

## Caséta® Wireless Load Controls

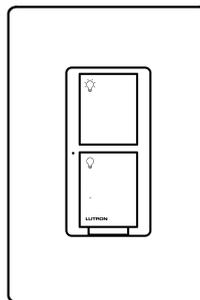
The Caséta® Wireless family of Dimmers and Switches can be controlled directly and remotely when paired with Pico® Remote Controls providing a system that delivers convenience and ease of installation.

Caséta® Wireless Dimmers and Switches use Lutron® patented Clear Connect® RF Technology which enables wireless communication with Pico® Remote Controls and the Lutron® Smart Bridge and Smart Bridge PRO.

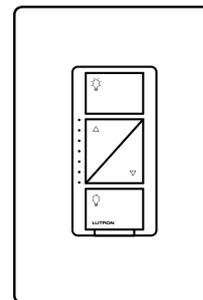
### Features

- Works with Pico® Remote Control
- Works with the Lutron® App (via a Smart Bridge or Smart Bridge PRO)<sup>1</sup>
- Lutron® patented Clear Connect® RF Technology works through walls and floors
- Includes Front Accessible Service Switch (FASS™) for safe lamp replacement
- Works with Lutron® Radio Powr Savr™ Occupancy and Vacancy Sensors in standalone applications (sensors do not work with Smart Bridge or Smart Bridge PRO)

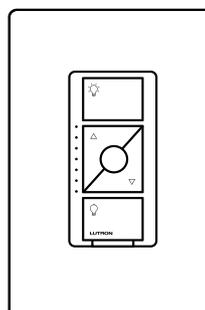
Caséta® Wireless In-Wall Switch



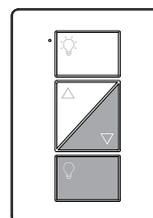
Caséta® Wireless In-Wall Dimmer



Caséta® Wireless ELV+ Dimmer



Caséta® Wireless Plug-In Lamp Dimmer



Note: Certain models or load types will require a neutral connection. (see Load Types and Capacity sections)

<sup>1</sup> The Lutron® App is required for setup and usage with the Smart Bridge and Smart Bridge PRO. The Lutron® App is compatible with iOS® devices version 8.0 or later and Android™ devices 4.0 or later. iOS is a registered trademark of Cisco in the U.S. and other countries and is used under license. Android is a trademark of Google Inc.

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

## Specifications

### Regulatory Approvals

- cULus Listed
- NOM Certified
- FCC Approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules
- Industry Canada Certified
- IFTEL Certified
- NEMA 410 (-6ANS, -5WS, -10NXD, and -5NE)

### Power

Operating voltage:

- 120 V~ 50/60 Hz: -3PCL, -6WCL, -10NXD, -6ANS, -5NE
- 120/277 V~ 50/60 Hz: -5WS-DV

### Key Design Features

- 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.
- Load 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.
- PD-5WS-DV, PD-6ANS, and PD-10NXD use conventional 3-way wiring.
- Uses Lutron® Claro® Wallplates or designer-style wallplates from other manufacturers. Wallplates are sold separately.
- Lutron® Claro® Wallplates snap on with no visible means of attachment.
- Requires a 1-gang U.S. wallbox. 3½ in (89 mm) depth recommended, 2¼ in (57 mm) depth minimum.
- Green status LED(s) to indicate load status.

### System Communications and Capacity

- Caséta® Wireless In-Wall Switches and Dimmers communicate with Pico® remote controls and the Lutron® Smart Bridge/Smart Bridge PRO through Radio Frequency (RF).
- The Caséta® Wireless In-Wall Switches and Dimmers communicate with Lutron® Radio Powr Savr™ Occupancy and Vacancy Sensors in a standalone application. Sensors do not work with Smart Bridge or Smart Bridge PRO.
- The Caséta® Wireless In-Wall Switches and Dimmers must be located within 60 ft (18 m) line-of-sight or 30 ft (9 m) through walls, of Pico® remote controls and Lutron® Smart Bridge devices.

### Device limits

- Pico® Remote Controls and Radio Powr Savr™ Occupancy Sensors: up to 10 devices (total) may be paired to each Caséta® Wireless In-Wall Switch/Dimmer (with no Smart Bridge installed).
- Smart Bridge or Smart Bridge PRO system: up to 50 total wireless devices (Caséta® Wireless Dimmers/Switches, Pico® Remote Controls, and Shades) are supported per system. Smart Bridge or Smart Bridge PRO counts as one device.

### Environment

- Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing. Indoor use only.
- PD-5WS-DV, PD-6ANS, and PD-10NXD can be used with mechanical switch in 3-way applications.

<p><b>Job Name:</b></p>  <p><b>Job Number:</b></p>	<p><b>Model Numbers:</b></p>
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## Features

	PRO Dimmer PD-10NXD	Plug-In Dimmer PD-3PCL	In-Wall Dimmer PD-6WCL	ELV+ Dimmer PD-5NE	2-wire Switch PD-5WS-DV	Neutral Switch PD-6ANS
Simple two-wire installation (no neutral wire required)	√ <sup>1</sup>		√		√	
Capable of dimming loads	√	√	√	√		
Favorite button (user defined one touch light level)				√		
Works with Hi-lume® 1% 2-Wire LED Drivers (Forward-phase only)	√			√	√	√
Works with Power Interfaces (PHPM and GRX TVI)	√			√		
Works with Power Interfaces (PHPM-SW)						√
No wiring required		√				

<sup>1</sup> In some low-wattage applications the PD-10NXD will require a neutral wire connection.

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

## Load Type and Capacity - Switches

Model Number	Description	Voltage	Load Type	Minimum Load	Maximum Load <sup>3</sup>		
					Not Ganged	End of Gang	Middle of Gang
PD-5WS-DV <sup>1</sup>	Two-wire switch	120 V~	Incandescent/ Halogen	25 W	600 W	450 W	350 W
		277 V~	Incandescent/ Halogen	25 W	1350 W	1100 W	800 W
		120 V~	MLV	25 W	600 VA/475 W	450 VA/350 W	350 VA/275 W
		277 V~	MLV	25 W	1350 VA/1075 W	1100 VA/875 W	800 VA/625 W
		120 V~	General Purpose Fan	0.4 A	3 A	3 A	3 A
		120/277 V~	LED	Use LUT-MLC <sup>2</sup>	5 A	4 A	3 A
		120/277 V~	Fluorescent	Use LUT-MLC <sup>2</sup>	5 A	4 A	3 A
		120 V~	ELV	Use LUT-MLC <sup>2</sup>	600 W	450 W	350 W
		277 V~	ELV	Use LUT-MLC <sup>2</sup>	1350 W	1100 W	800 W
PD-6ANS	Neutral-wire switch (neutral connection required)	120 V~	Incandescent/ Halogen	10 W	720 W	720 W	600 W
			MLV	10 W	720 VA	720 VA	600 VA
			Fan	0.1 A	3.6 A	3.6 A	3.6 A
			LED	1 bulb	6 A	6 A	5 A
			Fluorescent	1 ballast	6 A	6 A	5 A
			ELV	10 W	720 VA	720 VA	600 VA
			PHPM-SW	1 interface	3 interfaces	3 interfaces	3 interfaces

<sup>1</sup> No neutral wire required.

<sup>2</sup> To ensure proper operation of the switch with LED, fluorescent, and ELV loads, a LUT-MLC may be required, especially at lower wattages. If the status LED on the switch is flashing or solid red in color, a LUT-MLC must be installed. To guarantee best performance, installing a LUT-MLC with these load types regardless of wattage is recommended. Rarely, some load types may still flicker or glow in the off state even with the LUT-MLC installed, in which case a different load may be required or more than one LUT-MLC is required.

<sup>3</sup> See "Ganging and Derating" section.

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

### Load Type and Capacity - Dimmers

Model Number	Description	Voltage	Load Type	Minimum Load	Maximum Load			
					Not Ganged	End of Gang	Middle of Gang	
PD-10NXD	Wireless In-Wall Dimmer PRO (neutral connection required for certain load types) <sup>4</sup>	120 V~	Incandescent/ Halogen	10 W with neutral (25 W without neutral)	1000 W	800 W	600 W	
			MLV Halogen	10 W	1000 VA	800 VA	600 VA	
			MLV LED	See Application Note #559				
			CFL/LED (120 V~ Rated) <sup>3</sup>	1 bulb <sup>3</sup>	250 W	250 W	250 W	
			Hi-lume® 1% 2-Wire LED drivers	1 driver	1000 W (13 drivers)	800 W (13 drivers)	600 W (13 drivers)	
			Dimmable Ballasts <sup>5</sup>	1 ballast	1000 VA	800 VA	600 VA	
			PHPM-PA/3F and GRX-TVI <sup>4</sup>	1 interface	3 interface	3 interface	3 interface	
PD-3PCL <sup>1</sup>	Wireless Plug-In Lamp Dimmer	120 V~	Incandescent/ Halogen	10 W	300 W	N/A	N/A	
			CFL/LED (120 V~ Rated) <sup>3</sup>	1 bulb <sup>3</sup>	100 W	N/A	N/A	
PD-5NE	Phase Selectable Dimmer (neutral connection required)	120 V~	Incandescent/ Halogen	10 W	500 W	400 W	300 W	
			CFL/LED (120 V~ Rated) <sup>3, 6, 7</sup>	1 bulb <sup>3</sup>	250 W	250 W	250 W	
			MLV Halogen <sup>2, 6, 7</sup>	10 W	400 VA	400 VA	400 VA	
			ELV Halogen	10 W	500 W	400 W	300 W	
			Hi-lume® 1% 2-Wire LED drivers <sup>6, 7</sup>	1 driver	400 W (20 drivers)	400 W (20 drivers)	400 W (20 drivers)	
			Dimmable Ballasts <sup>5, 6, 7</sup>	1 ballast	400 VA	400 VA	400 VA	
			PHPM-PA/3F and GRX-TVI <sup>6, 7</sup>	1 interface	3 interfaces	3 interfaces	3 interfaces	
			ELV LED	See Application Note #559				
MLV LED	See Application Note #559							
PD-6WCL	Wireless In-Wall Dimmer	120 V~	Incandescent/ Halogen	25 W	600 W	500 W	400 W	
			CFL/LED (120 V~ Rated) <sup>3</sup>	1 bulb <sup>3</sup>	150 W	150 W	150 W	

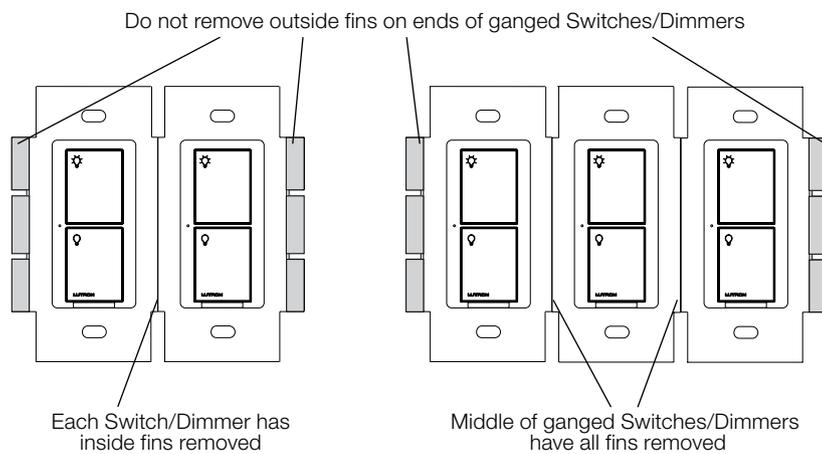
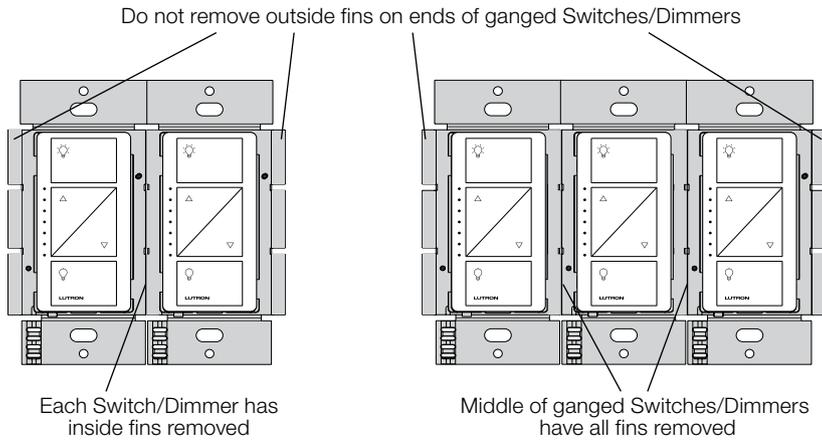
- <sup>1</sup> Cannot be ganged.
- <sup>2</sup> Need to change load type to MLV. See [www.casetawireless.com/change\\_phase](http://www.casetawireless.com/change_phase)
- <sup>3</sup> See bulb list at [www.lutron.com/led](http://www.lutron.com/led)
- <sup>4</sup> For PD-10NXD, a neutral connection is required for MLV loads, LED drivers, dimmable ballasts, and power modules (PHPM-PA, PHPM-3F, and GRX-TVI).
- <sup>5</sup> Compatible dimmable ballasts include Tu-Wire®, Mark X, and PowerSense®.
- <sup>6</sup> These loads are best operated using a forward-phase control. Consult [www.lutron.com/bulblast](http://www.lutron.com/bulblast) to ensure the appropriate phase for bulb models used.
- <sup>7</sup> SSL7 compliant when in forward-phase.

PowerSense is a registered trademark of Osram Sylvania.

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

### Ganging and Derating

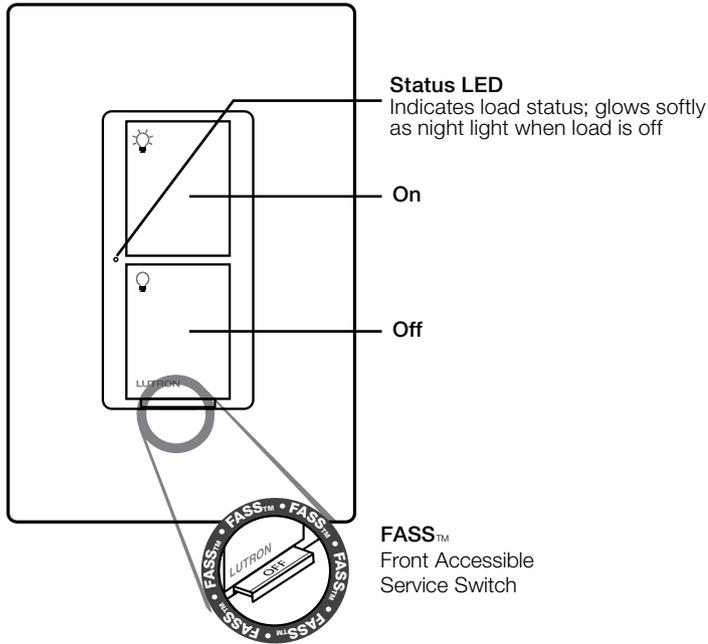
When ganging with other Switches/Dimmers in the same wallbox, derating is required. See “Load Type and Capacity” charts.



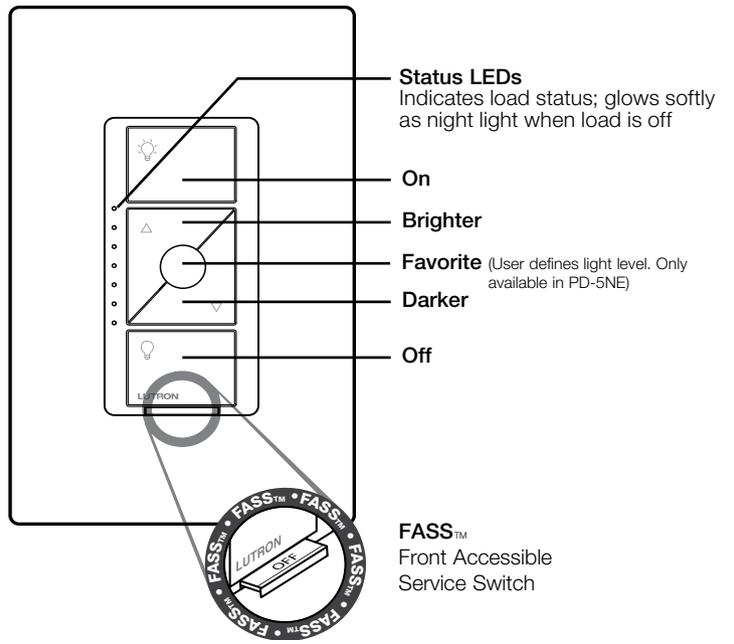
<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

# Operation

In-Wall Switch

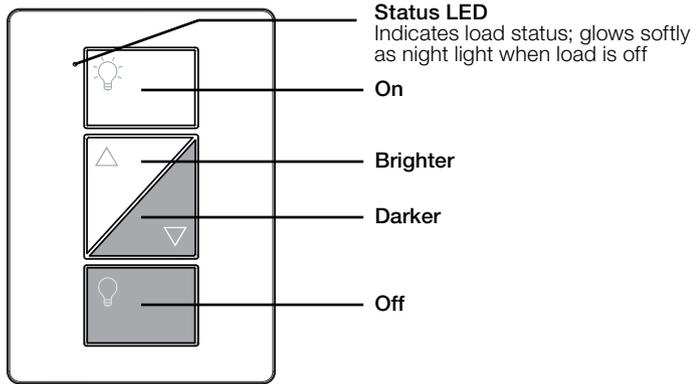


ELV+ Dimmer and In-Wall Dimmer



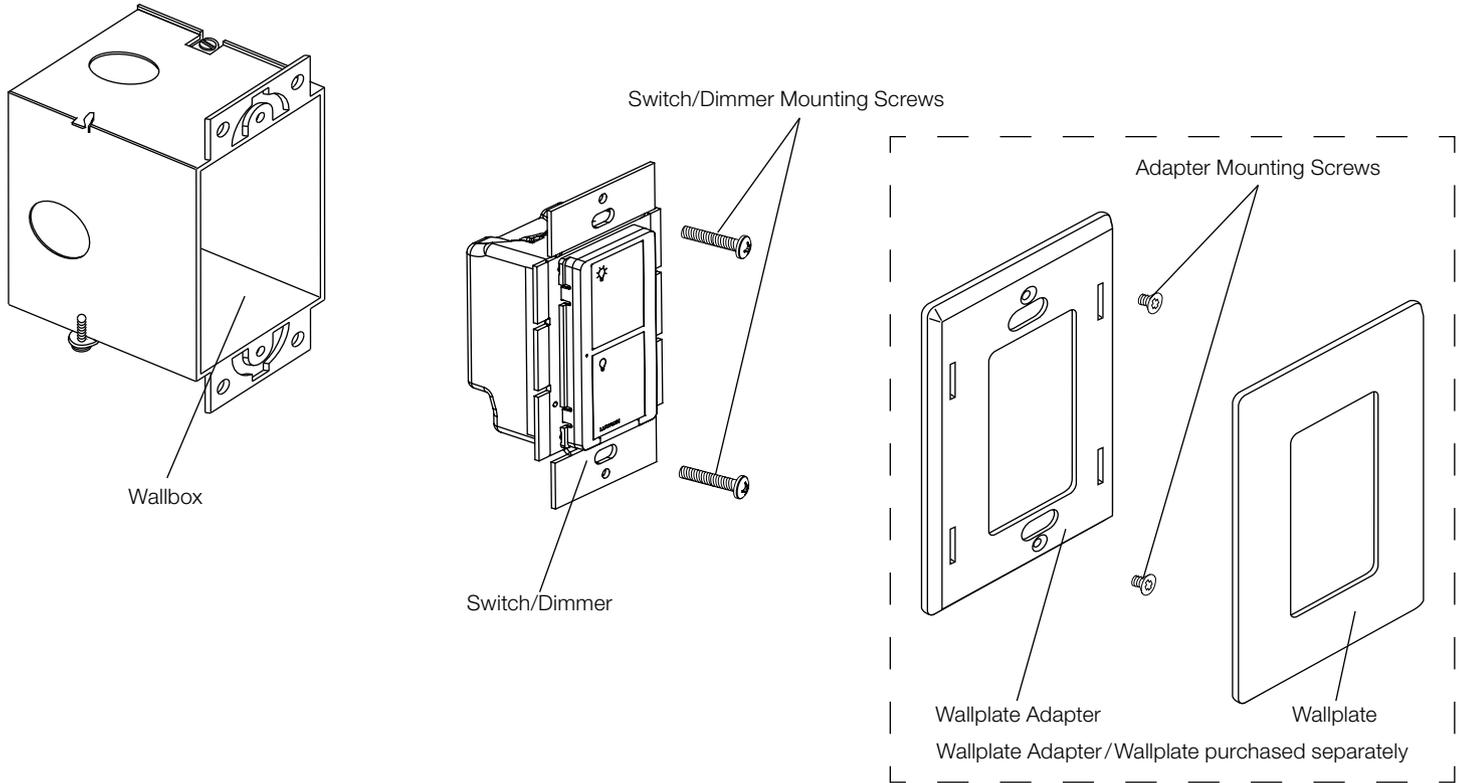
**FASS™ — Front Accessible Service Switch**  
**Important Notice:** To service load, remove power by pulling out the FASS™ as far as possible. To restore power after servicing load, push the FASS™ back in completely.

Plug-In Dimmer



<p>Job Name:</p> <p>Job Number:</p>	<p>Model Numbers:</p>
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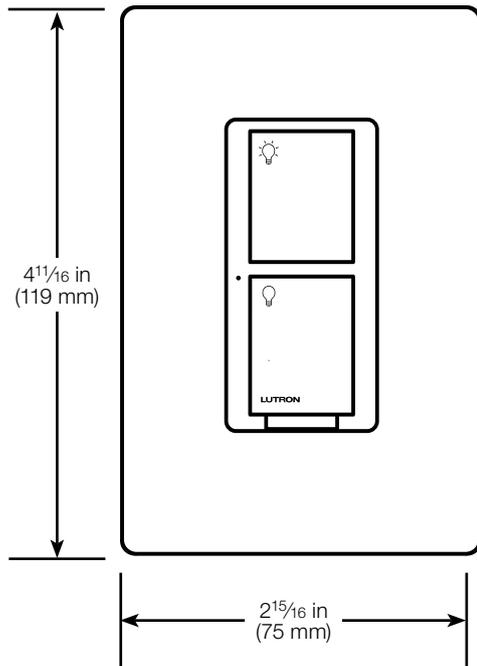
# Mounting



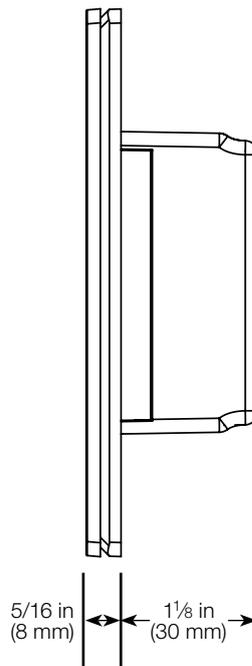
Job Name:	Model Numbers:
Job Number:	

## Dimensions In-Wall Switches and Dimmers

Front View

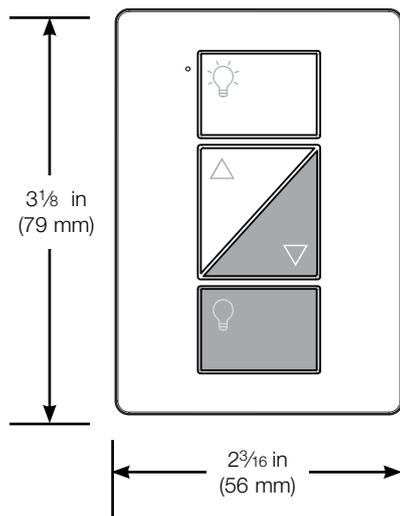


Side View

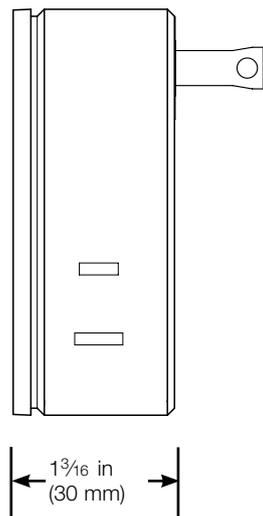


## Plug-In Dimmer

Front View



Side View

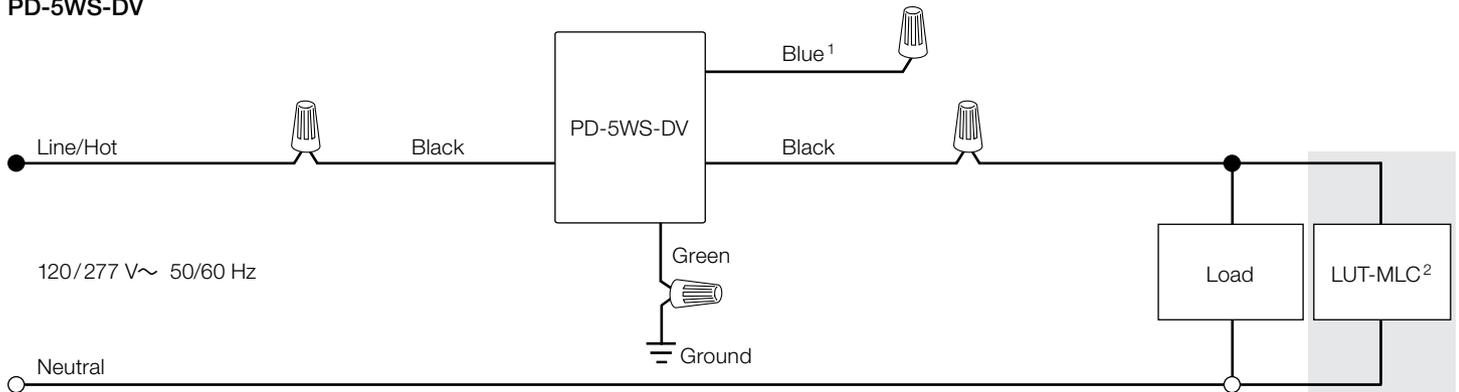


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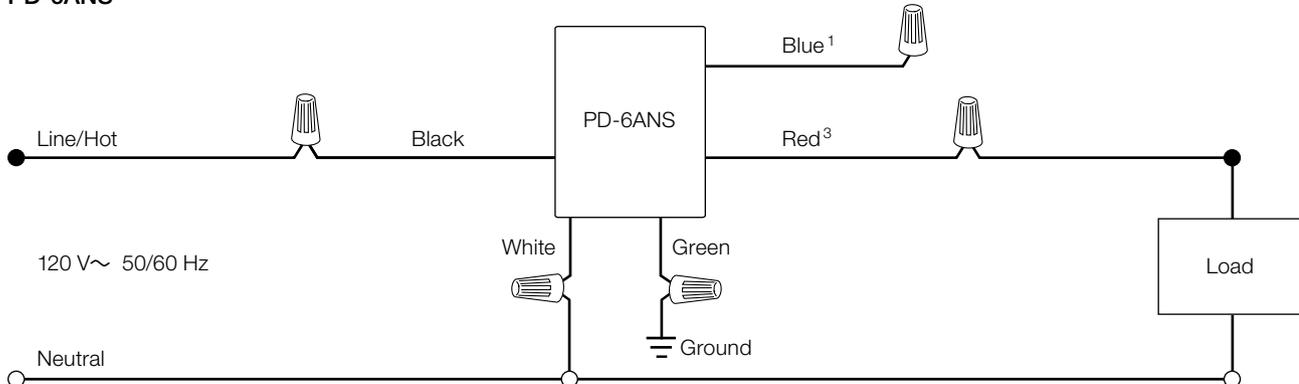
# Wiring Diagrams - Switches

## Single Location Installation

### PD-5WS-DV



### PD-6ANS



<sup>1</sup> When using controls without a mechanical 3-way switch, cap the blue terminal. **Do not** connect the blue wire to any other wiring or to ground.

<sup>2</sup> A LUT-MLC ensures proper function when LED, fluorescent, or ELV loads are used. Install the LUT-MLC inside a load fixture or in a separate junction box within the circuit.

<sup>3</sup> The red wire must be connected to the load and the black wire must be connected to Line/Hot. The switch will not work if the wires are reversed.

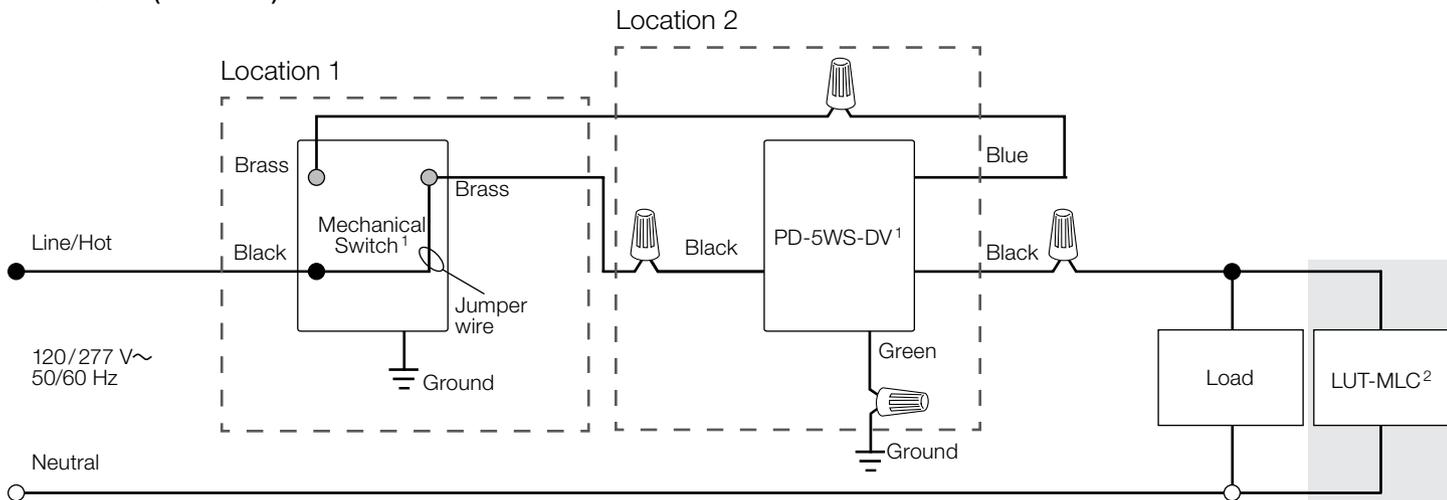
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Job Name:	Model Numbers:
Job Number:	

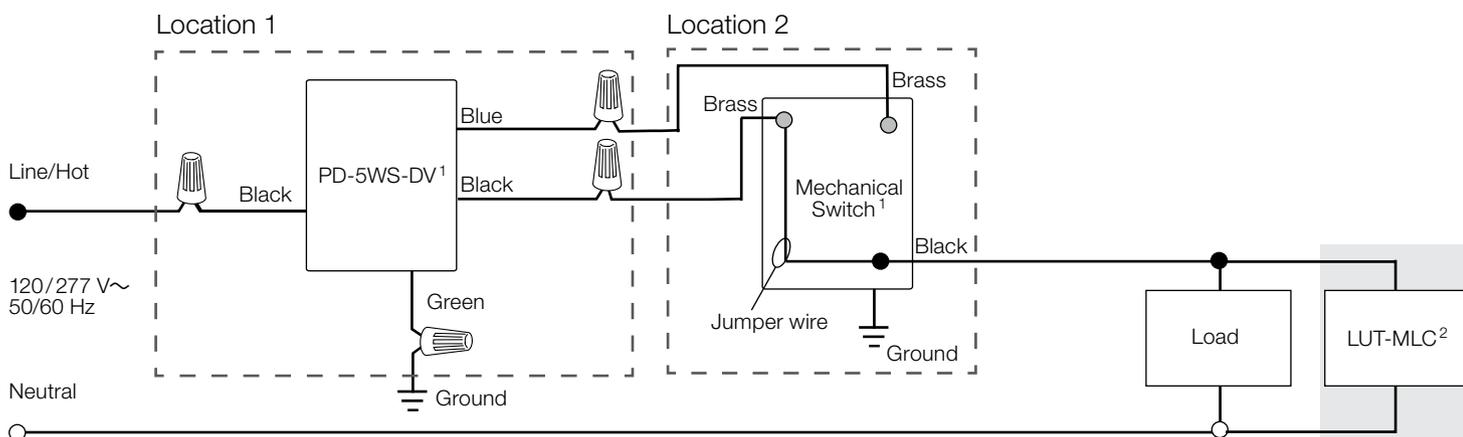
### Wiring Diagrams - Switches (cont.) 3-Way Installation (with mechanical switch)

Option 1

#### PD-5WS-DV (Load-side)



#### PD-5WS-DV (Line-side)



<sup>1</sup> Location of Caséta® Wireless In-Wall Switch and mechanical switch may be reversed.

<sup>2</sup> A LUT-MLC ensures proper function when LED, fluorescent, or ELV loads are used. Install the LUT-MLC inside a load fixture or in a separate junction box within the circuit.

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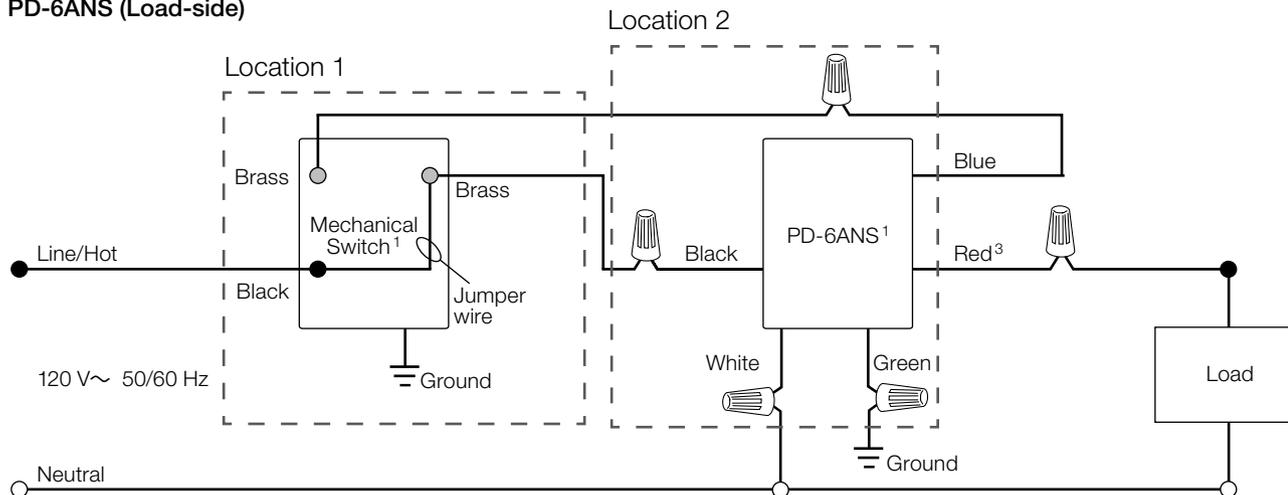
Job Name:	Model Numbers:
Job Number:	

# Wiring Diagrams - Switches (cont.)

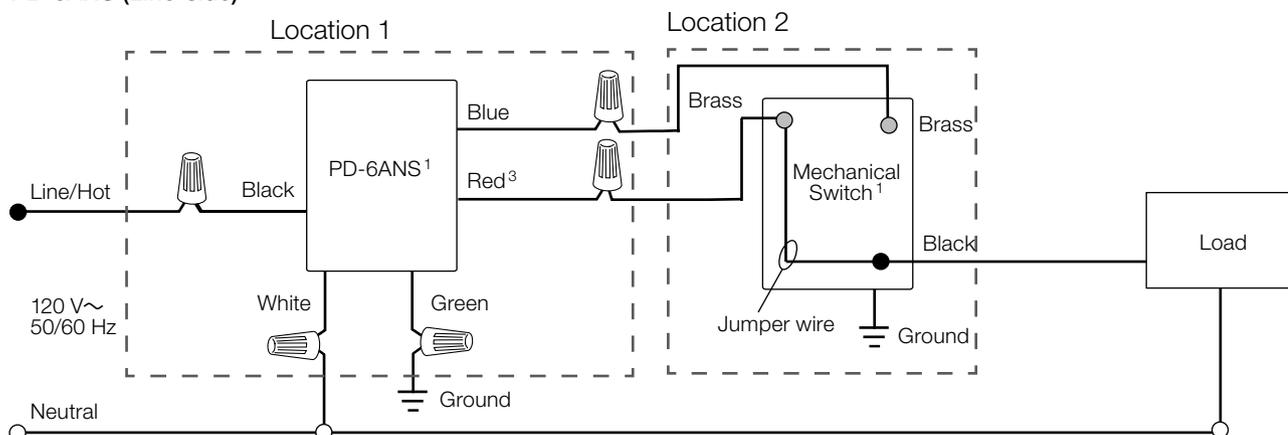
## 3-Way Installation (with mechanical switch)

Option 1 (cont.)

### PD-6ANS (Load-side)



### PD-6ANS (Line-side)



<sup>1</sup> Location of Caséta® Wireless In-Wall Switch and mechanical switch may be reversed.

<sup>2</sup> A LUT-MLC ensures proper function when LED, fluorescent, or ELV loads are used. Install the LUT-MLC inside a load fixture or in a separate junction box within the circuit.

<sup>3</sup> The red wire must be connected to the load and the black wire must be connected to Line/Hot. The switch will not work if the wires are reversed.

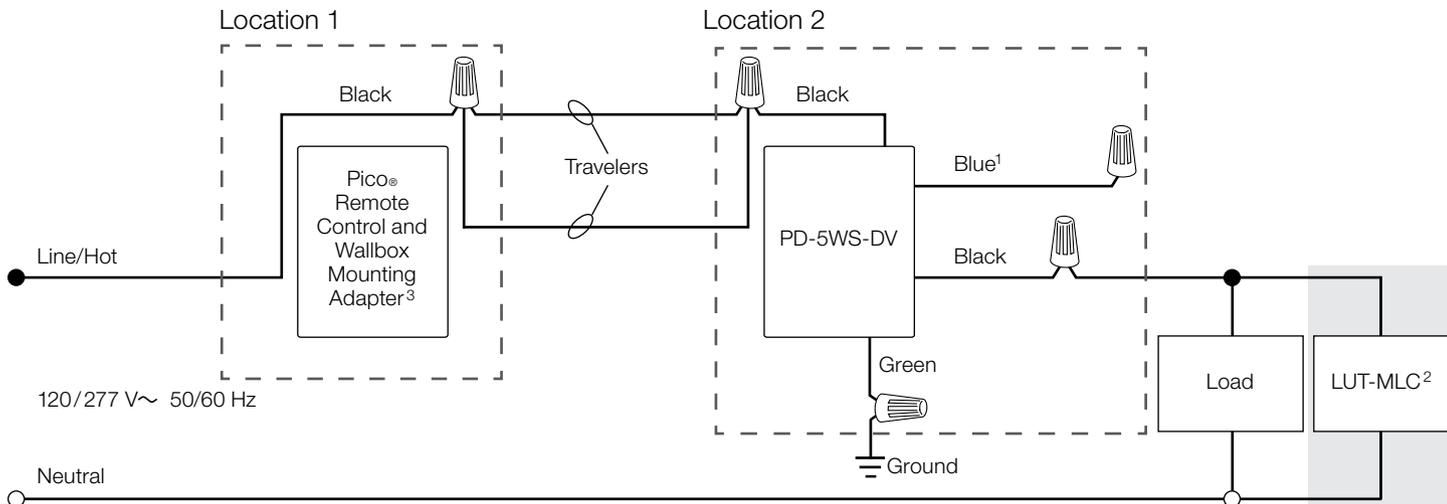
Job Name:	Model Numbers:
Job Number:	

## Wiring Diagrams - Switches (cont.)

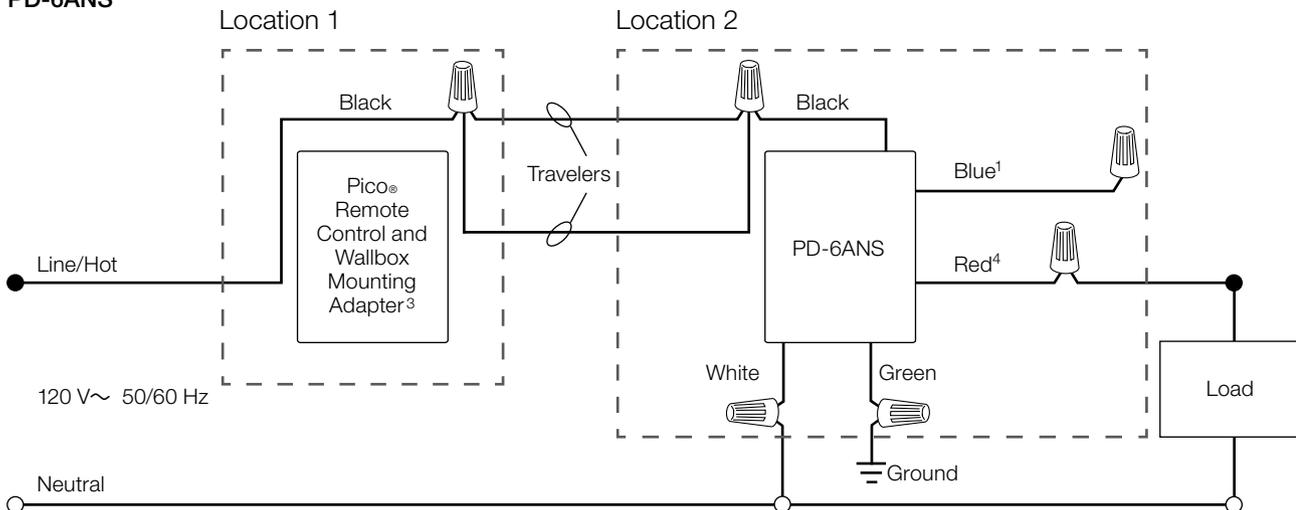
### 3-Way Installation (with Pico® remote controls)

Option 2: PJ2-2B-xx and wallbox mounting adapters (PICO-WBX-ADAPT)

#### PD-5WS-DV



#### PD-6ANS



- <sup>1</sup> When using controls without mechanical 3-way switch, cap the blue terminal. **Do not** connect the blue wire to any other wiring or to ground.
- <sup>2</sup> A LUT-MLC ensures proper function when LED, fluorescent, or ELV loads are used. Install the LUT-MLC inside a load fixture or in a separate junction box within the circuit.
- <sup>3</sup> The mechanical switch will need to be removed so the Pico® Remote Control can be installed.
- <sup>4</sup> The red wire must be connected to the load and the black wire must be connected to Line/Hot. The switch will not work if the wires are reversed.

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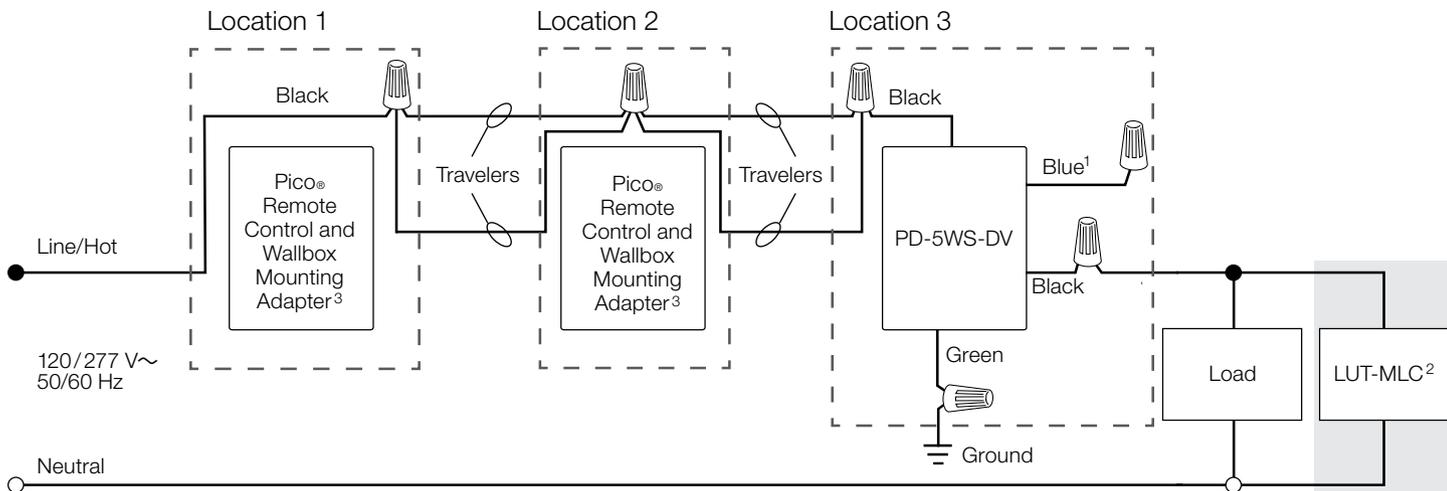
Job Name:	Model Numbers:
Job Number:	

## Wiring Diagrams - Switches (cont.)

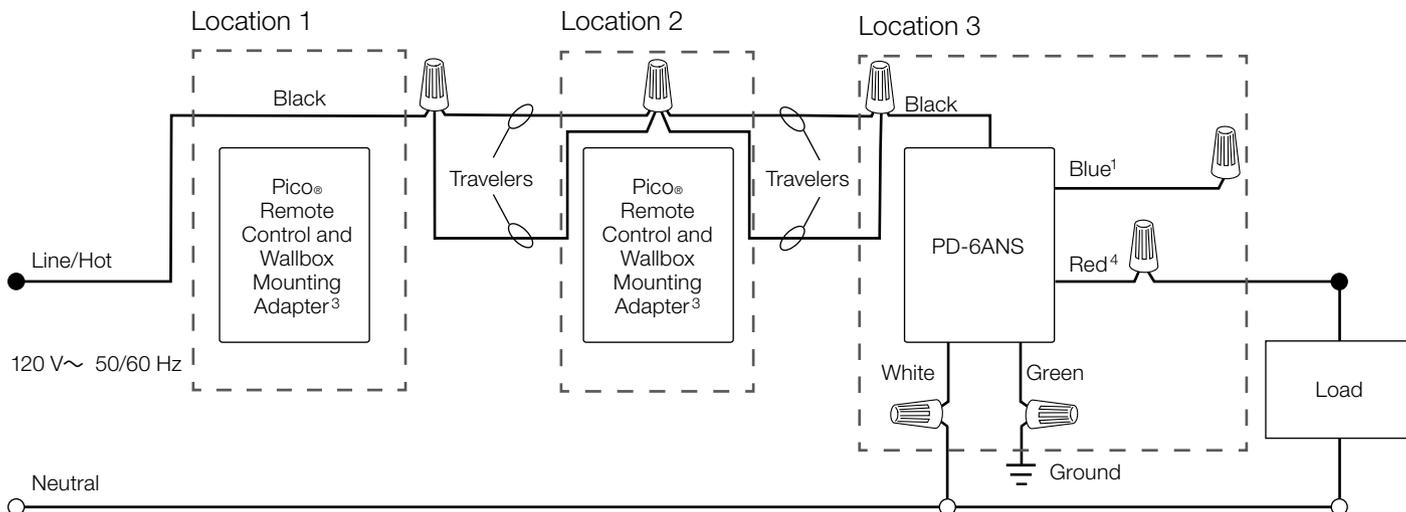
### Multi-location Installation (3 or more switches control the load)

With Pico® remote controls (PJ2-2B-xx) and wallbox mounting adapters (PICO-WBX-ADAPT)

#### PD-5WS-DV



#### PD-6ANS



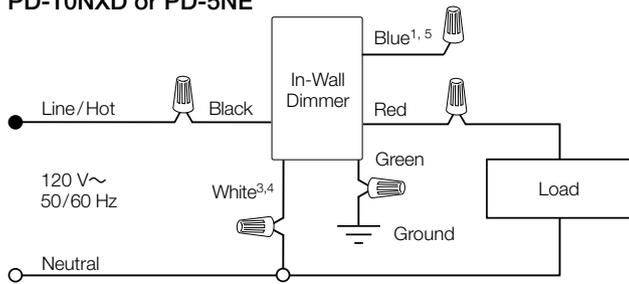
- <sup>1</sup> When using controls without mechanical 3-way switch, cap the blue terminal. **Do not** connect the blue wire to any other wiring or to ground.
- <sup>2</sup> A LUT-MLC ensures proper function when LED, fluorescent, or ELV loads are used. Install the LUT-MLC inside a load fixture or in a separate junction box within the circuit.
- <sup>3</sup> The mechanical switch will need to be removed so the Pico® Remote Control can be installed.
- <sup>4</sup> The red wire must be connected to the load and the black wire must be connected to Line/Hot. The switch will not work if the wires are reversed.

Job Name:	Model Numbers:
Job Number:	

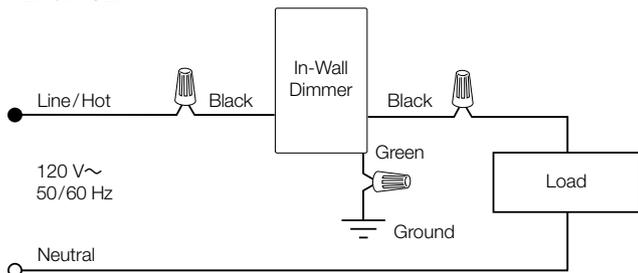
# Wiring Diagrams - Dimmers

## Single Location Installation

### PD-10NXD or PD-5NE



### PD-6WCL



<sup>1</sup> When using controls without mechanical 3-way switch, cap the blue terminal. **Do not** connect the blue wire to any other wiring or to ground.

<sup>2</sup> Location of Caséta® Wireless In-Wall Dimmer PRO and mechanical switch may be reversed.

<sup>3</sup> For PD-10NXD only, neutral connection optional except for MLV loads, LED drivers, and power modules (PHPM-PA, PHPM-3F, and GRX-TV).

<sup>4</sup> For PD-5NE, neutral is required.

<sup>5</sup> Blue wire is only present on the PD-10NXD model.

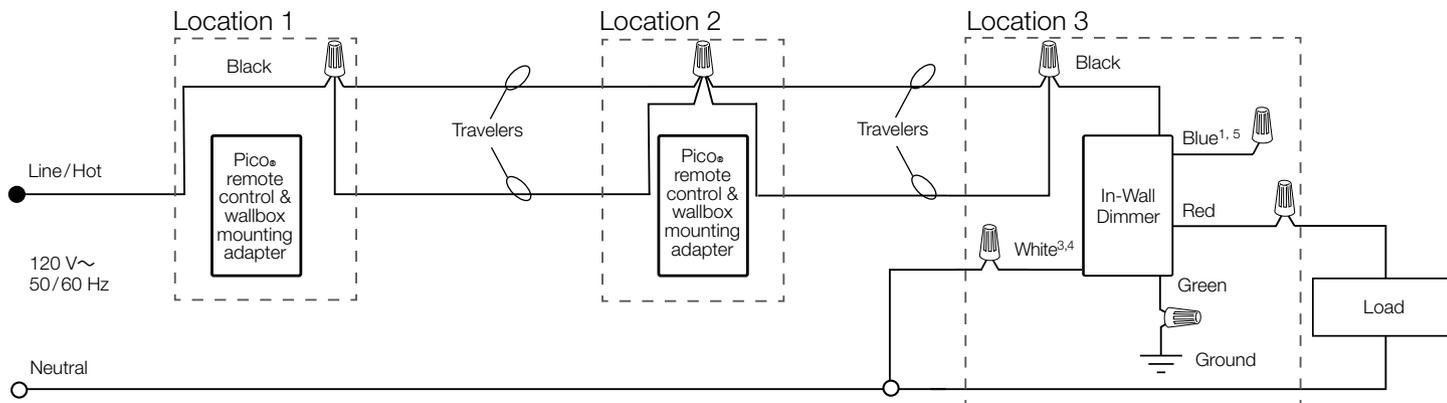
<p><b>Job Name:</b></p>	<p><b>Model Numbers:</b></p>
<p><b>Job Number:</b></p>	

# Wiring Diagrams - Dimmers (cont.)

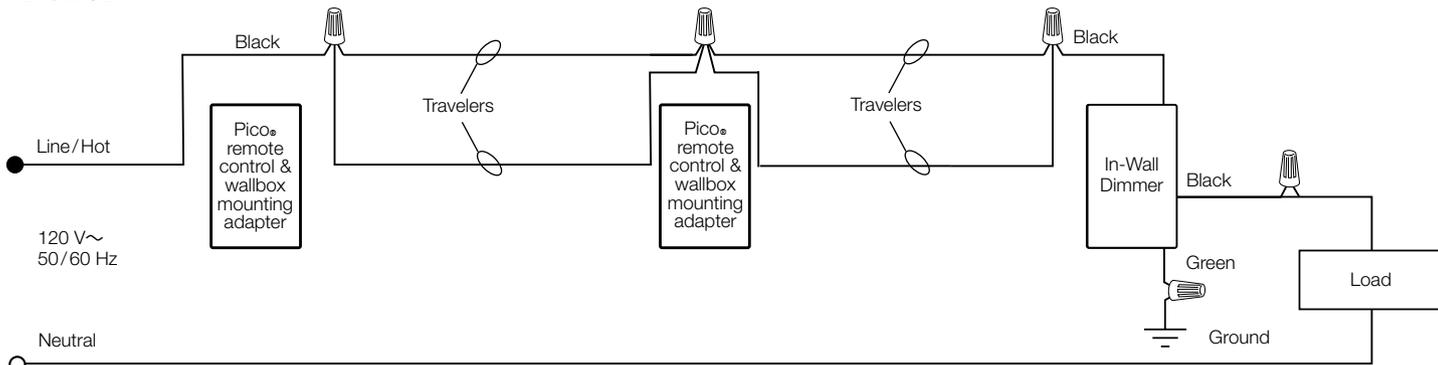
## Multi-Location Installation

With Pico® remote controls (PJ2-XX-XX) and wallbox mounting adapters (PICO-WBX-ADAPT)

### PD-10NXD and PD-5NE



### PD-6WCL



- <sup>1</sup> When using controls without mechanical 3-way switch, cap the blue terminal. **Do not** connect the blue wire to any other wiring or to ground.
- <sup>2</sup> Location of Caséta® Wireless In-Wall Dimmer PRO and mechanical switch may be reversed.
- <sup>3</sup> For PD-10NXD only, neutral connection optional except for MLV loads, LED drivers, and power modules (PHPM-PA, PHPM-3F, and GRX-TVI).
- <sup>4</sup> For PD-5NE, neutral is required.
- <sup>5</sup> Blue wire is only present on the PD-10NXD model.

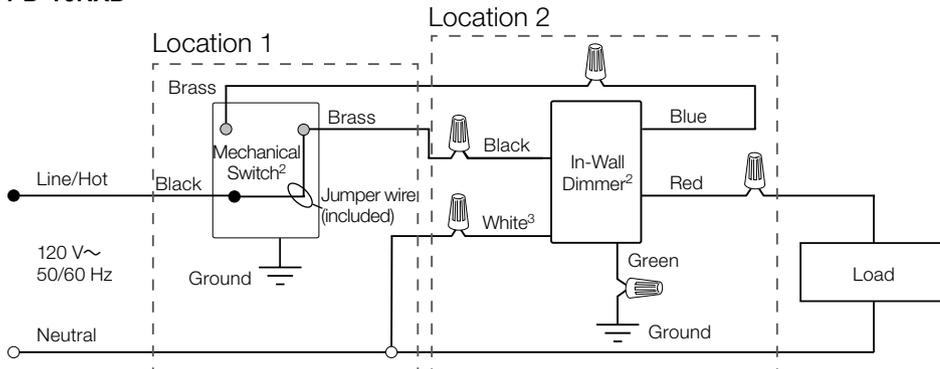
Job Name:	Model Numbers:
Job Number:	

# Wiring Diagrams - Dimmers (cont.)

## 3-Way Installation

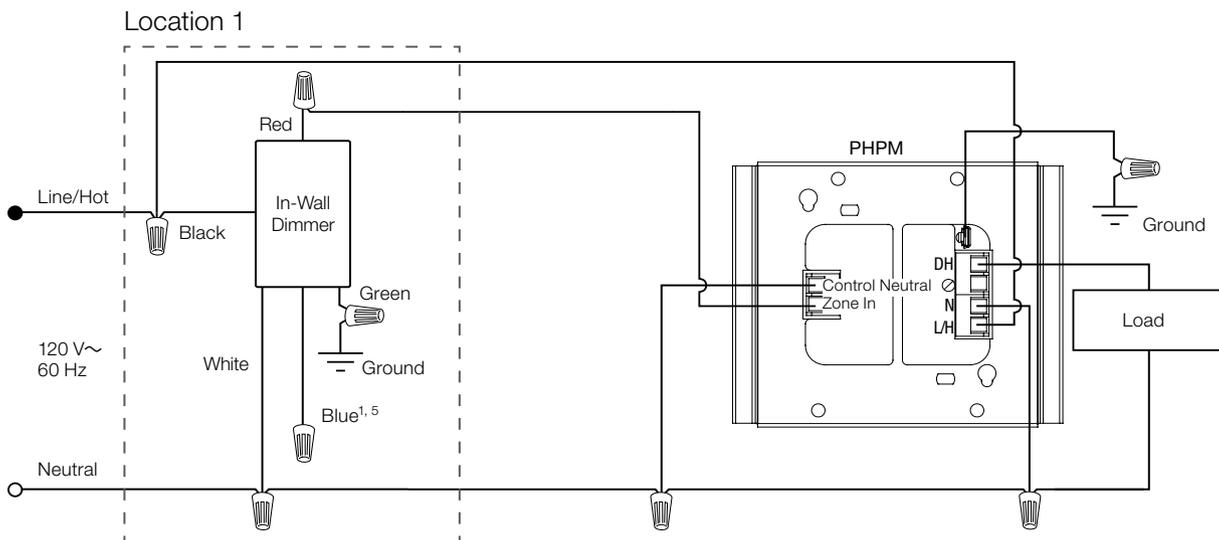
With mechanical switch

PD-10NXD



## Installation with PHPM - Neutral required<sup>4</sup>

PD-10NXD and PD-5NE



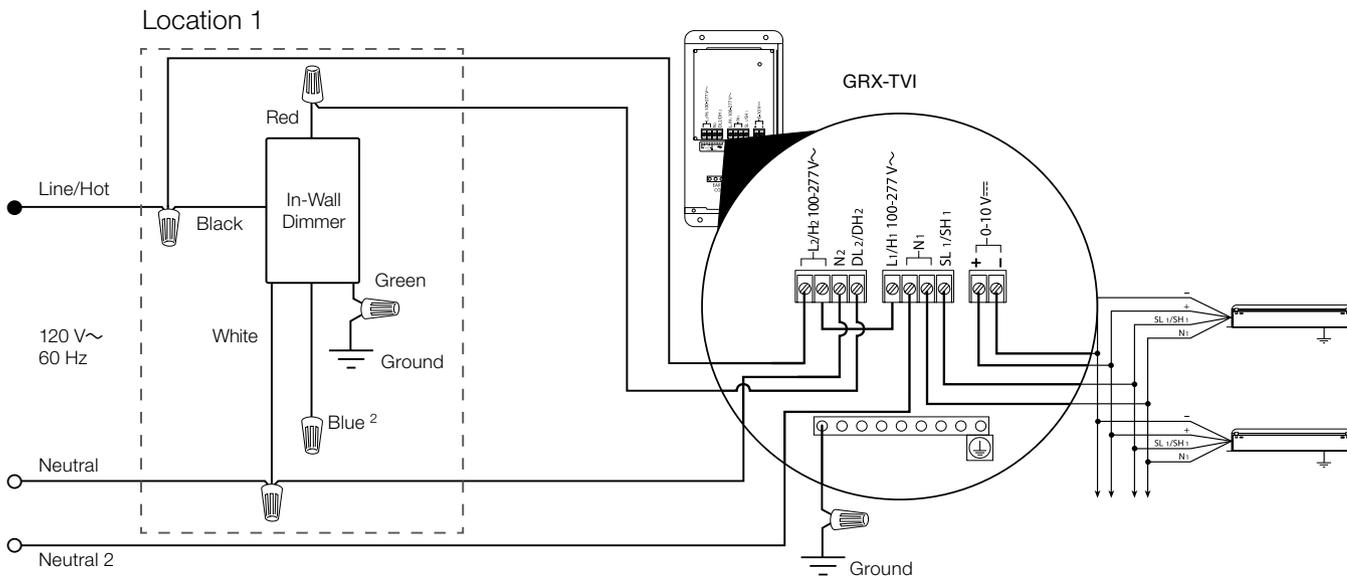
<sup>1</sup> When using controls without mechanical 3-way switch, cap the blue terminal. **Do not** connect the blue wire to any other wiring or to ground.  
<sup>2</sup> Location of In-Wall Dimmer and mechanical switch may be reversed.  
<sup>3</sup> Neutral connection optional except for MLV loads, LED drivers, and power modules (PHPM-PA, PHPM-3F, and GRX-TVI).  
<sup>4</sup> See Lutron® P/Ns 369356 and 369355 for additional wiring diagrams.  
<sup>5</sup> Blue wire is only present on the PD-10NXD model.

Job Name:	Model Numbers:
Job Number:	

# Wiring Diagrams - Dimmers (cont.)

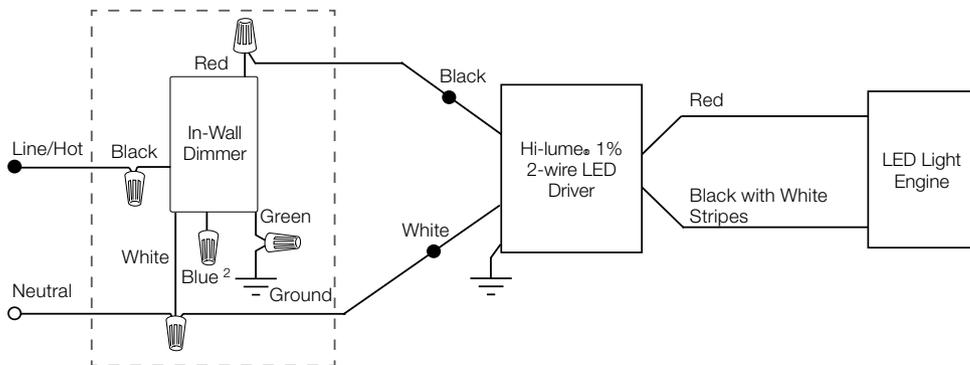
## Installation with GRX-TVI - Neutral required<sup>1</sup>

PD-10NXD and PD-5NE



## Installation with Hi-lume® 1% 2-wire LED Drivers - Neutral required

PD-10NXD and PD-5NE



**Note:** For more information on Hi-lume® 1% 2-wire LED Drivers, see [www.lutron.com](http://www.lutron.com)

<sup>1</sup> See Lutron® P/N 369247 for additional wiring diagrams.

<sup>2</sup> Blue wire is only present on the PD-10NXD model.

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

## Colors and Finishes

### Gloss Finishes



White  
WH



Black  
BL



Ivory  
IV



Light Almond  
LA

Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.

Job Name:  Job Number:	Model Numbers:
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