro C.L PRO Dimmer

Phase-selectable dimmer for LED, ELV, MLV and Incandescent lamp loads.

Features

- Large tapswitch with a rocker-style dimmer for a standard designer wallplate opening.
- Advanced dimming technology designed for compatibility with a broader range of high-efficacy bulbs
- UL_® Listed to control:
 - Dimmable LED with integrated driver
 - Electronic Low-Voltage (ELV)
 - Magnetic Low-Voltage (MLV)
 - Dimmable Compact Fluorescent Lamps (CFLs) with integrated ballast
 - Incandescent and Halogen
 - Philips Advance Mark 10_® ballasts
 - Hi-lume 1% 2-Wire (LTE) LED Driver
- Low-end adjustment to accommodate a wide range of bulbs
- Can be used in single-pole or in multi-location (using MA-R) applications
- Coordinating Claro and Stainless Steel wallplates available separately
- 100% factory tested

Product Specific Features

- NEMA SSL-7A-2015 compliant (in forward-phase mode)
- Neutral optional See Load Type and Capacity table on page 5
- Capable of controlling up to 250 W dimmable LED in reverse-phase (150 W in forward-phase) or 500 W incandescent/Halogen or mixed bulb type per Multigang and Mixed Bulb Type Ratings table (see page 6)
- Capable of controlling up to 500 W of ELV or 400 VA of MLV or up to 20 Hi-lume 1% 2-Wire (LTE) LED drivers
- UL_® Listed for field interchangeable plastics



Wallplate sold separately

Model Number

MA-PRO-XX¹ Single-pole/3-way²/Multi-location

- ¹ "XX" in the model number represents color/finish code. See **Colors and Finishes** on page 4.
- ² For 3-way and 4-way dimming, Maestro companion dimmers must be used.

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Specifications

Regulatory Approvals

- cULus listed
- UL_® Listed to U.S. and Canadian safety requirements (UL 1472/CSA C22.2 184.1)
- NOM
- NEMA SSL-7A-2015 forward phase compliant

Power and Ratings

- 120 V ~ 50/60 Hz
- Maximum Load
 - 250 W Dimmable LED in reverse-phase (150 W in forward phase)

- 500 W Incandescent/Halogen/ELV

or

- 400 VA MLV

or

- 20 Lutron Hi-lume 1% 2-Wire (LTE) LED Drivers
- Mixed bulb type per Multigang and Mixed Bulb Type Ratings table (see page 5)
- Minimum Load
 - See approved lamp list for LED/CFL at www.lutron.com/ledfinder

Environment

- For indoor use only
- Operating temperatures 32 °F (0 °C) to 104 °F (40 °C)
- Relative humidity: 0% to 90% non-condensing

Performance

- Power failure memory: Should power be interrupted, the control will return to its previous state when power is restored.
- 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.
- Tested to withstand electrostatic discharge without damage or memory loss.
- For 3-way and 4-way dimming, use Maestro Companion Dimmers. One dimmer can be used with up to 9 multi-location companion dimmers.
- Total multi-location wire length (blue wire) between all units must not exceed 250 ft (76 m).
- Includes a Front Accessible Service Switch (FASS) for safe bulb replacement.

Application Requirements

- When using LEDs or CFLs, only bulbs marked or rated as Dimmable can be used.
- For a complete list of approved DIMMABLE LEDs and CFLs please visit www.lutron.com/ledfinder

Mounting

• Requires a U.S. wallbox. 3.5 in (89 mm) deep recommended, 2.25 in (57 mm) deep minimum.

Warranty

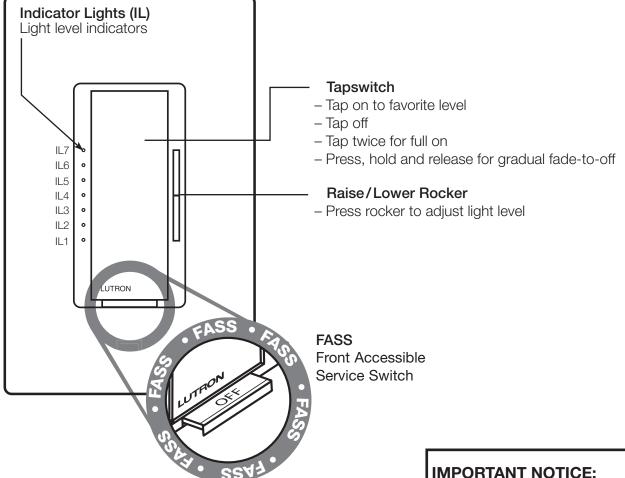
 1 Year Limited Warranty For additional Warranty information, please visit www.lutron.com/TechnicalDocumentLibrary/ 369-119_Wallbox_Warranty.pdf

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Operation



FASS - Front Accessible Service Switch

To replace lamp(s), remove power by pulling the FASS out fully on all main controlling devices. After replacing lamp(s), push the FASS back in fully to restore power to the control(s).

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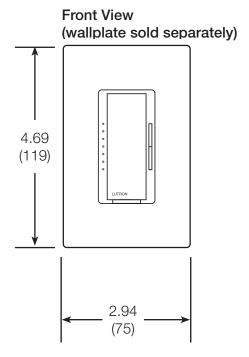
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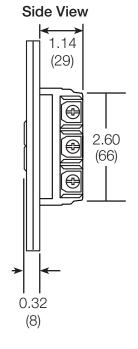
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Dimensions

All dimensions are shown as $\frac{in}{(mm)}$





Colors and Finishes

Gloss Finishes

White

WH

AL	Almond	LA	Light Almond
GR	Gray	BR	Brown
BL	Black		
Satin	Colors		
HT	Hot	MR	Merlot
PL	Plum	TQ	Turquoise
ES	Eggshell	TP	Taupe
SW	Snow	BI	Biscuit
MN	Midnight	PD	Palladium
SI	Sienna	TC	Terracotta
BG	Bluestone	GB	Green Briar
GS	Goldstone	MS	Mocha Stone
ST	Stone	DS	Desert Stone
		LS	Limestone

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Multigang and Mixed-Bulb-Type Ratings

Total LED Wattage Installed			Maximum Allowa Incandescent/Ha	INC/HAL		
(Watts per bulb X # of bulbs)						
Reverse-Phase	Forward-Phase		No sides removed	1 side removed	2 sides removed	
0 W	0 W	+	500 W	400 W	300 W	
1 W – 50 W	1 W – 25 W	+	400 W	300 W	200 W	
51 W – 100 W	26 W – 50 W	+	300 W	200 W	100 W	
101 W – 150 W	51 W – 75 W	+	200 W	100 W	0 W	
151 W – 200 W	76 W – 100 W	+	100 W	0 W	0 W	
201 W – 250 W	101 W – 150 W	+	0 W	0 W	0 W	

Ganging and Derating

When combining controls in the same wallbox, derating is required. See **Load Type and Capacity**. No derating is required for companion devices.

Load Type and Capacity

Model	Description	on Voltage	ge Load Type	Minimum Load	Maximum Load			Neutral	Required Phase
Number	Description				Not Ganged	End of Gang	Middle of gang	Neutrai	Mode
			LED ²	1 bulb	250 W	No Deratir	ng Required	Optional ⁸	Reverse
			LED/CFL ^{2,3}	1 bulb	150 W	125 W	100 W	Optional ⁸	Forward
			MLV Transformer with LED	Co	0. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				Forward
	Phase- Selectable Neutral Optional Dimmer		ELV Transformer with LED	Se	See Application Note #559 (P/N 048559) at www.lutron.com				
		electable Neutral 120 V~ Optional	MLV Transformer with Halogen 4,5,6,	10 W	400 VA (300 W)	No Derating Required		Required	Forward
MA-PRO-XX ^{1,2}			ELV Transformer with Halogen ^{4,5}	10 W	500 W	400 W	300 W	Required	Reverse
			Incandescent/ Halogen	5 W	500 W	400 W	300 W	Optional ⁸	Either
			Dimmable Fluorescent Ballast ⁷	1 ballast	3.3 A (400 VA)	No Deratir	ng Required	Required	Forward
			Hi-lume 1% 2-Wire (LTE) LED Drivers ³	1 driver	3.3 A (400 W) 20 drivers max	No Deratir	ng Required	Required	Forward
			PHPM-PA/3F and GRX-TVI	1 interface	3 interfaces	No Deratir	ng Required	Required	Forward

- 1 Designed for use with permanently installed LED, incandescent, tungsten halogen, or magnetic low-voltage transformers with halogen based lamps.
- ² See bulb list at www.lutron.com/ledfinder
- SSL-7A-2015 compliant when in forward-phase.
- When using magnetic (core and coil) low-voltage transformers with halogen lamps set the dimmer to forward-phase. When using with dimmable electronic (solid-state) low-voltage transformers set the dimmer to reverse-phase.
- 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 soon as possible.
 - Use transformers that incorporate thermal protection or fused transformer primary windings to prevent transformer failure due to overcurrent.
- When using the dimmer/switch to control MLV halogen fixtures, the maximum lamp wattage is determined by the efficiency of the transformer, with 70%–85% as typical. For actual transformer efficiency, contact either the fixture or transformer manufacturer. The total VA rating of the transformer(s) shall not exceed the VA rating of the dimmer/switch.
- Includes Philips Advance Mark 10₉ ballasts, Sylvania, Tu-Wire, and POWERSENSE₉.
- Neutral is recommended for best dimming performance, if available, but is not required for this load type.

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Advanced Programming Mode

Maestro dimmers and switches contain an Advanced Programming Mode (APM) that allows users to customize the control to meet their specific needs. For a detailed description of APM features and uses please refer to Lutron Application Note #703 (P/N 048703) at www.lutron.com

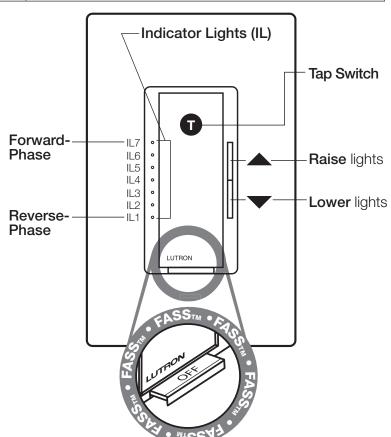
Available Advanced Features				
Feature	Description			
High-end trim	Select the maximum available light limit.			
Low-end trim	Select the minimum available light limit.			
Enable/Disable/Dim Indicator Lights	Select the brightness of the LEDs when the dimmer is Off.			
Delayed long fade-to-off	Set the length of time to wait before entering a long fade-to-off.			
Fade off time	Control the rate at which the dimmer fades from full intensity to Off when the tapswitch is pressed.			
Fade on time	Control the rate at which the dimmer fades from Off to preset intensity when the tapswitch is pressed.			
Protected preset	Set the intensity that the dimmer will always turn on to when the tapswitch is pressed once.			
Phase selectable	Select between forward and reverse dimming phase. Default is reverse.			
Restore default	Select to return dimmer to its original factory settings			

Instructions for selecting phase:

- 1. Open the FASS.
- 2. Press and hold ... Close the FASS and continue to hold ... for 5 seconds.

Note: The current phase selection will illuminate. IL7 (top, forward-phase) or IL1 (bottom, reverse-phase)

- 3. Press the
 or
 to get the desired selection.
- 4. Press **1** to exit Phase Selection mode.



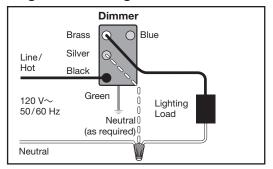
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Wiring Diagrams

Single-Pole Wiring



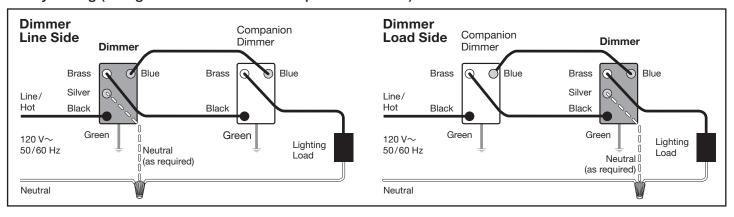
 $\ensuremath{\text{\textbf{Note:}}}$ Dimmer can be installed on the line side or load side

of the circuit.

Note: See Load Type and Capacity table on page 5 for

neutral wire requirements

3-Way Wiring (Using MA-R or MSC-AD Companion Dimmer)



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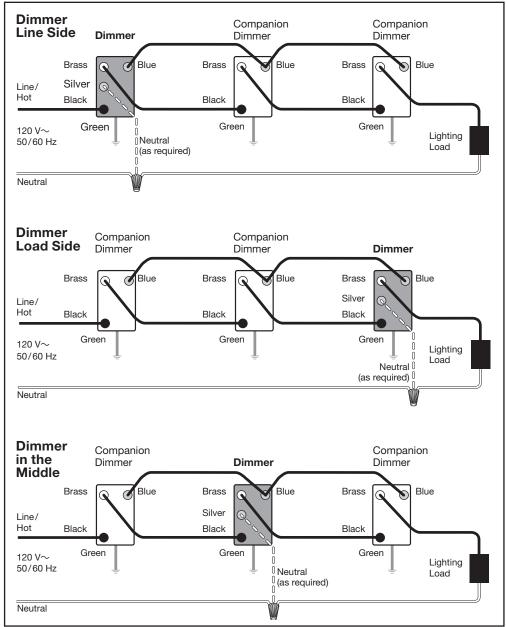
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Wiring Diagrams (continued)

4-Way Wiring (Using MA-R or MSC-AD Companion Dimmer)



Note: Dimmer can be installed on the line side, load side, or in the middle of the circuit.

Note: See Load Type and Capacity table on page 5 for neutral wire requirements

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