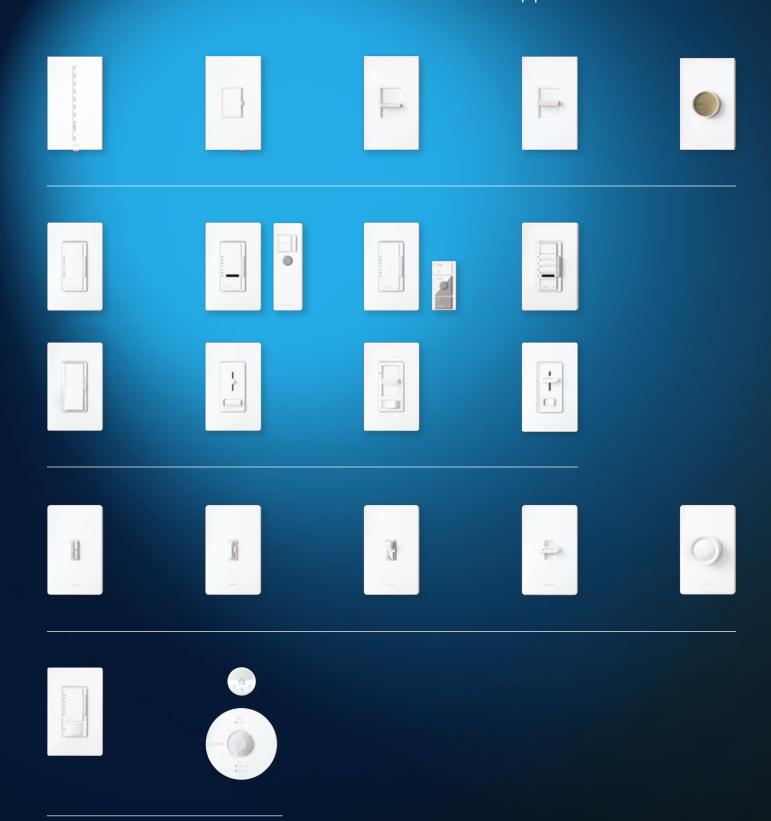
## **Volume 1: Basic devices and single-space systems**

Specification guide to wallbox dimmers, switches, sensors and accessories for commercial and residential applications







## **Volume 1: Basic devices and single-space systems**

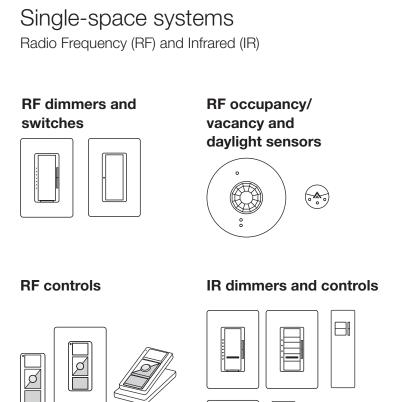
Lutron products for every application:

- · Residential or commercial
- Retrofit, renovation or new construction
- In this guide: basic devices and single-space systems for North and South America (120 V, 277 V and 347 V)

Solutions available for applications worldwide: consult www.lutron.com/international

# 

Basic devices



#### Table of contents

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14 Vierti<sub>®</sub>

#### Architectural wallplate opening

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## Other volumes (coming 2010)

#### Small area and larger room systems

Integrated solutions for small areas or larger spaces

#### Multiple room systems

Integrated solutions for multiple rooms or an entire floor

#### Entire home, building or campus systems

Integrated solutions for whole home, building or campus of buildings

#### **Shading systems**

Shade and drapery systems that can function as a standalone shading system, or can be integrated within the above systems

#### Ballasts, drivers and fixtures

Fluorescent dimming ballasts, LED drivers and complete dimmable lighting fixtures

## **Lutron | Scalable light management solutions**

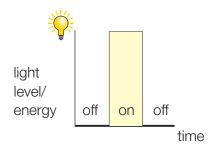
## Basic energy-saving devices

#### **Switches**





On = 100% light, 100% energy Off = 0% light, 0% energy

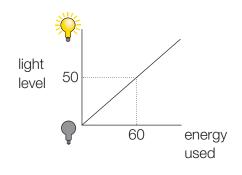


#### **Dimmers**





All Lutron dimmers save energy. Light level is proportional to energy use. 50% dimmed uses only 60% of the energy—saves 40%.



#### Occupancy/vacancy sensors





Occupancy/vacancy sensors guarantee energy savings by turning lights off when rooms are unoccupied.





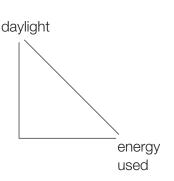
occupied on

unoccupied off

#### **Daylight sensors**



As daylight increases in the room, electrical light energy is reduced.



## System solutions

#### 1. Single-space systems

- Tie multiple dimmers and switches together with wireless sensors and remote controls
- Perfect for retrofit, renovation or new construction

#### Commercial



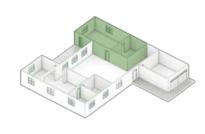
#### Residential



#### 2. Small areas and larger rooms

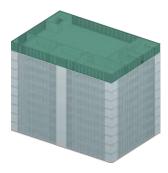
- Add integrated control of window shades and tie in with A/V or other building systems
- Wired or wireless communication for retrofit, renovation or new construction

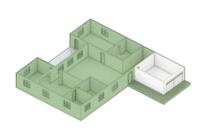




#### 3. Multiple rooms

- Expand control across multiple rooms even an entire floor
- Wireless components and digital devices provide for easy reconfiguration without re-wiring

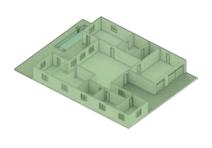




#### 4. Entire home, building or campus

- Manage control of daylight and electric light on any scale
- Homeowners and facility managers can maximize energy efficiency, comfort, convenience and productivity
- Display and optimize light and energy use across the entire system





## **New energy-saving products**

#### **Dimmers and switches**



#### eco-minder<sub>TM</sub> dimmer

LED lights demonstrate 15% or more energy savings



#### eco-dim<sub>TM</sub> dimmer

quarantees at least 15% energy savings compared to a standard switch



#### eco-timer switch

includes countdown timer with 30 minute maximum (no "always-on"), automatically turns off fans or lights

#### **Sensors**



#### Radio Powr Savr™

ceiling mounted wireless occupancy/vacancy sensor eliminates power pack and wiring expense



#### Radio Powr Savrm

ceiling mounted wireless daylight sensor





Maestro® digital dimmer or switch with integrated occupancy/vacancy sensor

#### **Wireless single-space controls**



Maestro Wireless® plug-in modules for plug-in lamp and appliance loads







#### **Picotm Wireless controls** compatible with all Maestro Wireless radio frequency (RF) devices





Maestro Wireless 3-wire fluorescent dimmers and 2-wire switches

## Four steps to selecting your control | Step 1

## 1. Select your control by style

Color options and available models are detailed in each product family section.

- Multi-location dimming—see pg. 8
- Occupancy/vacancy sensor—see pg. 144
- Daylight sensor—see pg. 146

#### **New Architectural**



Vierti®

M Touch slider pg. 14

#### **Architectural**



**V**areo®

Big switch little slider pg. 20



Nova T☆® Slider

pg. 26



Nova® Slider pg. 34



Centurion® Rotate pg. 42

#### **Designer**



Maestro<sub>®</sub>

M Preset rocker\* pg. 46



**Spacer System®** 

M Preset rocker\* pg. 76



Maestro IR®

M Preset rocker\* pg. 60



**Diva**®

Big switch little slider pg. 86



**Maestro Wireless®** 

M Preset rocker\* pg. 68



Lyneo® Lx
Preset slider

pg. 94



MeadowLark®

Preset slider pg. 100



Skylark®

Preset slider pg. 104

#### **Traditional**



**Abella**®

M Preset rocker\* pg. 114



Ceana<sub>®</sub>

Preset slider pg. 120



Ariadni®\*\*

Big switch little slider pg. 124



Glyder® Slider pg. 130

0

Rotary Rotate pg. 134

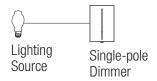
\*Rocker is also referred to as raise/lower \*\*Also known as TogglerTM

## 2. Consider the required number of control locations

The number of desired dimming and switching control locations determines the control types and quantities required.

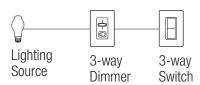
#### a. Control lights from one location only

Single-pole dimmer required (3-way and multi-location dimmers may also be used).



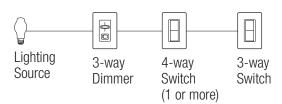
#### b. Control lights from two locations

Dimming from one location, switching from second location. 3-way dimmer required.



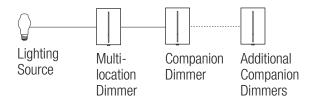
## c. Control lights from three or more locations

Dimming from one location, switching from other locations, 3-way dimmer required.



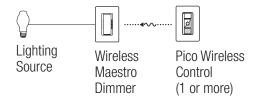
#### d. Multi-location dimming

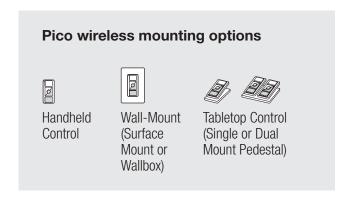
True dimming from all locations. Multi-location electronic dimmer and companion dimmer(s) required. Indicated by **(M)** in selection tables, pg. 8–9, 10–11.



#### e. Wireless multi-location dimming

True dimming from all locations, Maestro Wireless® and Pico™ Wireless control(s) required.





## 3. Select your model by lighting load type and quantity

Lutron dimmers are designed, tested and UL listed for specific load types up to a maximum capacity. To select a specific dimmer by load type, see pg. 8.

#### Incandescent/halogen lighting (INC)

Excellent color rendering and can dim to off.

Loads are quantified in Watts (W).

Incandescent/halogen dimmers required. ELV or MLV dimmers can also be used to dim incandescent/halogen.

#### Electronic low-voltage lighting (ELV)

Track and recessed lights typically use electronic low-voltage transformers and halogen low-voltage lamps.

Loads are quantified in Watts (W).

ELV dimmers are required.

#### Magnetic low-voltage lighting (MLV)

Track and recessed lights can also use magnetic low-voltage transformers and halogen low-voltage lamps.

Loads are quantified in Volt-Ampere (VA), combining the total lamp wattage with 20% additional load due to heat losses in the MLV transformer.

MLV dimmers are required.

### Neon-cold cathode lighting (NCC)

Dimming NCC requires a dimmable electronic or magnetic step-up transformer and a matching dimmer.

NCC loads are quantified in Watts (W) or Volt-Ampere (VA).

NCC is typically dimmable using a Lutron® 3-wire fluorescent dimmer with a power interface. See pg. 174 for more information on lighting load interfaces.

#### **☐** Fluorescent lighting (FL)

Linear, U-bent, twin-tube and 4-pin compact fluorescent lamps are dimmable when paired with the appropriate electronic dimming ballast.

Fluorescent lamp and ballast loads are quantified in Amps (A) and are determined by the specific type and number of ballasts being used.

Dimmers must also match the control signal required by the ballast (i.e., 3-wire, 2-wire or 0-10 V).

For information on Lutron dimming ballasts, see www.lutron.com/ballasts

For dimmable CFL options, see pg. 11.

## Light Emitting Diode lighting (LED)

LED light sources are composed of the LED array (lamp module) and a driver which powers the array.

Today, there is no common industry standard for rating and control of LED sources.

Lutron's recommended approach to control LED lamp modules is the use of a Lutron Hi-lume® LED driver and a 3-wire fluorescent dimmer.

Other Lutron approved lamp module/driver combinations can be dimmed with specific Lutron controls.

See www.lutron.com/LED for a list of approved fixtures with Lutron drivers and other approved fixture/control combinations.

- For further information on selecting the right lamp type, go to www.lutron.com/bulb.
- · Load capacity must be reduced if controls are ganged. For further information on derating, see pg. 170.

## Four steps to selecting your control | Step 3 continued

## 3. Select your control by load type

## Dimmer capabilities and interface requirements

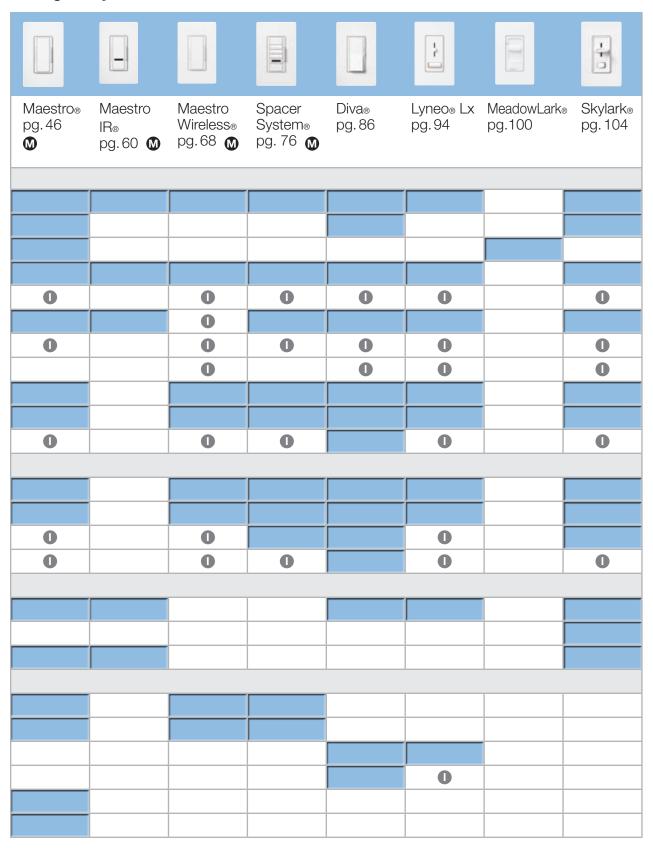
- Compatible dimmer (no interface)
- Multi-location—true dimming from each location
- Lighting load interface solutions may be available for additional load types, see pg. 174 for more details

#### **New Architectural and Architectural style**



imers	Voltage					
Incandescent/halogen	120V					
eco-dim <sub>®</sub> incandescent/halogen	120V					
eco-minder™ incandescent/halogen	120V					
NA	120V					
Magnetic low-voltage	277 V		0		0	
	120V		0			
Electronic low-voltage	277 V		0	0	0	
Neon/cold cathode	120V		0	0		
LED with 18 hours LED discou	120V					
LED WITH HI-IUME® LED driver	277 V		0			
LED with 0-10V LED driver	120/277 V	0	0			
mers for fluorescent ballasts						
3-wire: Hi-lume®, Compact SE™	120V					
Hi-lume <sub>®</sub> 3D, EcoSystem <sub>®</sub> , Eco-10 <sub>®</sub>	277 V		0			
2-wire: Tu-Wire®	120V		0			
0-10 VDC control	120/277 V	0	0			
controls						
Quiet	120V					
Fully variable	120V					
Fan/light	120V					
tches and timers						
Electronic switch	120V					
Electronic switch	277 V	0	0			
Machanical awitch	120V					
ivieci idi ilgai Switch	277 V					
Countdown timer switch	120V					
	Incandescent/halogen eco-dim® incandescent/halogen eco-minder™ incandescent/halogen  Magnetic low-voltage  Electronic low-voltage  Neon/cold cathode  LED with Hi-lume® LED driver  LED with 0-10 V LED driver  Immers for fluorescent ballasts  3-wire: Hi-lume®, Compact SE™ Hi-lume® 3D, EcoSystem®, Eco-10®  2-wire: Tu-Wire®  0-10 VDC control  controls  Quiet  Fully variable  Fan/light  tches and timers  Electronic switch  Mechanical switch	Incandescent/halogen   120	Incandescent/halogen   120	Incandescent/halogen	Incandescent/halogen	Incandescent/halogen   120V

#### **Designer style**



## Four steps to selecting your control | Step 3 continued

## 3. Select your control by load type

## Dimmer capabilities and interface requirements

- Compatible dimmer (no interface)
- Multi-location—true dimming from each location
- Lighting load interface solutions may be available for additional load types, see pg. 174 for more details

#### **Traditional style**



Dim	imers	Voltage			
$\Diamond$	Incandescent/halogen	120V			
	eco-dim <sub>®</sub> incandescent/halogen	120V			
	eco-minder™ incandescent/halogen	120V			
		120V			
Ş	Magnetic low-voltage	277 V	,		D
	FI	120V		(	)
$\Box$	Electronic low-voltage	277 V		0	)
Q	Neon/cold cathode	120V		0	)
600	155	120V			
	LED with Hi-lume® LED driver	277 V			
<b>&amp;</b>	LED with 0-10V LED driver	120/277 V		0	
Dim	mers for fluorescent ballasts				
	3-wire: Hi-lume®, Compact SEтм	120V			
	Hi-lume® 3D, EcoSystem®, Eco-10®	277 V			
<b>□</b>	2-wire: Tu-Wire®	120V		0	
<b>□</b>	0-10 VDC control	120/277 V		0	
Fan	controls				
**	Quiet	120V			
K.	Fully variable	120V			
*	Fan/light	120V			
Swi	tches and timers				
	Electronic awitch	120V			
	Electronic switch	277 V	0		
	Mechanical switch	120V			
	iviechanicai switch	277 V			
	Countdown timer switch	120V			
	eco-timer switch	120V			

## Four steps to selecting your control | Step 4

## Maestro® wallbox Radio Powr Savr occupancy/vacancy wireless sensors† sensors Sensor/ Sensor/ Occupancy/ Daylight dimmer switch vacancy sensor pg. 140 pg. 140 sensor pg. 144 pg. 146 0 0 0 0 0 0 0 0 0 0 0 0

## 4. Additional selection considerations

#### Ganging and derating

Ganging is the mounting of two or more dimmers or accessory devices side-by-side under a multi-gang wallplate. When you combine two or more dimmers, you may need to derate the power rating and remove a portion of the dimmer beneath the wallplate. See pg.170 for details.

#### **Lighting load interfaces**

To dim larger loads on a single dimmer, you can use a power interface. Interfaces require 3-wire dimmers and may require additional power feeds from distribution panels. **See pg.174 for details**.

## Screw-based Compact Fluorescent Lighting (CFL)

Screw-based CFL lamps offer energy efficiency and long life, but typically many of them do not dim.

CFL loads are quantified in Watts (W).

Dimmable to about 30% perceived light with similar energy savings.

Lutron offers dimmers designed specifically for Philips Energy Saver DIMMABLE CFL lamps, see Diva (pg. 86) and Skylark (pg. 104) families for available models.

To learn more about how Lutron products can save you energy, visit our web site, www.lutron.com/energy.

†Radio Powr Savr now works with Maestro Wireless® dimmers or switches as indicated \*LOS series available, see pg. 140

## Product information for basic devices and single-space systems

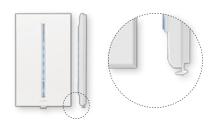
Product families are organized by wallplate opening style.

Within each family section are:

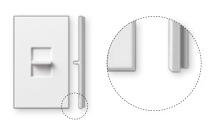
- Color options
- · Specification features
- · Lighting load type compatibility
- · Model numbers
- Coordinating accessories

Customize solutions that are right for you.

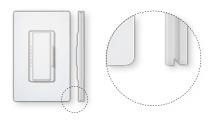
#### New Architectural wallplate opening



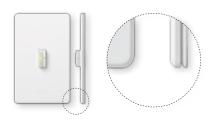
#### Architectural wallplate opening



#### Designer wallplate opening



#### Traditional wallplate opening



## Product family sections by wallplate opening style

#### New Architectural product families

pg. 14

- Exclusive New Architectural style opening with squared edges
- Coordinates with New Architectural wallplates and Architectural accessories
- Single-gang wallplate included with control

#### Architectural product families

pg. 20

- · Architectural style opening with squared edges
- Coordinates with Architectural wallplates and Architectural accessories
- · Single-gang wallplate included with control

#### Designer product families

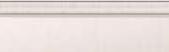
pg. 46

- Designer style opening with rounded edges to match Designer style controls
- · Coordinates with Claro®/Satin Colors® wallplates and accessories
- Controls fit standard Designer opening wallplates
- · Wallplates available separately

#### Traditional product families

pg. 114

- Traditional style opening with rounded edges to match standard toggle switches
- · Coordinates with Fassada® style wallplates and Claro/Satin Colors accessories
- Wallplates available separately

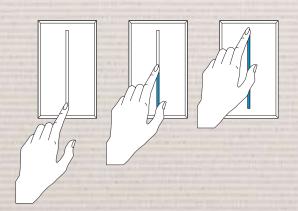


2.75 in (70 mm)



Shown actual size: Vierti dimmer in Black (BL) with White (WH) LED bar shown.

1-gang New Architectural wallplate in Satin Nickel (SN).



#### **Product family features**

- True multi-location dimming from each location
- Touch LED bar to adjust light to suit any activity
- · On/off touch switch returns light to your favorite level
- · Audible feedback confirms user touch
- LEDs indicate light level, even in a dark room
- Programming allows customized functions
- · Line frequency compensation maintains stable light levels, despite power line frequency and voltage variations
- Mechanical air-gap to disconnect load power
- · 100% factory tested
- Rugged components protect against damage due to line surges
- · Coordinating wallplate included with Architectural matte finish controls, metal wallplates only available separately
- Custom engraving and custom coloring available for wallplates, see pg. 155

#### **Control types**

Single-pole (one location)

Multi-location dimming (up to five locations)

### Direct load type compatibility

- Incandescent/halogen dimming
- Magnetic low-voltage lighting
- ☐ Electronic low-voltage lighting
- Fluorescent lighting
- LED lighting

## Load types requiring load interface

Lighting load interfaces may be applicable for some load type, voltage and capacity combinations. For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: VT-600-<u>W</u>-<u>GR</u>) Architectural matte finishes\*



GR

Gray



Blue

LED bar colors

White Green

Architectural metal finish wallplates\*\*

**TP** Taupe

IV

Ivory



<u>SI</u>

Sienna

- \*Coordinating wallplate included with Architectural matte controls.
- \*\*Metal finish wallplates only available separately and include black plastic trim/adapter, visible from side. Match with separate Black (BL) controls. For wallplate information, see pg. 148.

## Vierti<sub>®</sub> single-touch dimmers and switches

#### **Dimmers and switches**

#### **Single-touch dimmers**



- · Touch switch turns on/off
- · Touch LED bar to brighten and dim
- Audible feedback confirms the LED bar was touched
- Allows multi-location dimming with Vierti companion dimmers
- Dimmer advanced programming options are available

#### **Companion dimmers and switches**

#### **Companion dimmers**



- Use up to four companion dimmers with one Vierti multi-location dimmer
- Provides true dimming from each location
- Use standard 3-way wiring for easy installation

#### **Electronic switches**



- Touch switch turns on/off
- Audible feedback confirms the LED bar was touched
- For multi-location switching use Vierti companion switches
- Advanced programming options are available

#### **Companion switches**



- Use up to four companion switches with one Vierti multi-location switch
- Use standard 3-way wiring for easy installation

### Advanced programming features include:

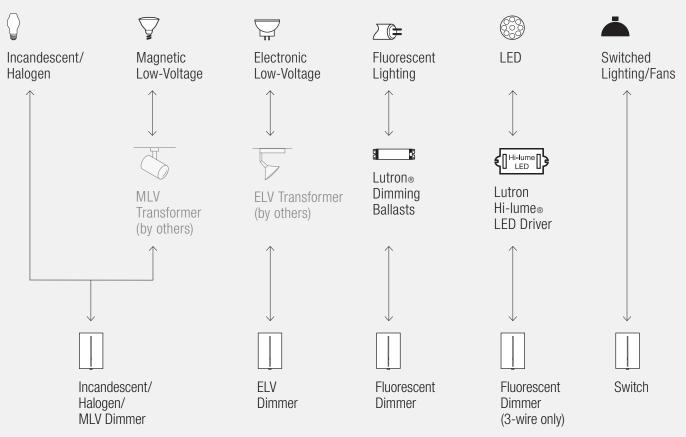


- Setting the high-end/low-end trims (dimmers only)
- Adjusting LED brightness (dimmers and switches)
- Adjusting fade on/fade off time (dimmers only)
- Audible feedback sound on/off (dimmers and switches)
- Delayed fade wait time (dimmers only)
- Locked preset lighting level (dimmers only)

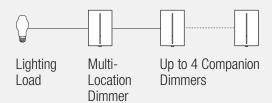
Vierti advanced programming manual (Application Note #205) is available at **www.lutron.com/applicationnotes**.

#### **Connections overview**

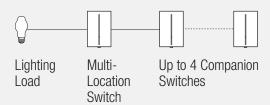
#### Load connections\*



#### **Control types** (for 2 or more locations) Dim from multiple-locations (up to 5)



#### Switch from multiple-locations (up to 5)



For more information on ballasts, visit **www.lutron.com/ballasts**. For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

### Incandescent/halogen and/or



## Single-touch dimmer

_	
Single-pole	VT-600- <u><b>D</b></u> 1- <u><b>AA</b>2</u>
120 V 600 W/VA	
Multi-location/single-pole	VT-600M- <u><b>D</b></u> 1- <u><b>AA</b>2</u>
120 V 600 W/VA	
Multi-location/single-pole	VT-1000M- <u><b>D</b></u> 1- <u><b>AA</b>2</u>
120V 1000W/VA	

The stated W (Watt) rating is the maximum incandescent lamp load. Ratings for MLV loads represent the maximum of the total lamp wattage plus MLV transformer loss (typically 20%).

#### Electronic low-voltage dimmers\*

#### Single-touch dimmer

Multi-location/single-pole	VTELV-600M- <b>D</b> 1- <b>AA</b> 2
120V 600W	

Only certain LED drivers are dimmable using an ELV dimmer, for more information visit www.lutron.com/LED.

### 

#### Single-touch dimmer

Multi-location/single-pole	VTF-6AM- <u><b>D</b></u> 1- <u><b>AA</b></u> 2
120/277V 6A	

For use with Hi-lume®, Hi-lume® Compact SE, Hi-lume® 3D, Eco-10®, EcoSystem® ballasts. Adjustable high-end and low-end trim.

#### Hi-lume LED drivers: 3-wire fluorescent dimmers\*

#### Single-touch dimmer

Multi-location/single-pole	VTF-6AM- <u><b>D</b></u> 1- <u><b>AA</b>2</u>
120/277V 6A	

Adjustable high-end and low-end trim.

Exclusively compatible with Hi-lume LED driver.

For more information on Hi-lume LED drivers, visit www.lutron.com/HilumeLED.

#### Switch and companion control model numbers

#### Switches\*

#### Single-touch electronic switch

Multi-location/single-pole	VT-S6AM- <u><b>D</b></u> 1- <u><b>AA</b></u> 2
120V 6A light or 3A fan	
Multi-location/single-pole	VT-S6AMUNV- <u>D</u> 1- <u>AA</u> 2
120V 6A light or 3A fan	
277V 6A light	

Rated for: incandescent/halogen, magnetic low-voltage, electronic low-voltage, non-dim fluorescent ballasts, general purpose fans and most non-dim LED drivers.

For multi-location switching, use with Vierti multi-location companion switches VT-AS- $D^1$ - $AA^2$ .

Not for use with mechanical 3-way or 4-way switches.

#### **Companion controls**

#### Single-touch companion dimmer

120/277 V	VT-AD- <b>D</b> 1- <b>AA</b> 2

No derating required if ganged.

#### Single-touch companion switch

120V	VT-AS- <u><b>D</b></u> 1- <u><b>AA</b></u> 2

No derating required if ganged.

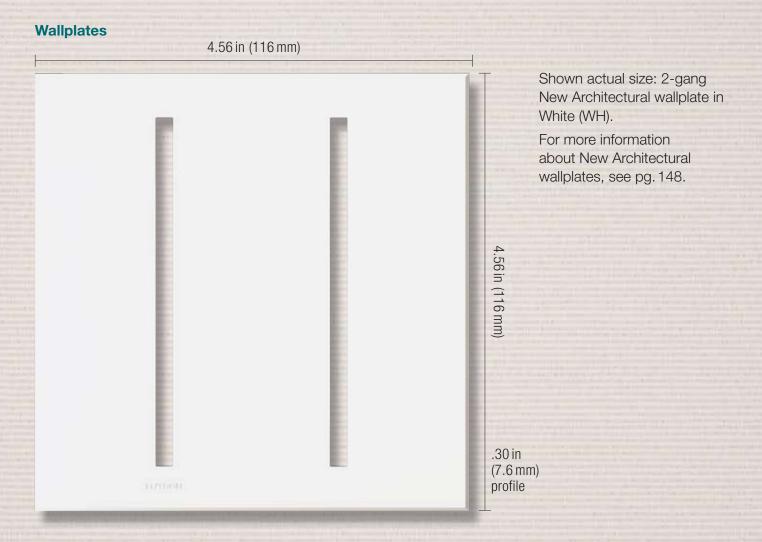
**D**<sup>1</sup>: LED bar color codes, see pg. 15

AA<sup>2</sup>: Architectural matte color codes, see pg. 15 (1-gang wallplate included)

For more information on ballasts, visit www.lutron.com/ballasts.

All models must be derated if ganged, unless otherwise noted, see pg. 170.

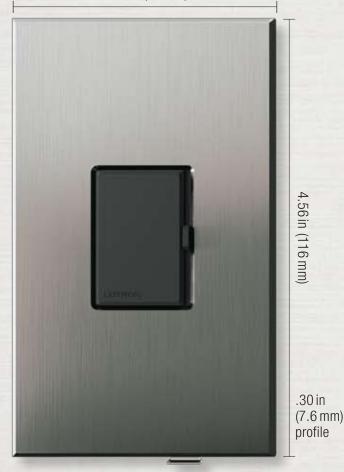
#### Accessories



#### **Coordinated electrical devices**



#### 2.75 in (70 mm)



Shown actual size: Vareo dimmer in Black (BL) with 1-gang Architectural wallplate in Satin Chrome (SC).

#### **Product family features**

- · Exclusive dimmer/switch size opening
- · Tapswitch returns light to slider position
- · Slide adjusts light to suit any activity
- · Sophisticated thin profile
- Use "no fins broken" wallplates for full wattage capacity in multi-gang applications
- Voltage compensation maintains stable light levels, despite line voltage variations
- · Mechanical air-gap to disconnect load power
- 100% factory tested
- Coordinating wallplate included with Architectural matte finish controls, metal wallplates only available separately
- Custom engraving and custom coloring available for wallplates, see pg. 155

#### **Control types**

Single-pole (one location)

Multi-location switching only (up to ten locations)

## **Direct load type compatibility**

Incandescent/halogen lighting

Magnetic low-voltage lighting

Fluorescent lighting

LED lighting

## Load types requiring load interface

☐ Electronic low-voltage lighting

Neon/cold cathode lighting

Lighting load interfaces may be applicable for some additional load type, voltage and capacity combinations.

For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: V-600-**TP**) Architectural matte finishes\*



#### Architectural metal finish wallplates\*\*



- \*Coordinating wallplate included with Architectural matte controls.
- \*\*Metal finish wallplates only available separately and include black plastic trim/adapter, visible from side. Match with separate Black (BL) controls. For wallplate information, see pg. 152.

#### **Dimmers**

#### **Preset dimmers**



- Tapswitch turns on/off
- Slide up to brighten; down to dim
- Includes hidden locator light in White, Beige, Ivory and Taupe models only

#### Switches and auxiliary tapswitches

#### **Tapswitches**



· Tapswitch turns lights on/off

#### **Tapswitches with status light**



- · Tapswitch turns lights on/off
- · Includes status light

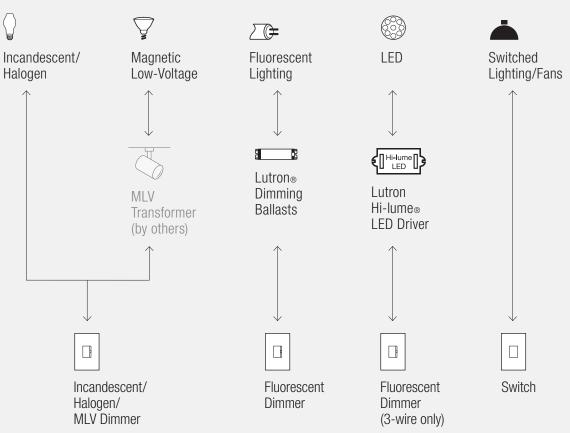
#### **Auxiliary tapswitches**



· Tapswitch turns lights on/off

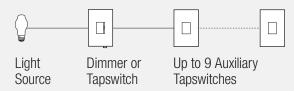
#### **Connections overview**

#### Load connections\*



#### Control types (for 2 or more locations)

Dim from 1 location, switch from the others (up to 10)



For more information on ballasts, visit **www.lutron.com/ballasts**. For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

## Incandescent/halogen and/or

## **▼** Magnetic low-voltage dimmers

#### Preset dimmers

Multi-location/single-pole	V-600- <b>AA</b> ²
120V 600W/VA	
Multi-location/single-pole	V-1000- <u><b>AA</b></u> ²
120V 1000W/VA	

The stated W (Watt) rating is the maximum incandescent lamp load. Ratings for MLV loads represent the maximum of the total lamp wattage plus MLV transformer loss (typically 20%).

#### 

#### Preset dimmer

Multi-location/single-pole	VF-10- <b>AA</b> ²
120V 8A	

For use with Hi-lume®, Hi-lume® Compact SE, Hi-lume® 3D, Eco-10®, EcoSystem® ballasts.

No derating required if ganged.

Adjustable low-end and high-end trim.

#### 

#### Preset dimmer

Multi-location/single-pole	VF-10- <b>AA</b> ²
120V 8A	

To control lights from multiple-locations, use Vareo® auxiliary electronic tapswitches, VETS-R-.

Not for use with mechanical 3-way or 4-way switches.

Adjustable high-end and low-end trim.

For more information on Lutron ballasts, visit www.lutron.com/ballasts.

For more information on Hi-lume LED drivers, visit **www.lutron.com/HilumeLED**.

All models must be derated in standard ganging unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

#### Switch and auxiliary tapswitch model numbers

#### **▲** Switches

#### **Tapswitch**

Multi-location/single-pole	VETS-1000- <b>AA</b> 2
120V 1000W/VA	

#### Tapswitch with locator light\*

Multi-location/single-pole VETS-1000-SL-AA²
120V 1000W/VA

Rated for: incandescent/halogen, magnetic low-voltage, fluorescent switching with magnetic ballasts.

#### Tapswitch\*

Multi-location/single-pole	VETN-1000- <b>AA</b> 2
120V 1000W/VA	

Rated for: electronic low-voltage, fluorescent switching with electronic ballasts and most non-dim LED drivers.

#### **Auxiliary tapswitches**

#### Auxiliary tapswitch

120V	VETS-R- <b>AA</b> 2
1 Z O V	V _ 1 O 1 1 7 7 7 7

For multi-location switching, use up to nine auxiliary tapswitches, except with VETS-1000-SL- model.

Not for use with mechanical 3-way or 4-way switches.

#### Auxiliary tapswitch with status light

120V VETS-A-SL-**AA**<sup>2</sup>

For multi-location switching, use up to four VETS-A-SL- with one VETS-1000-SL- model.

Not for use with VETS-R- or mechanical 3-way or 4-way switches.

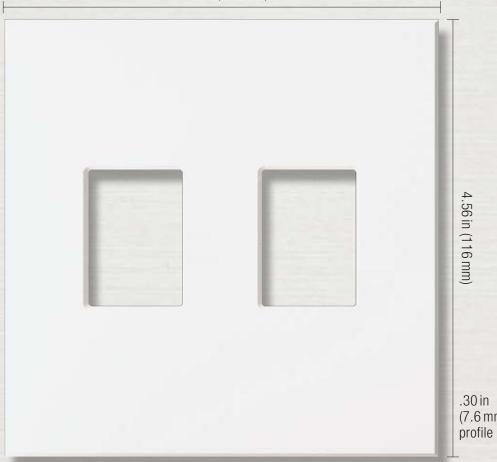
VETS-R- and VETS-A-SL auxiliary electronic tapswitches do not require derating when ganged.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 21 (1-gang wallplate included)

#### Accessories

## **Wallplates**

4.56 in (116 mm)

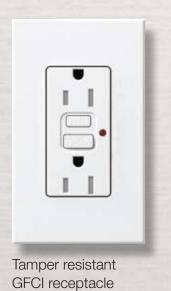


Shown actual size: 2-gang Architectural wallplate in White (WH). For more information about Architectural wallplates,

see pg. 152.

 $(7.6 \, \text{mm})$ 

#### **Coordinated electrical devices**







Architectural electrical devices, see pg. 156.

For more information about coordinated

2.75 in (70 mm)



.30 in (7.6 mm) profile

Shown actual size: Nova T☆ dimmer in Black (BL) with 1-gang Architectural wallplate in Clear Anodized Aluminum (CLA).

#### **Product family features**

- Full family of controls plus matching fan controls, switches and wiring devices
- · Exclusive dimmer/switch size opening
- · Slide adjusts light to suit any activity
- · Classic slider, thin profile design
- Voltage compensation maintains stable light levels, despite line voltage variations
- · Mechanical air-gap to disconnect load power
- · 100% factory tested
- Coordinating wallplate included with Architectural matte finish controls, metal wallplates only available separately
- Custom engraving and custom coloring available for wallplates, see pg. 155

#### **Control types**

Single-pole (one location)

o 3-way or 4-way (two or more locations)

☐ Two-location dimming only (Omnislide™)

## **Direct load type compatibility**

▼ Magnetic low-voltage lighting

☐ Electronic low-voltage lighting

□ Fluorescent lighting

LED lighting

★ Ceiling fans

Motorized window treatments (AC)

## Load types requiring load interface

Neon/cold cathode lighting

Lighting load interfaces may be applicable for some additional load type, voltage and capacity combinations.

For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: NT-600-<u>SI</u>) Architectural matte finishes\*



#### Architectural metal finish wallplates\*\*



- \*Coordinating wallplate included with Architectural matte controls.
- \*\*Metal finish wallplates only available separately and include black plastic trim/adapter, visible from side. Match with separate Black (BL) controls. For wallplate information, see pg. 152.

## Nova T☆ dimmers, switches and fan controls

#### **Dimmers**

#### Slide-to-off dimmers/single-pole



- · Slide up to brighten; down to dim
- · Standard size dimmer shown
- Higher capacity loads require large controls, see below

#### Switches and fan controls

#### **Linear-slide switches**



· Slide up to on; down to off

#### Preset dimmers/3-way



- Button turns on/off to slider level
- · Slide up to brighten; down to dim
- Higher capacity loads require large controls, see below

#### Slide-to-off fan controls



- Slide up to increase speed/on; down to decrease speed/off
- Quiet 3-speed available for use with one paddle fan, or fully variable available for use with multiple paddle or exhaust fans
- Quiet 3-speed model designed to prevent motor hum
- Higher capacity loads require large controls, see below

#### **Omnislide two-location slide-to-off dimmers**



- · Slide up to brighten; down to dim
- Provides true dimming from both locations

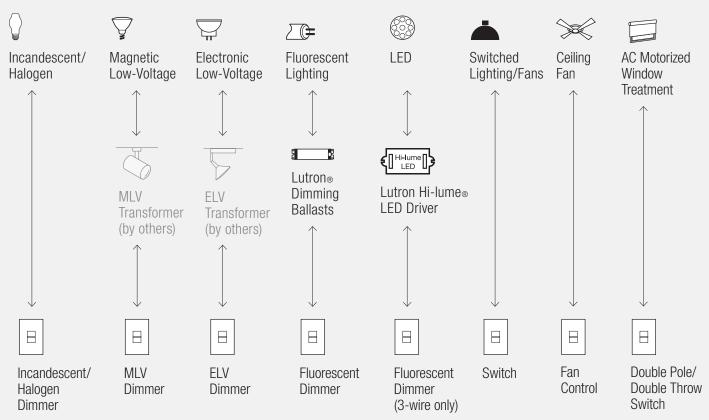
## Large Control



- Higher capacity dimmers require larger heat sink behind wallplate
- Large controls available as preset dimmer, slide-to-off dimmer or fan control
- Large control measures 4.56 in x 4.56 in
- · Requires large wallplate
- Most can fit in a 1-gang electrical backbox

#### **Connections overview**

#### Load connections\*

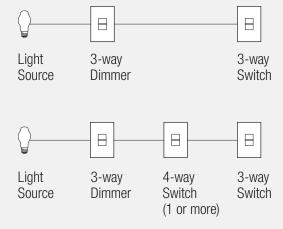


#### **Control types** (for 2 or more locations)

Dim from two locations (Incandescent/halogen only)



#### Dim from one location, switch from the others



For more information on ballasts, visit **www.lutron.com/ballasts**. For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

#### **Incandescent/halogen dimmers**

(small and large controls)

#### Slide-to-off dimmers

Single-pole (small)	NT-600- <u><b>AA</b></u> ²
120V 600W	
Single-pole (small)	NT-1000- <u><b>AA</b></u> ²
120V 1000W	
Single-pole (large)	NT-1500- <u><b>AA</b></u> ²
120V 1500W	
Single-pole (large)	NT-2000- <u><b>AA</b></u> ²
120V 1920W	

NT-2000 dimmers must be ganged with no fins broken. See ganging and derating on pg. 170 for further information.

NT-2000 requires a 2-gang electrical backbox.

#### Omnislide two-location slide-to-off dimmers

Base unit (small)	NTB-600- <b>AA</b> 2
120V 600W	
Base unit (small)	NTB-1000- <b>AA</b> <sup>2</sup>
120V 1000W	
Auxiliary unit (use with base unit)	NTA-2- <b>AA</b> ²

For two-location incandescent/halogen dimming, use one base unit (NTB-600- or NTB-1000-) with one auxiliary unit (NTA-2-).

#### Preset dimmers

	)	//single-pole (small)	
gle-pole (small) NT-1003P- <b>AA</b> 2	)	y/single-pole (small)	3-way
gle-pole (large) NT-1503P- <b>AA</b> 2	)	y/single-pole (large)	3-way
JU VV		1300 00	12U V

### **▼ Magnetic low-voltage dimmers**

(small and large controls)

Slic	de-to-	off (	dim	mers

ondo to on anninoro	
Single-pole (small)	NTLV-600- <b>AA</b> ²
120V 600VA (450W)	
Single-pole (small)	NTLV-1000- <u>AA</u> ²
120V 1000VA (800W)	
Single-pole (small)*	NTLV-600-277- <b>AA</b> 2
277 V 600 VA (450 W)	
Single-pole (small)*	NTLV-1000-277- <b>AA</b> 2
277V 1000VA (800W)	
Single-pole (large)	NTLV-1500- <u>AA</u> 2
1500 VA (1200 W)	

#### Preset dimmers

3-way/single-pole (small)	NTLV-603P- <b>AA</b> 2
120V 600VA (450W)	
3-way/single-pole (small)	NTLV-1003P- <b>AA</b> 2
120V 1000VA (800W)	
3-way/single-pole (large)	NTLV-1503P- <b>AA</b> ²
120V 1500VA (1200W)	

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 27 (1-gang wallplate included)

All models must be derated in standard ganging unless otherwise noted, see pg. 170.

## ₩ Electronic low-voltage dimmers\*

(small controls)

#### Slide-to-off dimmers

NTELV-300-AA <sup>2</sup>
NTELV-600- <u>AA</u> 2

Only certain LED drivers are dimmable using an ELV dimmer, for more information visit www.lutron.com/LED.

#### **Z** 3-wire fluorescent dimmers\*

(small control)

#### Slide-to-off dimmers

Single-pole	NTF-10- <b>AA</b> ²
120V 16A	
Single-pole	NTF-10-277- <b>AA</b> <sup>2</sup>
277V 8A	

#### Preset dimmers

3-way	NTF-103P- <b>AA</b> 2
120V 8A	
3-way	NTF-103P-277- <b>AA</b> ²
277 V 6A	

For use with Hi-lume<sub>®</sub>, Hi-lume<sub>®</sub> Compact SE, Hi-lume<sub>®</sub> 3D, Eco-10<sub>®</sub>, EcoSystem<sub>®</sub> ballasts.

Also compatible with Hi-lume® LED driver.

No derating required if ganged.

Adjustable low-end trim.

## **□ 0-10 V dimmer** (current sink control)

(small controls)

#### Slide-to-off dimmer

Single-pole	NTFTV- <b>AA</b> 2
30 mA max control current	

Control provides dimming signal only. For dimming with on/off switching, **use with Lutron PowerPack**: PP-120H, PP-277H or PP-347H.

Consult ballast manufacturer for specific ballast current draw to determine maximum number of ballasts per control.

For information on using Lutron dimmers to control: Advance Mark VII dimming ballasts, visit **www.lutron.com/advance**; Universal dimming ballasts, visit **www.lutron.com/universal**.

No derating required if ganged.

#### **Z** Tu-Wire fluorescent dimmers

(small controls)

#### Slide-to-off dimmers

Single-pole	NTFTU-5A- <b>AA</b> ²
120V 5A	
Single-pole*	NTFTU-5A-277- <b>AA</b> 2
277V 5A	

Also compatible with Advance Mark X ballasts, for further information visit

#### www.lutron.com/advance.

For information on use with Universal and OSRAM ballasts, contact Technical Support at 1.800.523.9466.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 27 (1-gang wallplate included)

For more information on Lutron ballasts, visit **www.lutron.com/ballasts**.

All models must be derated if ganged unless otherwise noted, see pg. 170.

#### Hi-lume LED drivers:

#### 3-wire fluorescent dimmers\*

(small controls)

#### Slide-to-off dimmers

NTF-10- <b>AA</b> 2	Single-pole
	120V 16A
NTF-10-277- <b>AA</b> 2	Single-pole
	277V 8A

#### Preset dimmers

3-way/single-pole	NTF-103P- <u><b>AA</b></u> 2
120V 8A	
3-way/single-pole	NTF-103P-277- <b>AA</b> 2
277\/ 6Δ	

Exclusively compatible with Hi-lume LED driver.

For more information on Hi-lume LED drivers, visit www.lutron.com/HilumeLED.

To control lights from multiple-locations, use 3-way dimmer with NT-3PS- and NT-4PS- or other mechanical switches.

No derating required if ganged.

Adjustable low-end trim.

#### **0-10V LED drivers:**

#### **0-10V dimmers** (current sink control)

(small controls)

#### Slide-to-off dimmer

Single-pole	NTFTV- <b>AA</b> ²
30 mA max control current	

Control provides dimming signal only. For

dimming with on/off switching, use with Lutron

PowerPack: PP-120H, PP-277H or PP-347H.

Consult ballast manufacturer for specific ballast current draw to determine maximum number of ballasts per control.

For compatible 0-10 V LED drivers by others, visit **www.lutron.com/LED**.

No derating required if ganged.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 27 (1-gang wallplate included)

#### Fan control and switch model numbers

#### **Fan controls**

(small and large controls)

#### Slide-to-off fan control—quiet 3-speed

Single-pole fan control (small)	NTFSQ- <u><b>AA</b></u> ²	
120V 1.5A		
For use with only one ceiling fan.		
No derating required if ganged.		
Slide-to-off fan controls—fully v	ariable	
	ariable NTFS-6E- <b>AA</b> ²	
Slide-to-off fan controls-fully v		

#### Switches

(small controls)

120V 12A

#### General purpose switches—all load types

Single-pole	NT-1PS- <b>AA</b> ²
120/277V 20A	
3-way	NT-3PS- <b>AA</b> ²
120/277V 20A	
4-way	NT-4PS- <b>AA</b> ²
120/277V 20 A	
Momentary contact	NT-DPDT-CO-MO- <b>AA</b> 2
120/277V 30A;	
2HP @ 120/240VAC	
Maintained contact	NT-DPDT-CO-MA- <b>AA</b> 2
120/277V 15A;	
1/2HP@120VAC;	
2HP @ 240VAC	

For 3-way and 4-way switching, use NT-3PS-, NT-4PS- or other mechanical switches.

No derating required if ganged.

All models must be derated in standard ganging unless otherwise noted, see pg. 170.

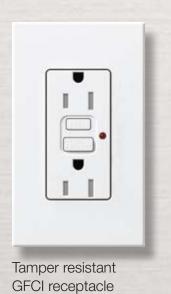
#### Accessories

#### **Wallplates**

4.56 in (116 mm) 4.56 in (116 mm) .30 in  $(7.6 \, \text{mm})$ profile

Shown actual size: 2-gang Architectural wallplate in White (WH). For more information about Architectural wallplates, see pg. 152.

#### **Coordinated electrical devices**







For more information about coordinated Architectural electrical devices, see pg. 156.

2.75 in (70 mm)



.65 in (16.5 mm) profile

Shown actual size: Nova dimmer and 1-gang Architectural wallplate in White (WH)

#### **Product family features**

- · Slide adjusts light to suit any activity
- Full family of controls plus matching fan controls, switches and wiring devices
- Does not mount with Nova T☆
   aunder common wallplate
- Voltage compensation maintains stable light levels, despite line voltage variations
- · Mechanical air-gap to disconnect load power
- 100% factory tested
- Original thick profile does not fit flush against the wall, for thinner profile see Nova T☆ on pg. 26
- Custom engraving and custom coloring available for wallplates, see pg. 155
- · Coordinating wallplate included

#### **Control types**

Single-pole (one location)

उ-way or 4-way (two or more locations)

#### **Direct load type compatibility**

₩ Electronic low-voltage lighting

Neon/cold cathode lighting

□ Fluorescent lighting

LED lighting

★ Ceiling fans

## Load types requiring load interface

Lighting load interfaces may be applicable for some load type, voltage and capacity combinations.

For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: N-600-**BE**) Architectural matte finishes\*



<sup>\*</sup>Coordinating wallplate included with Architectural matte controls.

# Nova® dimmers, switches and fan controls

#### **Dimmers**

# Slide-to-off dimmers/single-pole



- · Slide up to brighten; down to dim
- · Standard size dimmer shown
- Higher capacity loads require large controls, see below

#### Switches and fan controls

#### **Linear-slide switches**



· Slide up to on; down to off

#### Preset dimmers/3-way



- · Slider button turns lights on/off
- · Slide up to brighten; down to dim
- · Standard size dimmer shown
- Higher capacity loads require large controls, see below

#### Slide-to-off fan controls



- Slide up to on/increase speed; down to decrease speed/off
- Fully variable control for use with multiple ceiling paddle fans or exhaust fans
- · Standard size fan control shown
- Higher capacity loads require large controls, see below

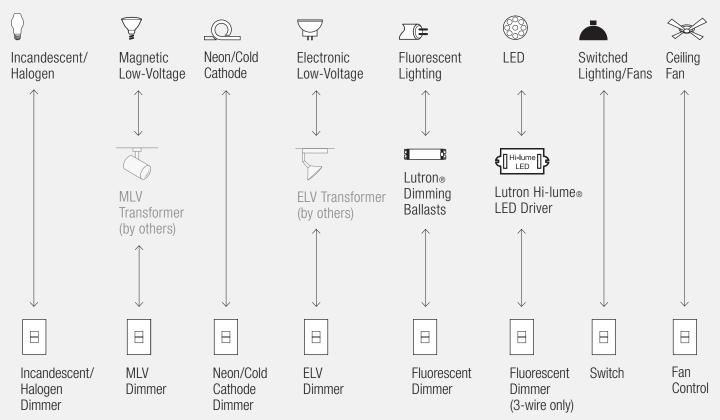


#### Large control

- Higher capacity dimmers require larger heat sink behind wallplate
- Large controls available as preset dimmer, slide-to-off dimmer or fan control
- Large control measures 4.56 in x 4.56 in
- Requires large wallplate
- Most can fit in a 1-gang electrical backbox

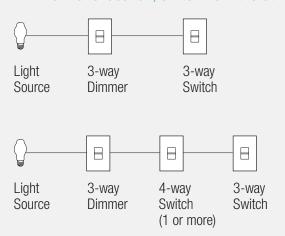
#### **Connections overview**

#### Load connections\*



# Control types (for 2 or more locations)

Dim from one location, switch from the others



For more information on ballasts, visit **www.lutron.com/ballasts**. For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

# **Incandescent/halogen dimmers**

(small and large controls)

#### Slide-to-off dimmers

Single-pole (small)	N-600- <b>AA</b> 2
120V 600W	
Single-pole (small)	N-1000- <u><b>AA</b></u> ²
120V 1000W	
Single-pole (large)	N-1500- <b>AA</b> ²
120V 1500W	
Single-pole (large)	N-2000- <u><b>AA</b></u> ²
120V 2000W	

Preset dimmers	
3-way/single-pole (small) 120V 600W	N-603P- <u><b>AA</b></u> ²
3-way/single-pole (small) 120V 1000W	N-1003P- <u><b>AA</b></u> ²
3-way/single-pole (large) 120V 1500W	N-1503P- <u><b>AA</b></u> ²
3-way/single-pole (large)	N-2003P- <b>AA</b> ²

For 3-way and 4-way switching, use N-3PS-, N-4PS- or other mechanical switches.

# ▼ Magnetic low-voltage and/or

# Neon/cold cathode dimmers\*

(small and large controls)

#### Slide-to-off dimmers

120V 2000W

Single-pole (small)	NLV-600- <b>AA</b> <sup>2</sup>
120V 600VA (450W)	
Single-pole (large)	NLV-1000- <u><b>AA</b></u> ²
120V 1000VA (800W) Single-pole (large)	NLV-1500- <b>AA</b> ²
120V 1500VA (1200W)	NEV 1000 AA

For neon/cold cathode dimming, consult Lutron® Technical Support: Application note #25.

# **▼** Magnetic low-voltage dimmers

(small and large controls)

#### Preset dimmers

3-way/single-pole (small)	NLV-603P- <b>AA</b> ²
120V 600VA (450W)	
3-way/single-pole (small)	NLV-1003P- <b>AA</b> ²
120V 1000VA (800W)	
3-way/single-pole (large)	NLV-1503P- <b>AA</b> ²
120V 1500VA (1200W)	
3-way/single-pole (large)	NLV-2003P- <b>AA</b> ²
120V 2000VA (1600W)	

For 3-way and 4-way switching, use N-3PS-, N-4PS- or other mechanical switches.

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

# Electronic low-voltage dimmer\*

(small control)

#### Slide-to-off dimmer

Single-pole	NELV-450- <b>AA</b> ²
120V 450W	

Only certain LED drivers are dimmable using an ELV dimmer, for more information visit www.lutron.com/LED.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 35 (1-gang wallplate included)

Custom ganging and derating applies, see pg. 170.

\*Requires neutral wire connection.

#### 7 → 3-wire fluorescent dimmers\*

(small and large controls)

#### Slide-to-off dimmers

Single-pole (small)	NF-10- <b>AA</b> ²
120V 16A	
Single-pole (large)	NF-10-277- <b>AA</b> ²
277 V 8 A	

#### Preset dimmers

1 1030t dill'illioi3	
3-way/single-pole (small)	NF-103P- <b>AA</b> ²
120V 8A	
3-way/single-pole (large)	NF-103P-277- <b>AA</b> 2
277V 6A	

For use with Hi-lume<sub>®</sub>, Hi-lume<sub>®</sub> Compact SE, Hi-lume<sub>®</sub> 3D, Eco-10<sub>®</sub>, EcoSystem<sub>®</sub> ballasts.

Also compatible with Hi-lume® LED driver.

For 3-way and 4-way switching use N-3PS-, N-4PS- or other mechanical switches.

No derating required if ganged.

Adjustable low-end trim.

# **□ 0-10V dimmer** (current sink control)

(small controls)

#### Slide-to-off dimmer

Single-pole	NFTV- $\underline{\mathbf{A}}$ 2
30 mA max control current	

Control provides dimming signal only. For dimming with on/off switching, **use with Lutron PowerPack**: PP-120H, PP-277H or PP-347H.

Consult ballast manufacturer for specific ballast current draw to determine maximum number of ballasts per control.

For information on using Lutron<sub>®</sub> dimmers to control: Advance Mark VII dimming ballasts, visit **www.lutron.com/advance**; Universal dimming ballasts, visit **www.lutron.com/universal**.

No derating required if ganged.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 35 (1-gang wallplate included)

#### **Tu-Wire**® fluorescent dimmer

(small control)

#### Slide-to-off dimmer

Single-pole	NFTU-5A- <u><b>AA</b></u> ²
120V 5A	

Also compatible with Advance Mark X ballasts. For further information, visit **www.lutron.com/advance**.

For information on use with Universal and OSRAM ballasts, contact Technical Support at 1.800.523.9466.

# Fluorescent dimmers with magnetic ballasts\* (small and large control)

#### Slide-to-off dimmers

NF-10- <b>AA</b> ²	Single-pole (small)
	120V 10 lamps
NF-20- <b>AA</b> 2	Single-pole (large)
	120V 20 lamps
NF-30- <b>AA</b> 2	Single-pole (large)
	120V 30 lamps
NF-10-277- <b>AA</b> ²	Single-pole (large)
	277 V 10 lamps
NF-20-277- <b>AA</b> 2	Single-pole (large)
	277 V 20 lamps

For best fluorescent dimming performance and reliability, Lutron strongly recommends using Hi-lume, Hi-lume Compact SE, Eco-10, EcoSystem, TVE<sub>TM</sub> or Tu-Wire electronic dimming ballasts and appropriate controls.

For more information on Lutron ballasts, visit **www.lutron.com/ballasts**.

Custom ganging and derating applies, see pg. 170.

\*Requires neutral wire connection.

# Hi-lume LED drivers:

#### 3-wire fluorescent dimmers\*

(small and large controls)

#### Slide-to-off dimmers

Single-pole (small)	NF-10- <b>AA</b> 2
120V 16A	
Single-pole (large)	NF-10-277- <b>AA</b> ²
277V 8A	

#### Preset dimmers

277 V 6A

3-way/single-pole (small)	NF-103P- <b>AA</b> ²
120V 8A	
3-way/single-pole (large)	NF-103P-277- <b>AA</b> ²

Exclusively compatible with Hi-Lume LED driver. For more information on Hi-lume LED drivers, visit www.lutron.com/HilumeLED.

For 3-way and 4-way switching use N-3PS-N-4PS- or other mechanical switches.

No derating required if ganged.

Adjustable low-end trim.

# **0-10V LED drivers:**

**0-10V dimmers** (current sink control)

(small controls)

#### Slide-to-off dimmers

Single-pole	NFTV- <b>AA</b> ²
30 mA max control current	

Control provides dimming signal only. For dimming with on/off switching, **use with Lutron PowerPack**: PP-120H, PP-277H or PP-347H.

Consult ballast manufacturer for specific ballast current draw to determine maximum number of ballasts per control.

For compatible 0-10 V LED drivers by others, visit **www.lutron.com/LED**.

No derating required if ganged.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 35 (1-gang wallplate included)

#### Switch and fan control model numbers

#### Switches

(small controls)

#### General purpose switches

Single-pole	N-1PS- <b>AA</b> 2
120/277V 20A	
Single-pole	N-1PS-347- <b>AA</b> 2-CSA
347V 20A	
3-way	N-3PS- <u><b>AA</b></u> ²
120/277V 20A	
3-way	N-3PS-347- <b>AA</b> 2-CSA
347V 20A	
4-way	N-4PS- <b>AA</b> ²
120/277V 20A	
No derating required if ga	anged.

# Fan controls

(small and large controls)

#### Slide-to-off fan controls-fully variable

Single-pole fan control (small)	NFS-6E- <b>AA</b> 2
120V 6A	
Single-pole fan control (large)	NFS-12E- <u><b>AA</b></u> ²
120V 12A	

No derating required if ganged.

Custom ganging and derating applies, see pg. 170.

\*Requires neutral wire connection.

#### Accessories

# **Multi-gang applications**

4.56 in (116 mm)



Shown actual size: Custom Architectural multi-gang Nova wallplate in White (WH).

Custom ganging and derating required for Nova controls, see pg. 170.

For information about Nova multi-gang wallplates, visit www.lutron/custommultigang.

.65 in (16.5 mm) profile including faceplate and base unit

#### **Coordinated electrical devices**



Customizable



For more information about coordinated Architectural electrical devices, see pg. 156.

6-port frame

2.75 in (70 mm)



.65 in (16.5 mm) profile

Shown actual size: Centurion dimmer and 1-gang wallplate in White (WH).

# **Product family features**

- · Rotary style dimmer with captive knob
- Heavy duty components for surge protection and long product life
- · Visible heat sink
- Gangable without removing side sections and reducing wattage
- Voltage compensation maintains stable light levels, despite line voltage variations
- Mechanical air-gap to disconnect load power
- · 100% factory tested
- Original thick profile does not fit flush against the wall, for thinner profile see Nova T☆® on pg. 26
- · Coordinating 1-gang wallplate included
- Custom engraving and custom coloring available for wallplates, see pg. 155

# **Control types**

Single-pole (one location)

o o or way or 4-way (two or more locations)

# **Direct load type compatibility**

Lighting load interfaces are not compatible with this family.

#### **Available finishes**

Use **BOLD** color code in model number (Example: C-600-**BE**)

Architectural matte finishes\*\*





WH White

**BE** Beige

# **Rotary dimmers**



 Rotate or push on/off (depending on model), rotate to adjust light level



- Large control measures
   4.56 in x 4.56 in
- Fits into a 1-gang electrical backbox
- Requires large faceplate

#### **Connections overview**

#### Load connections\*



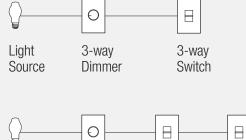
Incandescent/ Halogen



Ð

Incandescent/ Halogen Dimmer

# **Control types** (for 2 or more locations) Dim from one location, switch from the others





\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

<sup>\*\*</sup>Coordinating wallplate included with Architectural matte controls.

# Incandescent/halogen dimmers

Single-pole (small)	C-600- <b>AA</b> <sup>2</sup>
120V 600W	
Single-pole (small)	C-1000- <u><b>AA</b></u> ²
120V 1000W	
Single-pole (large)	C-1500- <b>AA</b> <sup>2</sup>
120V 1500W	
Single-pole (large)	C-2000- <u><b>AA</b></u> ²
120V 2000W	

## Rotary, push on/off (small controls)

C-600P- <b>AA</b> <sup>2</sup>
C-10P- <b>AA</b> <sup>2</sup>
C-603P- <b>AA</b> <sup>2</sup>
C-103P- <b>AA</b> <sup>2</sup>

Multi-gang wallplates are not available.

When ganging controls, mount single-gang wallplates side-by-side. Not gangable with other dimmer families.

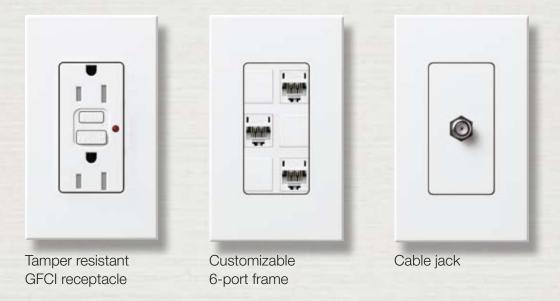
Wider-than-standard electrical backboxes may be required.

For 3-way and 4-way switching, use a 3-way dimmer with mechanical switches.

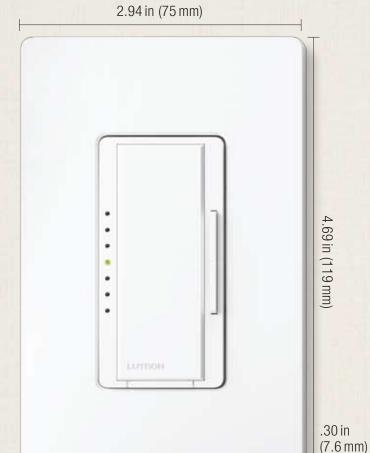
**AA**<sup>2</sup>: Architectural matte White (WH) and Beige (BE), see pg. 43 (1-gang wallplate included)

## **Accessories**

## **Coordinated electrical devices**



For more information about coordinated Architectural electrical devices, see pg. 156.



Shown actual size: Maestro dimmer and 1-gang Claro wallplate in White (WH).

# **Product family features**

- True multi-location dimming from every location
- · Tap on to favorite level; tap off; tap twice for full on
- · Touch rocker to adjust light level
- LEDs indicate light level and glow softly in the dark as a locator light
- Delayed off provides light as you exit the room
- Line frequency compensation maintains stable light levels, despite power line frequency and voltage variations
- · Programming allows customized functions
- eco-dim<sub>®</sub>, eco-minder™ and eco-timer models available
- · Mechanical air-gap to disconnect load power
- · 100% factory tested
- Coordinating Claro®, Satin Colors® and Stainless Steel wallplates only available separately
- Custom engraving available for wallplates, see pg. 155

# **Control types**

profile

Single-pole (one location)

Multi-location dimming from every location (up to ten locations)

# **Direct load type compatibility**

Incandescent/halogen lighting

Magnetic low-voltage lighting

☐ Electronic low-voltage lighting

Fluorescent lighting

LED lighting

★ Ceiling fans

★ Ceiling fan/lights

# Load type requiring load interface

Lighting load interfaces may be applicable for some load type, voltage and capacity combinations.
For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: MA-600-**BR**) Gloss finishes\*



#### Satin finishes\*



<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 160.

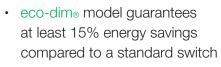
Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) or Midnight (MN) controls.

#### **Dimmers and switches**

# **Digital fade dimmers**



- · Tap on to favorite level; tap off
- · Tap twice for full on
- Press, hold and release for delayed fade-to-off
- Touch rocker to adjust light level
- Provides true dimming from each location (with companion dimmers)





Dimmer advanced programming features available

#### **Timers**

#### Countdown timer switches (5–60 minutes/full on)



- Use with exhaust fans to reduce moisture, mold and mildew in bathrooms and kitchens
- · Use with lighting
- · Tap on to start timer; tap off
- Tap twice for untimed on
- Touch rocker to adjust countdown time
- One minute warning before lights/fan go off
- Top LED is full on with no timer action
- Timer advanced programming features available
- Multi-location control with companion switch



eco-minder<sub>TM</sub>

# **Digital switches**



- For multi-location switching, use one Maestro multi-location switch with Maestro companion switches
- Tap switch on/off

# Countdown eco-timer switch (30 minutes)



- Use with exhaust fans to reduce moisture, mold and mildew in bathrooms and kitchens
- Use with lighting
- · Tap on to start timer; tap off
- Touch rocker to adjust countdown time
- One minute warning before lights/fan go off
- Timer always turns off
- · Single-location only
- Timer advanced programming features available

#### **Dual devices**

#### **Dual dimmers** (two loads)



#### **Dimmers** (top/bottom)

- · Replacement for stacked switches
- Tap on to favorite light level; tap off
- Tap twice for full on
- Touch rocker to adjust light level
- Single-location only
- Dimmer advanced programming features available

#### **Dual dimmer/switch** (two loads)



#### **Dimmer** (top)

- Replacement for stacked switches
- Tap on to favorite light level; tap off
- · Tap twice for full on
- Touch rocker to adjust light level
- Dimmer advanced programming features available

#### Switch (bottom)

- Tap switch on/off
- Single-location only

### **Dual dimmer/countdown timer switch** (two loads)



#### **Dimmer** (top)

- · Tap on to favorite light level; tap off
- Tap twice for full on
- Touch rocker to adjust light level
- Dimmer advanced programming features available

#### **Timer switch** (bottom)

- Tap on to start timer; tap off
- Tap twice for untimed on
- Touch rocker to adjust countdown time from 5–60 minutes
- One minute warning before lights go off
- Top LED is full on with no timer action
- Single-location only
- Timer advanced programming features available

#### Advanced programming features include:

# Dimmer advanced programming features

- Adjusting fade on/ fade off time
- Locked preset lighting level

# Timer advanced programming features

- Bypass timer option
- Locked preset lighting level

# Sensor advanced programming features

- Adjust timeout duration
- Off warning feature (dimmer with occupancy and/or vacancy sensor only)
- Sensor sensitivity
- Auto-on feature (occupancy models only)

Maestro advanced programming manual (Application Note #124) is available at **www.lutron.com/applicationnotes**.

#### Dimmers and switches with sensors\*

# Dimmers with occupancy/vacancy sensor



#### **Dimmer** (top)

- · Tap on to favorite light level; tap off
- · Tap twice for full on
- Touch rocker to adjust light level
- Works with up to nine companion dimmers (MA-R-)
- Dimmer advanced programming features available, see pg. 49

#### Sensor (bottom)

- Turns lights off to save energy when no one is in the room
- Vacancy models meet California
   Title 24 Section 119(j)
   requirements. Lights are turned on manually and off by the sensor.
- 180° field of view motion sensor
- Sensor advanced programming features available, see pg. 49

#### **Companion dimmers and switches**

# **Companion dimmers**



- For true multi-location dimming from every location, use up to nine companion dimmers with only one Maestro® multi-location dimmer
- Use standard single-pole and 3-way wiring

#### **Companion switches**



- For use with multi-location switches, use up to nine Maestro companion switches with one Maestro multi-location switch
- Can be used with multi-location countdown timer switch
- Use standard single-pole and 3-way wiring

## Switches with occupancy/vacancy sensor



#### Switch (top)

- · Tap switch on/off
- Works with up to nine companion switches (MA-AS-)

#### Sensor (bottom)

- Turns lights off to save energy when no one is in the room
- Vacancy models meet California
   Title 24 Section 119(j)
   requirements. Lights are turned on manually and off by the sensor.
- 180° field of view motion sensor
- Sensor advanced programming features available, see pg. 49

\*For more information on Maestro dimmers and switches with occupancy/vacancy sensor, see pg. 140.

## Fan and fan/light controls

# **Digital fan controls**



- Multi-location, fan only
- · Controls up to four fans
- One canopy module included, order one canopy module (CM-FQ1) for each additional fan controlled, see pg. 57
- · 7-quiet fan speeds, plus off
- · Designed to prevent motor hum

# Fan/light controls



#### **Dimmer** (top)

- Tap on to favorite light level; tap off
- Tap twice for full on
- · Touch rocker to adjust light level

#### Fan control (bottom)

- Tap on to favorite fan speed; tap off
- Touch rocker to adjust fan speed
- 7-quiet fan speeds, plus off, provide enhanced comfort
- Designed to prevent motor hum

#### Companion fan and fan/light controls

### **Companion fan controls**



 For use with multi-location control, use up to two companion fan controls with one Maestro digital fan control

## Companion fan/light controls



 For use with multi-location control, use up to two companion controls with one Maestro multi-location fan/light control

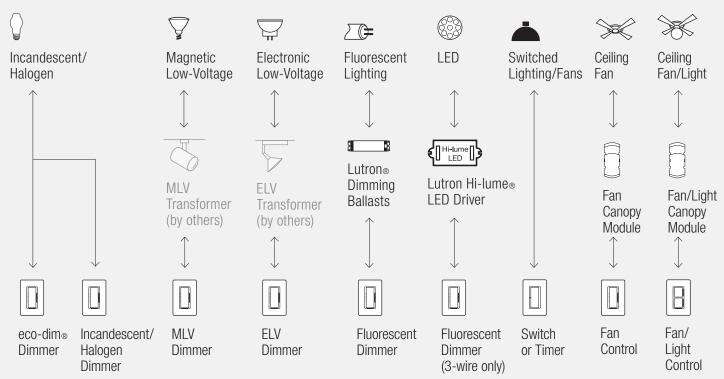
### **Canopy modules (fan mounted)**



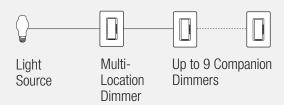
- For use only in multi-fan applications with MA-FQ4FM, see pg. 57
- Order one canopy module for each additional fan controlled
- Use up to three additional fan-mounted canopy modules for up to four fans total (controlled as one group)

#### **Connections overview**

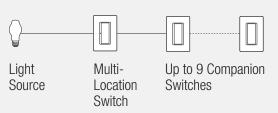
#### Load connections\*



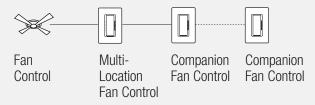
# **Control types** (for 2 or more locations) Dim from multiple-locations (up to 10)



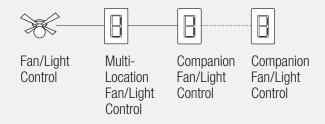
### Switch from multiple-locations (up to 10)



# Fan control from up to 3 locations



#### Fan/light control from up to 3 locations



For more information on ballasts, visit **www.lutron.com/ballasts**. For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

# 

#### Digital fade dimmers

Multi-location/single-pole	MA-600- <b>CC</b> <sup>3</sup>
120V 600W	
Multi-location/single-pole	MSC-600M- <u>CC</u> 4
120V 600W	
Multi-location/single-pole	MA-1000- <u>CC</u> <sup>3</sup>
120V 1000W	
Multi-location/single-pole	MSC-1000M- <u>CC</u> 4
120V 1000W	

#### eco-dim<sub>®</sub> digital fade dimmer\*\*

Multi-location/single-pole	MA-600G- <b>EE</b> <sup>2</sup>
120V 600W	

eco-dim model guarantees at least 15% energy savings and triples lamp life compared to a standard switch.

#### eco-minder™ digital fade dimmer\*\*

Multi-location/single-pole	MA-6001- <b>EE</b> 2
120V 600W	

eco-minder green LED lights demonstrate 15% or more energy savings compared to a standard switch.

#### **▼** Magnetic low-voltage dimmers\*\*

# Digital fade dimmers

Multi-location/single-pole	MALV-600- <b>CC</b> 3
120V 600VA (450W)	
Multi-location/single-pole	MSCLV-600M- <u>CC</u> 4
120V 600VA (450W)	
Multi-location/single-pole	MALV-1000- <u>CC</u> 3
120V 1000VA (800W)	
Multi-location/single-pole	MSCLV-1000M- <u>CC</u> 4
120V 1000VA (800W)	

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

# **□** Electronic low-voltage dimmers\*

#### Digital fade dimmers

Multi-location/single-pole	MAELV-600- <u>CC</u> 3
120V 600W	
Multi-location/single-pole	MSCELV-600M- <u>CC</u> 4
120V 600W	

Only certain LED drivers are dimmable using an ELV dimmer, for more information visit www.lutron.com/LED.

**CC**<sup>3</sup>: Gloss color codes, see pg. 47

**CC**<sup>4</sup>: Satin color codes, see pg. 47

**EE**<sup>2</sup>: Available in White (WH), Ivory (IV), Almond (AL) and Light Almond (LA) (Wallplates not included with above, order separately, see pg. 160) All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

#### **⊅** 3-wire fluorescent dimmers\*

#### Digital fade dimmers (two loads)

Multi-location/single-pole	MAF-6AM- <u>CC</u> 3
120V 6A	
Multi-location/single-pole	MSCF-6AM- <u>CC</u> ⁴
120V 6A	
Multi-location/single-pole	MAF-6AM-277- <b>CC</b> <sup>3</sup>
277V 6A	
Multi-location/single-pole	MSCF-6AM-277- <b>CC</b> 4
277V 6A	

For use with Hi-lume, Hi-lume Compact SE, Hi-lume, 3D, Eco-10, EcoSystem, ballasts. Fixed low-end trim (non-adjustable).

# Hi-lume® LED drivers: 3-wire fluorescent dimmers\*

#### Digital fade dimmers

Multi-location/single-pole	MAF-6AM- <u>CC</u> <sup>3</sup>
120V 6A	
Multi-location/single-pole	MSCF-6AM- <u>CC</u> ⁴
120V 6A	
Multi-location/single-pole	MAF-6AM-277- <u>CC</u> <sup>3</sup>
277V 6A	
Multi-location/single-pole	MSCF-6AM-277- <u>CC</u> 4
277V 6A	

For use with Hi-lume LED driver only.

For more information on Hi-lume LED drivers,

visit www.lutron.com/HilumeLED.

Fixed low-end trim (non-adjustable).

# Dimmers and switches with sensor model numbers

# Incandescent/halogen dimmers with occupancy/vacancy sensor

Digital fade dimmer with occupancy/vacancy sensor\*\*

Multi-location/single-pole MS-OP600M-<u>CC</u><sup>1</sup> 120V 600W

Digital fade dimmer with vacancy only sensor

Multi-location/single-pole MS-VP600M-<u>CC</u><sup>1</sup> 120 V 600 W

Not for use with mechanical 3-way or 4-way switches.

# ▲ Switches with occupancy/vacancy sensor

Digital switch with occupancy/vacancy sensor\*

Multi-location/single-pole MS-OPS5AM-<u>CC</u><sup>1</sup>
120 V 5 A

Rated for: incandescent/halogen, magnetic low-voltage, electronic low-voltage, non-dim fluorescent ballasts, non-dim LED drivers.

#### Digital switch with vacancy only sensor\*

Multi-location/single-pole MS-VPS5AM-<u>CC</u><sup>1</sup> 120 V 5 A

Rated for: incandescent/halogen, magnetic low-voltage, electronic low-voltage, non-dim fluorescent ballasts, non-dim LED drivers.

CC1: Gloss and Satin color codes, see pg. 47

CC<sup>3</sup>: Gloss color codes, see pg. 47

**CC**<sup>4</sup>: Satin color codes, see pg. 47

(Wallplates not included with above, order separately, see pg. 160)

For more information on Lutron ballasts, visit **www.lutron.com/ballasts**.

All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

#### Switch model numbers

#### **▲** Switches

#### Digital switches

Multi-location/single-pole\*
120V 8A light or 3A fan

MA-S8AM-<u>CC</u><sup>3</sup>

Multi-location/single-pole\* 120V 8A light or 3A fan

MSC-S8AM-<u>CC⁴</u>

Rated for: incandescent/halogen, magnetic low-voltage, electronic low-voltage, non-dim fluorescent ballasts, general purpose fans and most non-dim LED drivers.

Multi-location/single-pole\* MSCF-S6AM-277-**CC**<sup>4</sup> 277 V 6 A light

Multi-location/single-pole\* MAF-S6AM-277-<u>CC</u><sup>3</sup> 277 V 6 A light

Rated for: incandescent/halogen, magnetic low-voltage, electronic low-voltage, non-dim fluorescent ballasts and most non-dim LED drivers.

#### **Timer model numbers**

#### **▲ Timers**

Countdown timer control switch (5–60 minutes/full on)\*\*

Single-pole, no neutral required MA-T51-**CC**<sup>1</sup>
120 V 600 W/VA (5 A) on/off lighting load
(incandescent/halogen, MLV)
OR 3 A general purpose fan(s)

Multi-location/single-pole\* MA-T51MN-<u>CC</u><sup>1</sup>
120 V 600 W/VA (5 A) on/off lighting load
(incandescent/halogen, MLV, ELV, fluorescent)
OR 3 A general purpose fan(s)

Use MA-T51MN- with a companion switch (MA-AS- or MSC-AS-) for multi-location switching.

# Countdown eco-timer control switch (30 minutes/full on)\*\*

Single-pole MA-T530G-<u>EE</u><sup>2</sup>
120 V 600 W/VA (5 A) on/off lighting load
(incandescent/halogen, MLV)
OR 3 A general purpose fan(s)

CC1: Gloss and Satin color codes, see pg. 47

 $\underline{\mathbf{CC}}^{3}$ : Gloss color codes, see pg. 47

**CC⁴**: Satin color codes, see pg. 47

EE<sup>2</sup>: Available in White (WH), Ivory (IV),
Almond (AL) and Light Almond (LA)
(Wallplates not included with above, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

#### **Dual device model numbers**

# √ Incandescent/halogen dimmer and Incandescent/halogen dimmer\*\* A property of the control of the control

#### **Dual dimmers**

Single-pole MA-L3L3-<u>CC</u><sup>1</sup>
120 V 300 W light (top)
Incandescent/halogen
120 V 300 W light (bottom)
Incandescent/halogen

# Incandescent/halogen dimmer and switch\*\*

#### Dual dimmer/switch

Single-pole MA-L3S25-**CC**¹
120 V 300 W light (top)
Incandescent/halogen
2.5 A switch (bottom)
Lighting load and/or general purpose fan(s)

# Incandescent/halogen dimmer and timer switch\*\*

## Dual dimmer/timer switch

Single-pole MA-L3T251-<u>CC</u>¹
120V 300W light (top)
Incandescent/halogen
2.5 A timer switch (bottom)
Lighting load and/or general purpose fan(s)

#### **Companion control model numbers**

### **Companion controls**

# Companion dimmers

Companion dimmer MA-R-<u>CC</u><sup>3</sup>
120 V MSC-AD-<u>CC</u><sup>4</sup>
Companion dimmer MA-R-277-<u>CC</u><sup>3</sup>
277 V MSC-AD-277-<u>CC</u><sup>4</sup>

No derating required if ganged.

#### Companion switches

Companion switch	MA-AS- <u><b>CC</b></u> ³
120V	
Companion switch	MSC-AS- <u>CC</u> ⁴
120V	
Companion switch	MA-AS-277- <u>CC</u> 3
277 V	
Companion switch	MSC-AS-277- <u>CC</u> 4
277 V	

No derating required if ganged.

**CC**<sup>1</sup>: Gloss and Satin color codes, see pg. 47

**CC**<sup>3</sup>: Gloss color codes, see pg. 47 **CC**<sup>4</sup>: Satin color codes, see pg. 47

(Wallplates not included with above, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

# Fan control and fan/light control model numbers

#### **Fan controls**

## Digital fan controls-quiet 7-speed

Multi-location MA-FQ4FM-<u>CC</u><sup>1</sup>

120 V, up to 4 canopy modules (1 A each)

Multi-location package MA-FQ3-<u>CC</u><sup>1</sup>

120 V, up to 4 canopy modules (1 A each)

All above include one wall-mounted fan control and one fan-mounted canopy module. Wallplates sold separately.

Multi-location package (MA-FQ3-) also includes companion fan control (MA-AFQ4). Wallplates sold separately.

No derating required if ganged.

#### Canopy modules (fan-mounted)

Canopy module CM-FQ1 120 V 1 A

All Maestro fan controls and fan/light controls include one canopy module for control of one fan.

One additional canopy module (CM-FQ1) required for each additional fan—up to one fan total.

#### **Fan/light controls**

# Fan/light control-quiet 7-speed

Single-pole MA-LFQHW-WH

120 V 300 W light (top)

Incandescent/halogen

1 canopy module for up to 1 A fan (bottom)

Multi-location

MA-LFQM-CC1

120 V 300 W light (top)

Incandescent/halogen

1 canopy module for up to 1 A fan (bottom)

All above include the necessary wall-mounted fan/light control and one fan-mounted canopy module.

Single-pole model includes wallplate.

Multi-location model may be used with up to two companion fan/light controls (MA-ALFQ35-), see pg. 66. Wallplates sold separately.

No derating required if ganged.

**CC**<sup>1</sup>: Gloss and Satin color codes, see pg. 47 (Wallplates not included with above, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

## Companion fan and fan/light control model numbers

## Companion fan control

Companion fan control MA-AFQ4-<u>CC</u><sup>1</sup> 120 V

Use up to two wall-mounted companion fan controls with one MIR-FQ4FMT- or MIR-FQ4FM-for multi-location fan control.

No derating required if ganged.

#### Companion fan/light control

Companion fan/light control MA-ALFQ35-<u>CC</u><sup>1</sup> 120V

Use up to two wall-mounted controls with only one Maestro multi-location fan/light control.

No derating required if ganged.

**CC**<sup>1</sup>: Gloss and Satin color codes, see pg. 47 (Wallplates not included, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

#### Accessories

# **Wallplates**

4.75 in (121 mm)



Shown actual size: 2-gang Claro® wallplate in White (WH). For more information about Designer wallplates, see pg. 160.

#### **Coordinated electrical devices**



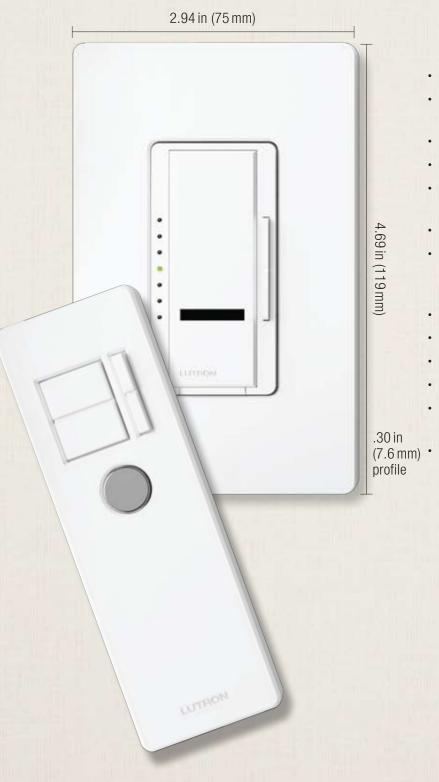
GFCI receptacle



6-port frame



For more information about coordinated Designer electrical devices, see pg. 163.



Shown actual size: Maestro IR dimmer and a 1-gang Claro wallplate in White (WH) with IR transmitter in White (WH).

Shown actual size: IR transmitter in White (WH), W: 1.5 in (38.1 mm) x H: 4.625 in (117.5 mm) x

D: .55 in (14 mm).

# **Product family features**

- · True multi-location dimming from every location
- Use the IR (infrared) remote control to adjust lights from anywhere in the room—up to 30ft line-of-sight
- · Tap on to favorite level; tap off; tap twice for full on
- · Touch rocker to adjust light level
- LEDs indicate light level and glow softly in the dark as a locator light
- · Delayed off provides light as you exit the room
- Line frequency compensation maintains stable light levels, despite power line frequency and voltage variations
- Mechanical air-gap to disconnect load power
- · 100% factory tested
- · Programming allows customized functions
- All models fit in 1-gang electrical backbox
- Coordinating Claro®, Satin Colors® and Stainless Steel wallplates only available separately
- Custom engraving available for wallplates, see pg. 155

# **Control types**

Single-pole (one location)

Multi-location dimming (up to ten locations)

### **Direct load type compatibility**

▼ Magnetic low-voltage lighting

□ Electronic low-voltage lighting

★ Ceiling fan controls

★ Ceiling fan/light controls

Lighting load interfaces are not compatible with this family.

#### **Available finishes**

Use **BOLD** color code in model number (Example: MIR-600-<u>LS</u>) Gloss finishes\*



#### Satin finishes\*



<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 160.

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) or Midnight (MN) controls.

# Dimmers, fan and fan/light controls

# Remote control digital fade dimmers



- Tap on to favorite level; tap off
- Touch rocker to adjust light level
- Tap twice for full on
- Press, hold and release for gradual fade-to-off
- · Provides true dimming from each location (with companion dimmers)

#### **Digital fan only controls** (with IR remote)



- Multi-location, fan only
- · Controls up to four fans
- One canopy module included, order one canopy module (CM-FQ1) for each additional fan controlled
- 7-quiet fan speeds, plus off
- Designed to prevent motor hum

#### Fan/light controls



#### **Dimmer** (top)

- Tap on to favorite light level; tap off
- Tap twice for full on
- · Touch rocker to adjust light level

#### Fan control (bottom)

- Tap on to favorite fan speed; tap off
- · Touch rocker to adjust light level or fan speed
- 7-quiet fan speeds, plus off provide enhanced comfort
- Designed to prevent motor hum

# Companion dimmers, fan and fan/light controls

### **Companion dimmers**



 For true multi-location dimming from every location, use up to nine companion dimmers with one Maestro IR multi-location dimmer

#### **Companion fan controls**



· For use with multi-location control, use up to two companion fan controls with one Maestro IR digital fan control

#### Companion fan/light controls



· For true multi-location dimming, use up to two companion controls with one Maestro IR multi-location fan/light control

#### **Companion devices**

### **IR** remote control



- Press and hold top silver button to save your favorite light setting; press silver button to recall favorite light setting
- Works with most learning remote controls
- IR frequency is 40 kHz
- IR controls must be within 30ft line-of-sight to IR receiver
- Touch rocker to adjust light level
- · Batteries included

#### IR remote control for fan/light



- Press and hold top silver button to save your favorite light setting; press silver button to recall favorite light setting
- Press and hold bottom silver button to save your favorite fan setting; press silver button to recall favorite fan setting
- IR controls must be within 30ft line-of-sight to IR receiver
- Touch rocker to adjust light level or fan speed
- · Batteries included

#### Fan only IR remote control



- Press and hold silver button to save fan setting
- Press silver button to recall favorite fan setting
- IR controls must be within 30ft line-of-sight to IR receiver
- · Touch rocker to adjust fan speed
- · Batteries included

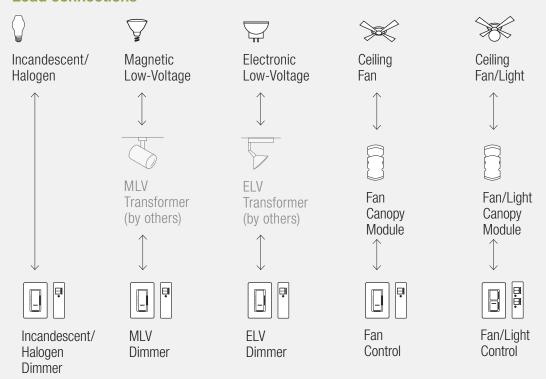
#### Canopy module (fan-mounted)



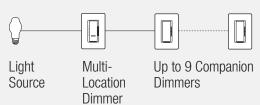
- For use only in multi-fan applications with MIR-FQ4FMT or MIR-FQ4FM-
- Order one canopy module for each additional fan controlled

#### **Connections overview**

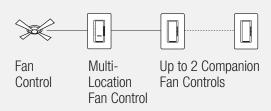
#### Load connections\*



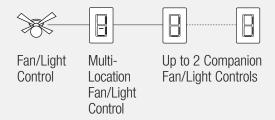
# **Control types** (for 2 or more locations) Dim from multiple-locations (up to 10)



#### Fan control from up to 3 locations



#### Fan/light control from up to 3 locations



\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

# 

## Remote control digital fade dimmers

Single-pole	MIR-600- <u>CC</u> 1
120V 600W	
Single-pole	MIR-1000- <u>CC</u> 1
120V 1000W	
Multi-location	MIR-600M- <u>CC</u> 1
120V 600W	
Multi-location	MIR-1000M- <u>CC</u> 1
120V 1000W	
120V 600W Multi-location	

#### Dimmers with IR remote controls

Single-pole	MIR-600T- <b>CC</b> 1
120V 600W	
Single-pole	MIR-1000T- <u>CC</u> 1
120V 1000W	
Multi-location	MIR-600MT- <b>CC</b> 1
120V 600W	
Multi-location	MIR-1000MT- <u>CC</u> 1
120V 1000W	

# Wallplate sold separately.

#### Dimmer, IR remote control and wallplate

Single-pole	MIR-600THW- <u>CC</u> <sup>3</sup>
120V 600W	

# Multi-location dimmer, IR remote control, companion dimmer and wallplates

Multi-location	MIR-603THW- <u>CC</u> 3
120V 600W	

# **▼** Magnetic low-voltage dimmers\*\*

#### Remote control digital fade dimmers

Single-pole	MIRLV-600- <u>CC</u> 1
120V 600VA (450W)	
Single-pole	MIRLV-1000- <u>CC</u> 1
120 V 1000 VA (800 W)	
Multi-location	MIRLV-600M- <u>CC</u> 1
120V 600VA (450W)	
Multi-location	MIRLV-1000M- <u>CC</u> 1
120V 1000VA (800W)	

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

# **□** Electronic low-voltage dimmers\*

## Remote control digital fade dimmers

Single-pole	MIRELV-600-CC1
120V 600W	17111 1227 000 <u>90</u>
Multi-location	MIRELV-600M-CC1
120V 600W	<u>22</u>

Only certain LED drivers are dimmable using an ELV dimmer, for more information, visit www.lutron.com/LED.

CC1: Gloss and Satin color codes, see pg. 61

CC3: Gloss color codes, see pg. 61
(Wallplates not included with above, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

#### Fan and fan/light control model numbers

#### **¥** Fan controls

## Digital fan control—quiet 7-speed

Multi-location/single-pole MIR-FQ4FM-<u>CC</u><sup>1</sup>

120 V up to 4 canopy modules (1 A each)

fan package

Multi-location/single-pole

MIR-FQ4FMT-<u>CC</u>1

120 V up to 4 canopy modules (1 A each)

All above include one wall-mounted fan control and one fan-mounted canopy module. Wallplates sold separately.

MIR-FQ4FMT- model includes IR remote control.

No derating required if ganged.

Models may be used with up to two companion fan/light controls (MA-ALFQ35-).

#### **Fan/light controls**

#### Fan/light control—quiet 7-speed

Single-pole MIR-LFQTHW-<u>CC</u><sup>1</sup>

120 V 300 W light (top)

1 canopy module for up to 1 A fan (bottom)

Multi-location MIR-LFQMT-CC¹

120 V 300 W light (top)

1 canopy module for up to 1 A fan (bottom)

All above include one wall-mounted fan/light control, one fan-mounted canopy module and one IR remote control.

Wallplates sold separately.

No derating required if ganged.

MIR-LFQTHW- model includes wallplate.

Multi-location model may be used with up to two companion fan/light controls (MA-ALFQ35-).

#### Canopy module (fan mounted)

Canopy module CM-FQ1

CC1: Gloss and Satin color codes, see pg. 61

**<u>CC</u>**<sup>3</sup>: Gloss color codes, see pg. 61

**CC**<sup>4</sup>: Satin color codes, see pg. 61

(Wallplates not included with above, order separately, see pg. 160)

# Companion dimmer, fan, fan/light and IR control model numbers

### **Companion controls**

#### Companion dimmer

Companion dimmer MA-R-<u>CC</u><sup>3</sup>
120 V

Companion dimmer MSC-AD-<u>CC</u><sup>4</sup>
120 V

No derating required if ganged.

#### Companion fan control

Companion fan control MA-AFQ4-<u>CC</u><sup>1</sup> 120 V

Use up to a maximum of two wall-mounted companion fan controls (MIR-FQ4FMT- or MIR-FQ4FM-) for multi-location control.

No derating required if ganged.

#### Companion fan/light control

Companion fan/light control MA-ALFQ35-<u>CC</u><sup>1</sup>
No derating required if ganged.

#### IR remote controls

IR remote control MIR-ITFS-WH (light only)
IR remote control MIR-ITFS-F-WH (fan only)
IR remote control MIR-ITFS-LF-WH (fan/light)

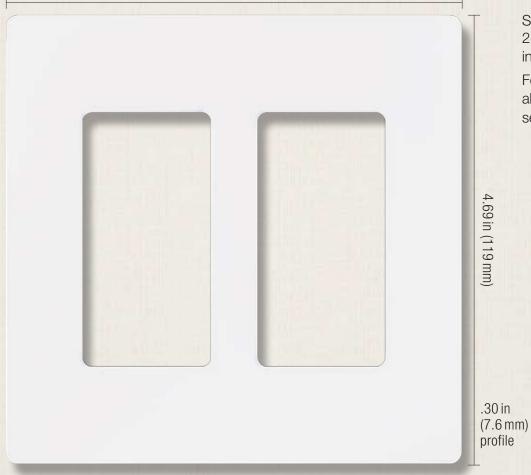
Must be within 30ft line-of-sight to IR receiver.

All models must be derated if ganged unless otherwise noted, see pg. 170.

### Accessories

# **Wallplates**

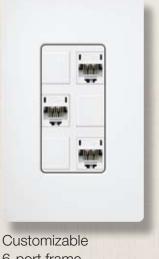
4.75 in (121 mm)



Shown actual size: 2-gang Claro® wallplate in White (WH). For more information about Designer wallplates, see pg. 160.

#### **Coordinated electrical devices**







For more information about coordinated Designer electrical devices, see pg. 163.

GFCI receptacle

6-port frame



Shown actual size: Maestro Wireless dimmer and 1-gang Claro wallplate in White (WH), with a Pico wireless control in White/Gray (WG).

Shown actual size: Pico wireless control in White/Gray (WG), W: 1.25 in (31.75 mm) x H: 2.625 in (66.68 mm) x D: .33 in (8 mm).

# **Product family features**

- Uses Lutron's Clear Connect™ Radio Frequency (RF) Technology which provides reliable RF communication
- Typical range of Pico™ wireless control is 100 ft line-of-sight, 30 ft through walls and floors
- · True multi-location dimming from every location
- · Tap on to favorite level; tap off; tap twice for full on
- · Touch rocker to adjust light level
- · Delayed off provides light as you exit the room
- Line frequency compensation maintains stable light levels, despite power line frequency and voltage variations
- Combine devices to create a system of up to ten wireless devices, dimmers, switches, sensors and/or wireless controllers
- · Mechanical air-gap to disconnect load power
- · 100% factory tested
- · Battery included with wireless controllers
- (7.6 mm) Coordinating Claro®, Satin Colors® and Stainless Steel profile wallplates only available separately
  - · Custom engraving available for wallplates, see pg. 155

#### **Control types**

Single-pole (one location)

Multi-location dimming (up to ten locations)

i on the location dimming with the location dimming (up to ten locations)

# **Direct load type compatibility**

Magnetic low-voltage lighting

Fluorescent lighting

LED lighting

# Load type requiring load interface

☐ Electronic low-voltage lighting

Lighting load interfaces may be applicable for some additional load type, voltage and capacity combinations.
For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: MRF2-600M-**PD**) Gloss finishes\*



#### Satin finishes\*



<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 160.

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) or Midnight (MN) controls.

# Dimmers, switches and companion dimmers/switches

#### **Wireless dimmers**



- · Tap on to favorite level; tap off
- · Tap twice for full on
- Press, hold and release for delayed fade-to-off
- · Touch rocker to adjust light level
- Provides true dimming from each location (with companion dimmers)

#### **Companion dimmers**



- For use with multi-location dimmers only, use up to nine companion dimmers with only one Maestro Wireless multi-location dimmer
- Provides true dimming from every location

#### Wireless switches



- · Tap switch on/off
- For multi-location switching, use Maestro Wireless® switch with Maestro companion switches

#### **Companion switches**



 For use with multi-location switches only, use up to nine Maestro Wireless companion switches with one Maestro Wireless multi-location switch

# Radio Powr Savr™ wireless occupancy/vacancy sensors



- Automatically turns lights on and/ or off based on space occupancy
- Uses Lutron's reliable Clear Connect™ Radio Frequency (RF) Technology
- Eliminates power pack and wiring expense
- Wall controls remain fully operable during automatic shut-off by sensor
- Battery included (10 year battery life)
- · See pg. 146 for further details

#### Radio Powr Savr™ wireless daylight sensors



- Automatically adjusts electric lighting levels based on amount of daylight entering a space
- Uses Lutron's reliable Clear Connect™ Radio Frequency (RF) Technology
- Battery included (10 year battery life)
- See pg. 146 for further details

#### Plug-in wireless lamp dimmers



- For use with table and floor lamps only
- Easy to install, requires no wiring or tools
- Cord is 6ft (1.8 m) long

#### Plug-in wireless modules



- Dimming module designed to control table and floor lamps
- Cord is 2ft (0.61 m) long

#### Wireless controls and accessories

# Pico™ wireless controls (3-button with raise/lower)



- · Recalls favorite light levels for up to nine dimmers, plus on/off and adjust for fine tuning of light levels
- · "On," "Adjust," "Preset" and "Off" functions from a range of up to 100ft
- · Can be a wall-mount, tabletop, car visor or handheld control
- Surface mount and car visor clip included
- · Battery included (10 year battery life)

#### **Available finishes**

Use **BOLD** color code in model number (Example: MRF2-3BRL-**BL**)

For use with 3-button with raise/lower, 3-button and 2-button models.

Gloss finishes







Liaht Almond



Almond



Ivorv

BL

Black

# Pico wireless controls (3-button)



- · "On," "Preset" and "Off" functions from a range of up to 100ft
- · Can be a wall-mount, tabletop, car visor or handheld control
- Surface mount and car visor clip included
- Battery included (10 year battery life)

#### **Wallplates**



- · Use Claro® wallplates for a wall-mounted application, see pg. 160 for colors
- · Surface mount at any location (no wallbox required)

# Pico wireless controls (2-button)



- · Simplified all on and off buttons that are easy to understand
- · Can be a wall-mount, tabletop, car visor or handheld control
- · Surface mount and car visor clip included
- Battery included (10 year battery life)

#### **Pedestals**

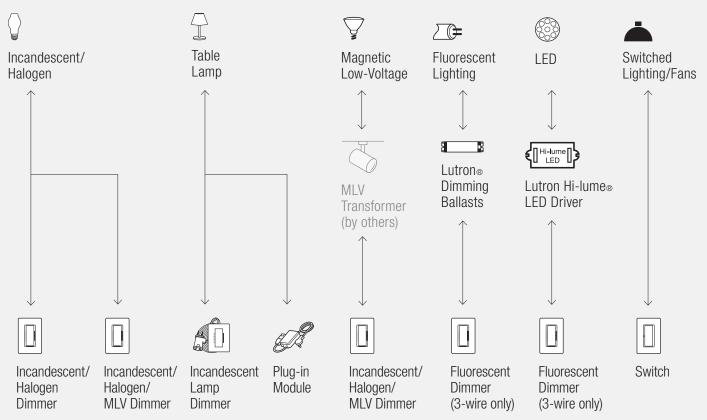


- The pedestal is available in a single or dual configuration for using the Pico as a tabletop control
- Available in White (WH) or Black (BL)



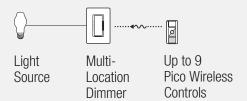
#### **Connections overview**

#### Load connections\*



# **Control types** (for 2 or more locations)

Dim from multiple-locations (up to 10)



#### **Pico mounting options**



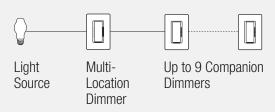




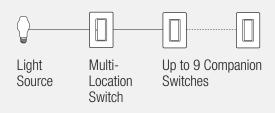


**Tabletop Control** (Single or Dual Mount Pedestal)

#### Dim from multiple-locations (up to 10)



#### Switch from multiple-locations (up to 10)



For more information on ballasts, visit www.lutron.com/ballasts. For more information on LED drivers, visit www.lutron.com/LED.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

#### Dimmer and lamp dimmer model numbers

# 

#### Digital fade dimmers<sup>†</sup>

Multi-location/single-pole 120V 600W

MRF2-600M-CC1

# 

# Magnetic low-voltage dimmers

#### Digital fade dimmer<sup>†</sup>

Multi-location/single-pole 120V 600W/VA

MRF2-6MLV-CC1

#### Digital fade dimmers—specification grade

Multi-location/single-pole\*†

MRF2-6ND-120-CC1

120V 600W/VA

Multi-location/single-pole<sup>†</sup> MRF2-10D-120-**CC**<sup>1</sup>

120V 1000W/VA

The stated W (Watt) rating is the maximum incandescent lamp load. Ratings for MLV loads represent the maximum of the total lamp wattage plus MLV transformer loss (typically 20%).

#### □ 3-wire fluorescent dimmers\*

#### Digital fade dimmer

MRF2-F6AN-DV-CC1 Multi-location/single-pole 120/277V 6A

For use with Hi-lume®, Hi-lume® Compact SE, Hi-lume® 3D, Eco-10®, EcoSystem® ballasts.

Also compatible with Hi-lume® LED driver.

# Hi-lume LED drivers: 3-wire fluorescent dimmers\*

#### Digital fade dimmer

Multi-location/single-pole MRF2-F6AN-DV-CC1 120/277V 6A

For use with Hi-lume LED driver only.

For more information on Hi-lume LED drivers, visit www.lutron.com/HilumeLED.

Low-end trim available via advanced programming.

#### Plug-in lamp dimmer and plug-in module model numbers

# Telug-in wireless lamp dimmer

#### Plug-in lamp dimmer

120V 300W MRF2-3LD-**EE**4

Rated for: incandescent/halogen.

# $\Upsilon$ Plug-in wireless dimming and switching modules

#### Dimming/switching plug-in module

1 receptacle MRF2-3PD-1-**EE**4 120V 300W 3 receptacles MRF2-3PD-3-**EE**4 120V 300W

10 Watt minimum load.

Rated for: incandescent/halogen and magnetic low-voltage.

CC1: Gloss and Satin color codes, see pg. 69 (Wallplates not included, order separately, see pg. 160)

**EE**<sup>4</sup>: Available in White (WH) and Black (BL)

All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection. †Minimum load is 50W/VA.

#### Switch model numbers

### **▲** Switches

#### Digital switch\*

Multi-location/single-pole MRF2-6ANS-<u>CC</u><sup>1</sup> 120 V 6 A light or 3 A fan

Rated for: incandescent/halogen, magnetic low-voltage, electronic low-voltage, non-dim fluorescent ballasts, general purpose fans and most non-dim LED drivers.

#### Switches-specification grade

Multi-location/single-pole\* MRF2-8ANS-120-<u>CC</u><sup>1</sup>
120 V 8 A light or 5.8 A fan
Multi-location/single-pole\*\* MRF2-8S-DV-<u>CC</u><sup>1</sup>

120V 8A light or 3A fan or 1/4HP motor 277V 8A light or 3A fan

Rated for: incandescent/halogen, magnetic low-voltage, electronic low-voltage, non-dim fluorescent ballasts, non-dim LED drivers, general purpose fans and most non-dim LED drivers.

**CC**<sup>1</sup>: Gloss and Satin color codes, see pg. 69

**CC**<sup>3</sup>: Gloss color codes, see pg. 69

<u>CC</u><sup>4</sup>: Satin color codes, see pg. 69 (Wallplates not included with above, order separately, see pg. 160)

**<u>EE</u>**<sup>3</sup>: Available in White (WH), Light Almond (LA) and Black (BL)

**EE**<sup>4</sup>: Available in White (WH) and Black (BL)

FF1: Pico color codes, see pg. 71

All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

\*\*Minimum load is 40W/VA.

# Companion controls, sensors, wireless controls and accessories model numbers

#### **Companion controls**

#### Companion dimmers

Companion dimmer	MA-R- <b>CC</b> <sup>3</sup>
120 V	MSC-AD- <u>CC</u> ⁴
Companion dimmer	MA-R-277- <u><b>CC</b></u> 3
277 V	MSC-AD-277- <b>CC</b> ⁴

No derating required if ganged.

#### Companion switches

Companion switch	MA-AS- <u>CC</u> 3
120 V	MSC-AS- <u>CC</u> ⁴
Companion switch	MA-AS-277- <u>CC</u> 3
277 V	MSC-AS-277- <u>CC</u> 4

No derating required if ganged.

#### **Sensors**

#### Radio Powr Savrm wireless sensors

Occupancy/vacancy sensor	LRF2-OCRB-P- <b>EE</b> 3
Vacancy sensor	LRF2-VCRB- <b>EE</b> 3

Communicates with up to nine dimmers and switches.

Add up to three sensors for maximum coverage.

For compatibility with other systems, visit

www.lutron.com/occsensors.

#### Radio Powr Savrm wireless daylight sensor

Daylight sensor	LRF2-DCRB-WH
2013119111001	

#### Wireless controls

#### Pico™ wireless controls

3-button with raise/lower	MRF2-3BRL-L- <b>FF</b> 1
3-button	MRF2-3B-L- <b>FF</b> 1
2-button	MRF2-2B-L- <b>FF</b> 1

#### **Accessories**

#### **Pedestals**

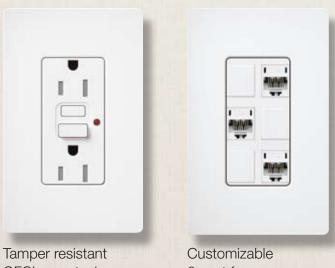
Single pedestal	L-PED1- <b>EE</b> 4
Double pedestal	L-PED2- <b>EE</b> 4

#### Pico faceplate adapter kit

Faceplate kit	PICO-FP-ADAPT

# **Wallplates** 4.75 in (121 mm) see pg. 160. 4.69 in (119 mm) .30 in $(7.6 \, \text{mm})$ profile

#### **Coordinated electrical devices**



GFCI receptacle

6-port frame



Cable jack

Shown actual size: 2-gang Claro® wallplate in White (WH). For more information about Designer wallplates,

> For more information about coordinated Designer electrical devices, see pg. 163.

#### 2.94 in (75 mm)



Shown actual size: Spacer System master control and 1-gang Claro wallplate in White (WH).

### **Product family features**

- · True multi-location dimming from every location
- Use the IR (infrared) remote control to adjust lights from anywhere in the room up to 30ft line-of-sight
- · 4-scene presets plus full on/off and raise/lower
- Tap dimmer on to favorite level; tap off; tap dimmer twice for full on
- Touch rocker to adjust light level
- · Delayed off provides light as you exit the room
- Line frequency compensation maintains stable light levels, despite power line frequency and voltage variations
- · IR (infrared) remote control convenience
- Install with standard wiring—replace existing switches or dimmers
- Mechanical air-gap to disconnect load power
- 100% factory tested
- Coordinating Claro® and Stainless Steel wallplates only available separately
- Custom engraving available for wallplates, see pg. 155

#### **Control types**

Single-pole (one location)

Multi-location dimming from every location (up to ten locations)

#### **Direct load type compatibility**

- Magnetic low-voltage lighting
- ☐ Electronic low-voltage lighting
- Fluorescent lighting
- LED lighting

#### Load type requiring load interface

Lighting load interfaces may be applicable for some load type, voltage and capacity combinations.
For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: SPS-5WC-<u>IV</u>) Gloss finishes\*



<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 160.

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) controls.

# Spacer System<sub>®</sub> dimmers and switches

#### Master controls

#### Wall mounted master controls



- Controls up to four dimmers of all load types
- 4-preset scenes, plus full on and all off
- Rocker for raise/lower master override
- IR receiver for remote control
- When using 120 V and 277 V products in the same backbox, use 600 V rated cable. Follow NEC®, see application note #133 (U.S. requirements for mixing 120 V and 277 V products in the same Wallbox) visit www.lutron.com/applicationnotes

#### **Dimmers and switches**

#### **Dimmers with IR receiver**



- · Tap on to favorite level; tap off
- · Touch rocker to adjust light level
- · Tap twice for full on
- Press, hold and release for delayed fade-to-off
- Provides true dimming from each location with companion dimmers

#### Plug-in lamp dimmers with integral IR receiver



- For use with table and floor lamps only
- Requires no wiring or tools
- Only available in Royal Plum (RP)

#### Wall mounted master controls with IR blasters



- · Same features as above
- Controls up to four dimmers per blaster
- Requires two travel wires between master control and IR blasters



#### **Digital switches**



- For multi-location Spacer System multi-location switch with Spacer System companion switches
- When using 120V and 277V products in the same backbox, use 600V rated cable. Follow NEC<sub>®</sub>, see application note #133 (U.S. requirements for mixing 120V and 277V products in the same Wallbox) visit

www.lutron.com/applicationnotes

# Spacer System<sub>®</sub> dimmers and switches

#### **Companion dimmers and switches**

# **Companion dimmers**



- For use with multi-location dimmers only, use up to nine companion dimmers with only one Spacer System multi-location dimmer
- Provides true dimming from each location (with master controls and multi-location dimmers)

#### **Companion controls**

#### **Favorite scene IR remote controls**



- Recalls preset light level for one scene, plus off and fine tuning of light levels
- 30ft line-of-sight to receiver
- · Only available in Royal Plum (RP)
- Batteries included

### **Companion switches**



 For use with multi-location switches, use up to nine Spacer System companion switches with one Spacer System multi-location switch

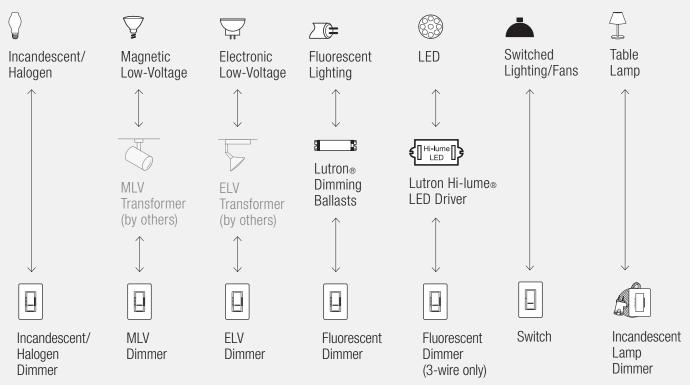
#### 4-scene IR remote controls



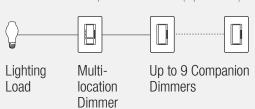
- Recalls preset light levels for four scenes plus off and fine tuning of light levels
- 50ft line-of-sight to receiver
- Only available in Royal Plum (RP)
- Batteries included

#### **Connections overview**

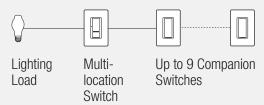
#### Load connections\*



#### **Control types** (for 2 or more locations) Dim from multiple-locations (up to 10)



# Switch from multiple-locations (up to 10)



#### Wall mounted master control with dimmers

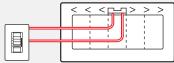
Rear View of Spacer System dimmers and SPS-5WC-ganged together.



SPS-5WC-emits signal that travels up to 4 dimmers in each direction.

#### Wall mounted master control with IR blasters

Rear View of 5 Spacer System dimmers ganged together.



Infrared Blaster emits signal that travels up to 2 dimmers in each direction.

For more information on ballasts, visit www.lutron.com/ballasts. For more information on LED drivers, visit www.lutron.com/LED.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

#### Master control and dimmer model numbers

#### Master controls\*

5-scene wall mounted master control

120V	SPS-5WC- <b>CC</b> 3
------	----------------------

Remote 5-scene wall mounted master control with two IR blasters

SPS-5WC- must be ganged in the same continuous backbox with Spacer System dimmers; its IR signal travels within the backbox to four dimmers in either direction. Remotemounted SPS-5WCR- talks to Spacer System dimmers via IR blasters clip to the dimmer backbox and emit IR signals for up to two dimmers in either direction.

# 

#### Dimmers with IR receiver\*\*

Single-location	SPS-600- <u><b>CC</b></u> <sup>3</sup>
120V 600W	
Single-location	SPS-1000- <u>CC</u> 3
120V 1000W	
Multi-location	SPS-600M- <u><b>CC</b></u> <sup>3</sup>
120V 600W	
Multi-location	SPS-1000M- <u>CC</u> 3
120V 1000W	

#### Dimmers with IR receiver and a wallplate\*\*

Single-pole 120V 600W	SPSW-600H- <u><b>CC</b></u> <sup>3</sup>
Multi-location 120V 600W	SPSW-603H- <u><b>CC</b></u> <sup>3</sup>

# Dimmer, IR remote control, companion dimmer and wallplate\*\*

Single-pole	SPSW-600-HTH- <u>CC</u> 3
120V 600W	
Multi-location	SPSW-603-HTH- <u>CC</u> 3
120V 600W	

#### Plug-in lamp dimmer model numbers

# Plug-in lamp dimmers

Plug-in lamp dimmer with integral IR receiver
Single-pole SPS-300LD-RP
120V 300W

Plug-in lamp dimmer with IR remote control

Single-pole SPS-300LD-HTH-RP 120 V 300 W

Plug-in lamp dimmer with IR receiver are available in Royal Plum (RP) only.

**CC**<sup>3</sup>: Gloss color codes, see pg. 77 (Wallplates not included, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

\*\*Minimum load 60 W/VA.

#### **∇** Magnetic low-voltage dimmers\*\*

#### Dimmers with IR receiver

SPSLV-600- <u>CC</u> 3
SPSLV-1000- <u>CC</u> 3
SPSLV-600M- <u>CC</u> 3
SPSLV-1000M- <u>CC</u> 3

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

#### **□** Electronic low-voltage dimmers\*

#### Dimmers with IR receiver

Single-location 120V 600W	SPSELV-600- <u>CC</u> 3
Multi-location 120V 600W	SPSELV-600M- <u>CC</u> 3

Only certain LED drivers are dimmable using an ELV dimmer, for more information visit www.lutron.com/LED.

#### **∠** 3-wire fluorescent dimmers\*

Dimmers	with	IR i	receivers
	** ! . !		100011010

Single-location	SPSF-6A- <u>CC</u> <sup>3</sup>
120V 6A	
20 ballasts	
Multi-location	SPSF-6AM- <u>CC</u> 3
120V 6A	
20 ballasts	
Single-location	SPSF-6A-277- <b>CC</b> <sup>3</sup>
277V 6A	
20 ballasts	
Multi-location	SPSF-6AM-277- <b>CC</b> <sup>3</sup>
277V 6A	
20 ballasts	

For use with Hi-lume®, Hi-lume® Compact SE, Hi-lume® 3D, Eco-10®, EcoSystem® ballasts. Also compatible with Hi-lume® LED driver. Fixed low-end trim (non-adjustable).

#### **□** Tu-Wire® fluorescent dimmer\*

#### Dimmer with IR receiver

Single-location	SPSFTU-5A- <u>CC</u> 3
120V 5A	

Also compatible with Advance Mark X ballasts, for further information visit

#### www.lutron.com/advance.

For information on use with Universal and OSRAM ballasts, contact Technical Support at 1.800.523.9466.

**CC**<sup>3</sup>: Gloss color codes, see pg. 77 (Wallplates not included, order separately, see pg. 160)

For more information on ballasts, visit **www.lutron.com/ballasts**.

All models must be derated if ganged unless otherwise noted, see pg. 170.

- \*Requires neutral wire connection.
- \*\*Minimum load 60 W/VA.

# ### Hi-lume® LED drivers: 3-wire fluorescent dimmers\*

#### Dimmers with IR receivers

Single-location	SI	PSF-6A- <u><b>CC</b></u> 3
120V 6A		
20 drivers		
Multi-location	SPS	SF-6AM- <u><b>CC</b></u> 3
120V 6A		
20 drivers		
Single-location	SPSF-	6A-277- <b>CC</b> 3
277V 6A		
20 drivers		
Multi-location	SPSF-6A	M-277- <b>CC</b> 3
277V 6A		
20 drivers		

For use with Hi-lume LED driver only.

Fixed low-end trim (non-adjustable).

#### Switch model numbers

#### ▲ Switches\*

#### Digital switches

0	
Single-location	SPSF-S6A- <u>CC</u> 3
120V 6A light	
Single-location	SPSF-S6A-277- <b>CC</b> 3
277V 6A light	
Multi-location	SPSF-S6AM- <u>CC</u> 3
120V 6A light	
Multi-location	SPSF-S6AM-277- <b>CC</b> 3
277V 6A light	

Rated for: incandescent/halogen, magnetic low-voltage, electronic low-voltage, non-dim fluorescent ballasts, general purpose fans and most non-dim LED\* drivers.

**CC**<sup>3</sup>: Gloss color codes, see pg. 77 (Wallplates not included, order separately, see pg. 160)

For more information on Hi-lume LED drivers, visit www.lutron.com/HilumeLED.

All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

#### **Companion control model numbers**

#### **Companion controls**

#### Companion dimmers

Companion dimmer SPS-AD-<u>CC</u><sup>3</sup>

120 V

Companion dimmer SPS-AD-277-<u>CC</u><sup>3</sup>

277 V

Use standard single-pole and 3-way wiring for easy installation.

No derating required if ganged.

#### Companion switches

Companion switch SPS-AS-**CC**<sup>3</sup>

120V

Companion switch SPS-AS-277-CC<sup>3</sup>

277 V

No derating required if ganged.

#### Remote and accessory model numbers

#### Infrared remote controls\*

#### Remotes

4-scene (50 ft line-of-sight) SPS-4IT-RP Favorite scene (30 ft line-of-sight) SPS-FSIT-RP

Remote controls available exclusively in Royal Plum (RP).

Remote controls are available for use with Spacer System®, GRAFIK Eye® 3100/3500/4100/4500 and GRAFIK Eye® QS.

#### **Accessory model numbers**

#### Remote control tether and holster

Tether and holster RCTH-GR

Remote control tether and holster available exclusively in Gray (GR).

**<u>CC</u>**<sup>3</sup>: Gloss color codes, see pg. 77 (Wallplates not included, order separately, see pg. 160)

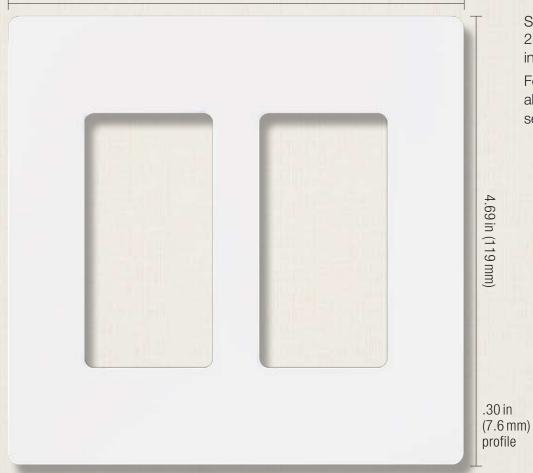
All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Remote controls work with all Spacer System dimmers, switches and lamp dimmers.

#### Accessories

# **Wallplates**

4.75 in (121 mm)



Shown actual size: 2-gang Claro® wallplate in White (WH). For more information about Designer wallplates, see pg. 160.

#### **Coordinated electrical devices**



Tamper resistant GFCI receptacle



6-port frame



For more information about coordinated Designer electrical devices, see pg. 163. 2.94 in (75 mm)



Shown actual size: Diva preset dimmer and 1-gang Claro® wallplate in White (WH).

#### **Product family features**

- Large paddle switch with a captive linear-slide dimmer for a standard designer wallplate opening
- · Full family of products for most lighting sources
- Preset dimmer
- Select lighter color models feature built-in soft-glow locator light
- Uses standard single-pole and 3-way wiring for easy installation
- eco-dim<sub>®</sub> model available
- 1000W preset dimmers have voltage compensation, which maintains stable light levels, despite line voltage variations
- · 100% factory tested
- Coordinating Claro®, Satin Colors® and Stainless Steel wallplates only available separately
- Custom engraving available for wallplates, see pg. 155

#### **Control types**

Single-pole (one location)

about 3-way or 4-way (two or more locations)

# **Direct load type compatibility**

- Incandescent/halogen lighting
- ▼ Magnetic low-voltage lighting
- ☐ Electronic low-voltage lighting
- □ Fluorescent lighting
- LED lighting
- Dimmable compact fluorescent
- Ceiling fans

# Load type requiring load interface

Neon/cold cathode lighting

Lighting load interfaces may be applicable for some additional load type, voltage and capacity combinations.

For additional information, see pg. 174.

#### **Available finishes**

Use  ${f BOLD}$  color code in model number (Example: DV-600P- ${f BR}$ )

Gloss finishes\*



#### Satin finishes\*



<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 160.

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) or Midnight (MN) controls.

#### **Dimmers**

#### **Dimmers**



- Paddle turns on/off
- Slide up to brighten; down to dim
- Locator light shines through paddle on select lighter colored models
- eco-dim<sub>®</sub> model guarantees at least 15% energy savings compared to a standard switch

#### Fan controls and switches

#### **Fan controls**



- · Paddle turns on/off
- Slide up to increase speed; down to decrease speed
- Three quiet fan speeds for increased comfort
- For use with only one ceiling paddle fan
- · Does not include locator light
- Designed to prevent motor hum

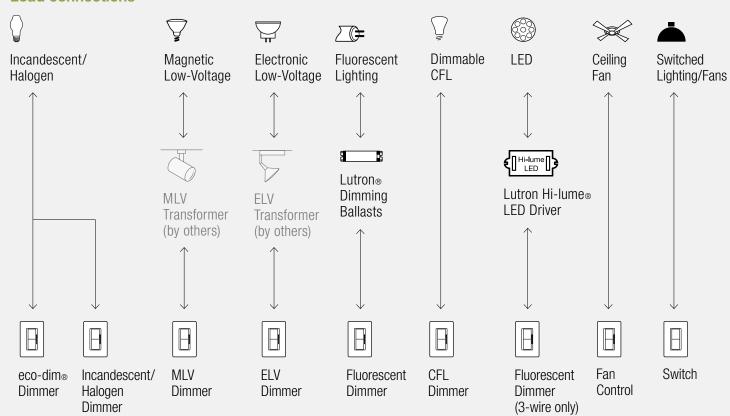
#### **Switches**



- · Paddle turns on/off
- · Use with any 15A load
- General purpose switching of all sources and motor loads
- · Available with locator light

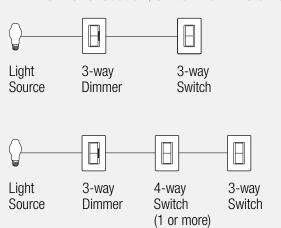
#### **Connections overview**

#### Load connections\*



#### **Control types** (for 2 or more locations)

Dim from one location, switch from the others



For more information on ballasts, visit **www.lutron.com/ballasts**. For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

# 

#### **Dimmers**

DV-600P- <b>CC</b> 3
DVSC-600P- <u>CC</u> 4
DV-10P- <b>CC</b> 3
DVSC-10P- <u>CC</u> 4
DV-603P- <b>CC</b> 3
DVSC-603P- <b>CC</b> 4
DV-103P- <u><b>CC</b></u> 3
DVSC-103P- <b>CC</b> 4

#### eco-dim® dimmer with locator light

3-way/single-pole	DV-603PG- <b>EE</b> <sup>2</sup>
120V 600W	

eco-dim model guarantees at least 15% energy savings compared to a standard switch.

#### **▽** Magnetic low-voltage dimmers

#### **Dimmers**

Single-pole	DVLV-600P- <b>CC</b> <sup>3</sup>
120V 600VA (450W)	DVSCLV-600P- <u>CC</u> 4
Single-pole	DVLV-10P- <u><b>CC</b></u> 3
120V 1000VA (800W)	DVSCLV-10P- <u>CC</u> 4
3-way	DVLV-603P- <b>CC</b> <sup>3</sup>
120V 600VA (450W)	DVSCLV-603P- <u>CC</u> 4
3-way	DVLV-103P- <u><b>CC</b></u> 3
120V 1000VA (800W)	DVSCLV-103P- <u>CC</u> 4

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

**CC**<sup>3</sup>: Gloss color codes, see pg. 87 **CC**<sup>4</sup>: Satin color codes, see pg. 87

**EE**<sup>2</sup>: Available in White (WH), Ivory (IV), Almond (AL) and Light Almond (LA) (Wallplates not included with above, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

#### **☐** Electronic low-voltage dimmers\*

#### **Dimmers**

Single-pole	DVELV-300P- <u>CC</u> <sup>3</sup>
120V 300W	DVSCELV-300P- <u>CC</u> 4
3-way	DVELV-303P- <b>CC</b> <sup>3</sup>
120V 300W	DVSCELV-303P- <u>CC</u> 4

Only certain LED drivers are dimmable using an ELV dimmer, visit **www.lutron.com/LED** for more information.

# Philips DIMMABLE Energy Saver CFLs (screw base)

#### **Dimmers**

3-way/single-pole	DVPDC-203P- <u><b>CC</b></u> <sup>3</sup>
200W	

UL listed for Philips screw base dimmable compact fluorescent lamps (CFL).

Use only with Philips models: EL/A R30 DIM, R40 DIM, PAR38 DIM.

No derating required if ganged.

#### **2 □ 3**-wire fluorescent dimmers\*

#### **Dimmers**

3-way/single-pole	DVF-103P- <u><b>CC</b></u> ³
120V 8A	DVSCF-103P- <u><b>CC</b></u> ⁴
3-way/single-pole	DVF-103P-277- <u><b>CC</b></u> <sup>3</sup>
277V 6A	DVSCF-103P-277- <b>CC⁴</b>

For use with Hi-lume®, Hi-lume® Compact SE, Hi-lume® 3D, Eco-10®, EcoSystem® ballasts.

Also compatible with Hi-lume<sub>®</sub> LED driver.

No derating required if ganged.

Adjustable low-end trim.

#### **Z**≠ 0-10 V dimmers

(current sink control)

#### **Dimmers**

Single-pole	DVTV- <u>CC</u> 3
30 mA max control current	
Single-pole	DVSCTV- <u>CC</u> 4
30 mA max control current	

Control provides dimming signal only. For dimming with on/off switching, **use with Lutron PowerPack**: PP-120H, PP-277H or PP-347H.

Consult ballast manufacturer for specific ballast current draw to determine maximum number of ballasts per control.

For compatible 0-10 V LED drivers by others, visit **www.lutron.com/LED**.

No derating required if ganged.

Adjustable high-end and low-end trim.

#### **Tu-Wire**® fluorescent dimmers

#### **Dimmers**

3-way/single-pole	DVFTU-5A3P- <u>CC</u> 3
120V 5A	DVSCFTU-5A3P-CC⁴

Also compatible with Advance Mark X ballasts, for further information visit

www.lutron.com/advance.

For information on use with Universal and OSRAM ballasts, contact Technical Support at 1.800.523.9466.

**CC**<sup>3</sup>: Gloss color codes, see pg. 87

**CC**<sup>4</sup>: Satin color codes, see pg. 87

(Wallplates not included with above, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170. For more information on Lutron ballasts, visit www.lutron.com/ballasts.

\*Requires neutral wire connection.

# Hi-lume® LED drivers: 3-wire fluorescent dimmers\*

#### **Dimmers**

3-way/single-pole DVF-103P-<u>CC</u><sup>3</sup>
120 V 8 A DVSCF-103P-<u>CC</u><sup>4</sup>
3-way/single-pole DVF-103P-277-<u>CC</u><sup>3</sup>
277 V 6 A DVSCF-103P-277-<u>CC</u><sup>4</sup>

Exclusively compatible with Hi-Lume LED driver For more information on Hi-lume LED drivers, visit www.lutron.com/HilumeLED.

No derating required if ganged.

Adjustable low-end trim.

# 0-10V LED dimmers: 0-10V dimmers

(current sink control)

#### **Dimmers**

Single-pole	DVTV- <u><b>CC</b></u> 3
30 mA max control current	
Single-pole	DVSCTV- <u><b>CC</b></u> ⁴
30 mA max control current	

Control provides dimming signal only. For dimming with on/off switching, **use with Lutron PowerPack**: PP-120H, PP-277H or PP-347H.

Consult ballast manufacturer for specific ballast current draw to determine maximum number of ballasts per control.

For compatible 0-10 V LED drivers by others, visit **www.lutron.com/LED**.

No derating required if ganged.

Adjustable high-end and low-end trim.

**<u>CC</u>**<sup>3</sup>: Gloss color codes, see pg. 87

**<u>CC</u>**<sup>4</sup>: Satin color codes, see pg. 87

**<u>EE</u><sup>2</sup>**: Only available in Almond (AL), Ivory (IV), Light Almond (LA) and White (WH)

**EE**<sup>10</sup>: Available in Biscuit (BI), Eggshell (ES), Goldstone (GS), Limestone (LS), Sea Glass (SG) and Snow (SW)

(Wallplates not included with above, order separately, see pg. 160)

#### Fan control and switch model numbers

#### **Fan controls**

#### Fan controls—quiet 3-speed

3-way/single-pole	DVFSQ-F- <u><b>CC</b></u> 3
120V 1.5A	DVSCFSQ-F- <u>CC</u> ⁴
3-way/single-pole	DVFSQ-F-HO- <u>CC</u> 3
120V 2.0A	

DVFSQ-F-HO model for use with specific fans such as Hunter Original Series.

Does not include built-in locator light.

No derating required if ganged.

#### **▲** Switches

#### General purpose switches

Single-pole	CA-1PSH- <u><b>CC</b></u> 3
120/277V 15A	SC-1PS- <u><b>CC</b></u> ⁴
3-way	CA-3PSH- <b>CC</b> ³
120/277V 15A	SC-3PS- <u><b>CC</b></u> ⁴
4-way	CA-4PSH- <u><b>CC</b></u> ³
120/277V 15A	SC-4PS- <u><b>CC</b></u> ⁴

#### General purpose switches with locator light

Single-pole	CA-1PSNL- <b>EE</b> <sup>2</sup>
120V 15A	SC-1PSNL- <u>EE</u> 10
3-way	CA-3PSNL- <b>EE</b> <sup>2</sup>
120V 15A	SC-3PSNL- <u>EE</u> 10
4-way	CA-4PSNL- <b>EE</b> <sup>2</sup>
120V 15A	SC-4PSNL- <u><b>EE</b></u> 10

No derating required if ganged.

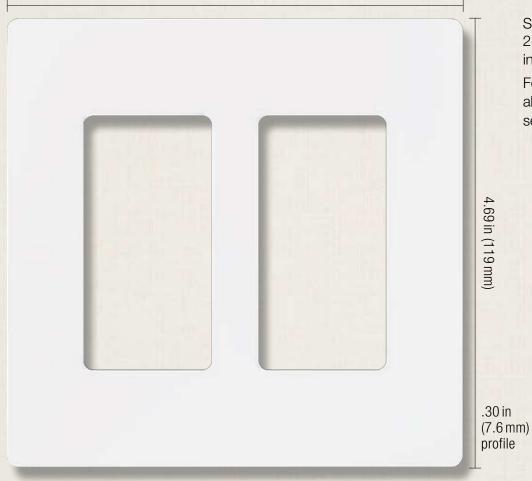
All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

#### Accessories

# **Wallplates**

4.75 in (121 mm)



Shown actual size: 2-gang Claro® wallplate in White (WH). For more information about Designer wallplates, see pg. 160.

# **Coordinated electrical devices**

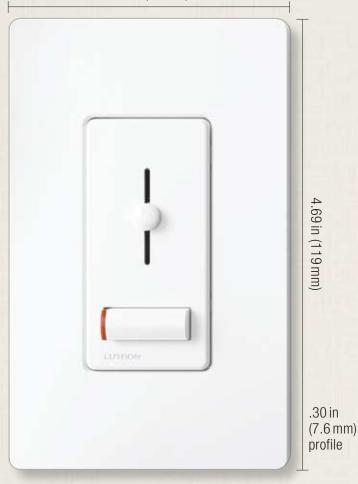






For more information about coordinated Designer electrical devices, see pg. 163.

#### 2.94 in (75 mm)



Shown actual size: Lyneo Lx dimmer and 1-gang Claro wallplate in White (WH)

#### **Product family features**

- Matching dimmers and switches
- On/off push button returns light to your favorite level and provides a large target
- · Round captive knob adjusts light to suit any activity
- · Amber locator light is easy to find in the dark
- Voltage compensation maintains stable light levels, despite line voltage variations
- · 100% factory tested
- Custom engraving available for wallplates, see pg. 155
- Coordinating Claro®, Satin Colors® and Stainless Steel wallplates only available separately

#### **Control types**

Single-pole (one location)

3-way or 4-way (two or more locations)

# **Direct load type compatibility**

- ☐ Electronic low-voltage lighting
- □ Fluorescent lighting
- LED lighting

# Load type requiring load interface

Neon/cold cathode lighting

Lighting load interfaces may be applicable for some additional load type, voltage and capacity combinations.

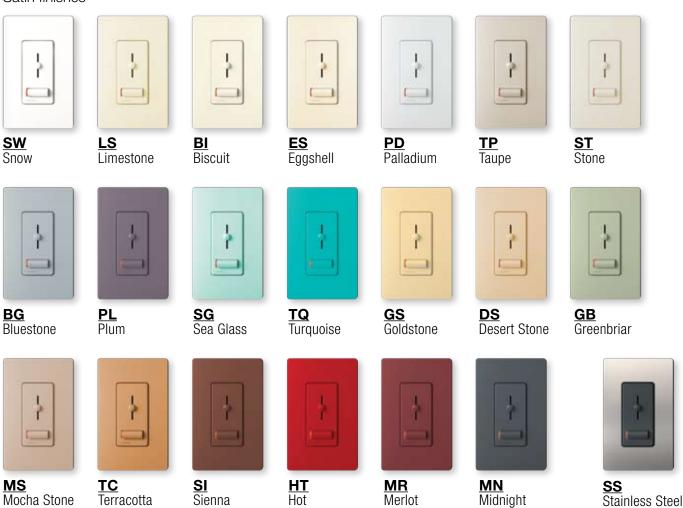
For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: LX-600PL-**GB**) Gloss finishes\*



#### Satin finishes\*



<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 160.

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) or Midnight (MN) controls.

#### **Dimmers and fan controls**

#### **Dimmers with locator light**



- · Push button turns on/off
- Slide up to brighten; down to dim
- Includes locator light

#### **Switches**

#### **Switches with locator light**



- Push button turns on/off
- Use with lighting loads or 1 HP motor loads (i.e., garbage disposals)
- · Includes locator light

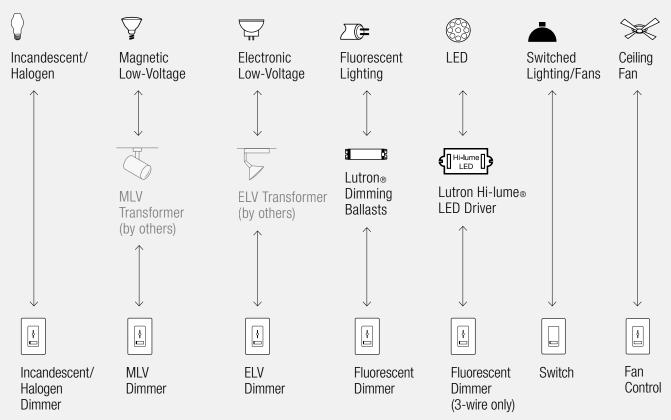
#### **Fan controls**



- · Push button turns on/off
- Slide up to increase speed; down to decrease speed
- 3-quiet fan speeds for increased comfort
- Designed to prevent motor hum

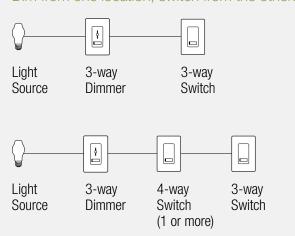
#### **Connections overview**

#### Load connections\*



#### Control types (for 2 or more locations)

Dim from one location, switch from the others



For more information on ballasts, visit **www.lutron.com/ballasts**. For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

# 

#### Preset dimmers with locator light

	9
Single-pole	LX-600PL- <u><b>CC</b></u> 1
120V 600W	
Single-pole	LX-10PL- <u><b>CC</b></u> 1
120V 1000W	
3-way	LX-603PL- <b>CC</b> 1
120V 600W	
3-way	LX-103PL- <u><b>CC</b></u> 1
120V 1000W	

#### **▼ Magnetic low-voltage dimmers**

#### Preset dimmers with locator light

Single-pole	LXLV-600PL- <u>CC</u> 1
120V 600VA (450W)	
Single-pole	LXLV-10PL- <u>CC</u> 1
120V 1000VA (800W)	
3-way	LXLV-603PL- <u>CC</u> 1
120V 600VA (450W)	
3-way	LXLV-103PL- <u>CC</u> 1
120V 1000VA (800W)	

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

# **□** Electronic low-voltage dimmers\*

#### Preset dimmers with locator light

Single-pole	LXELV-600PL- <u>CC</u> 1
120V 600W	
3-way	LXELV-603PL- <u>CC</u> 1
120V 600W	

Certain LED drivers are dimmable using an ELV dimmer, for more information, visit **www.lutron.com/LED**.

**CC**<sup>1</sup>: Gloss and Satin color codes, see pg. 95 (Wallplates not included, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

\*Requires neutral wire connection.

# Dimmer, fan control and switch model numbers

#### **2 3**-wire fluorescent dimmers\*

#### Preset dimmers with locator light

3-way/single-pole	LXF-103PL- <u>CC</u> 1
120V 8A	
3-way/single-pole	LXF-103PL-277- <u>CC</u> 1
277V 6A	

For use with Hi-lume®, Hi-lume® Compact SE, Hi-lume® 3D, Eco-10®, EcoSystem® ballasts.

Also compatible with Hi-lume<sub>®</sub> LED driver.

No derating required if ganged.

Adjustable low-end trim.

# W Hi-lume<sub>®</sub> LED drivers:3-wire fluorescent dimmers\*

# Preset dimmers with locator light

3-way/single-pole 120V 8A	LXF-103PL- <u>CC</u> 1
3-way/single-pole 277 V 6 A	LXF-103PL-277- <u>CC</u> †
	I ED III

For use with Hi-lume LED driver only.

No derating required if ganged.

Adjustable low-end trim.

#### **★ Fan control**

#### Fan controls—quiet 3-speed

3-way/single-pole ceiling fan	LXFSQ-F- <u>CC</u> 1
120V 1.5A	

No derating required if ganged.

#### Switches

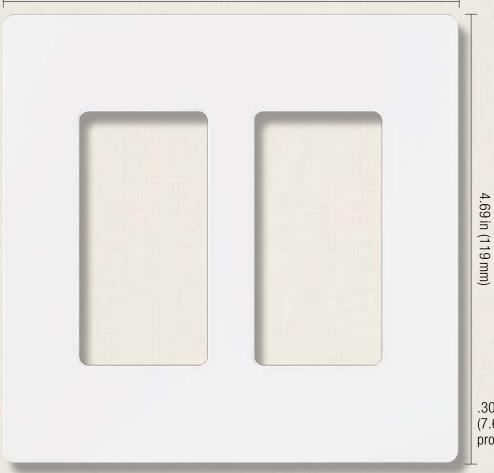
#### Switches with locator light

Single-pole non-dimmed lighting	LX-1PSL- <u>CC</u> 1	
120V 600W/VA (5A) or 1HP moto	r load	
3-way non-dimmed lighting	LX-3PSL- <u>CC</u> 1	
120 V 600 W/VA (5 A) or 1 HP motor load —		
1000 W/VA (8A) when used with 1000 W dimmer		
4-way non-dimmed lighting	LX-4PSL- <u>CC</u> 1	
120 V 600 W/VA (5 A) or 1 HP motor load —		
1000 W/VA (8 A) when used with 1	000W dimmer	
No derating required if ganged.		

#### Accessories

# **Wallplates**

4.75 in (121 mm)

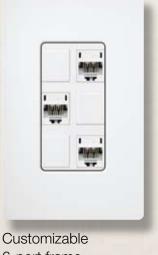


Shown actual size: 2-gang Claro® wallplate in White (WH). For more information about Designer wallplates, see pg. 160.

.30 in  $(7.6 \, \text{mm})$ profile

#### **Coordinated electrical devices**







For more information about coordinated Designer electrical devices, see pg. 163.

GFCI receptacle

6-port frame

2.94 in (75 mm)



Shown actual size: MeadowLark dimmer and 1-gang Claro wallplate in White (WH).

#### **Product family features**

- · Rocker switch returns light to your favorite level
- · Slide up to brighten; down to dim
- eco-minderm model: As the lights are dimmed, eco-minder LED transforms from red to green indicating 15% or more energy savings compared to a standard switch
- · Mechanical air-gap to disconnect load power
- · 100% factory tested
- Coordinating 1-gang Claro® wallplates only available separately
- Custom engraving available for wallplates, see pg. 155

### **Control types**

Single-pole (one location)

about 3-way or 4-way (two or more locations)

### **Direct load type compatibility**

Incandescent/halogen lighting

Lighting load interfaces are not compatible with this family.

#### **Available finishes**

Use **BOLD** color code in model number (Example: MK-600PI-<u>IV</u>) Gloss finishes\*



#### **Dimmers**

### Dimmers with on/off switch and locator light



- Rocker switch returns light to your favorite level
- · Slide up to brighten; down to dim
- Includes locator light
- eco-minder™ green LED demonstrates 15% or more energy savings compared to a standard switch

\*Coordinating wallplates only available separately. For wallplate information, see pg. 160.

#### **Connections overview**

#### Load connections\*

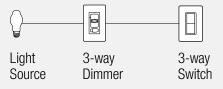


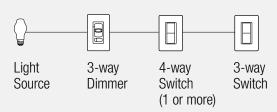
Incandescent/ Halogen



Incandescent/ Halogen Dimmer

# **Control types** (for 2 or more locations) Dim from one location, switch from the others





For more information on ballasts, visit www.lutron.com/ballasts.

For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

#### **Dimmer model numbers**



# Incandescent/halogen dimmers

eco-minder™ dimmers with on/off switch and locator light

Single-pole	MK-600PI- <u><b>CC</b></u> 3
120V 600W	
3-way	MK-603PI- <u><b>CC</b></u> ³
120V 600W	

eco-minder green LED demonstrates 15% or more energy savings compared to a standard switch.

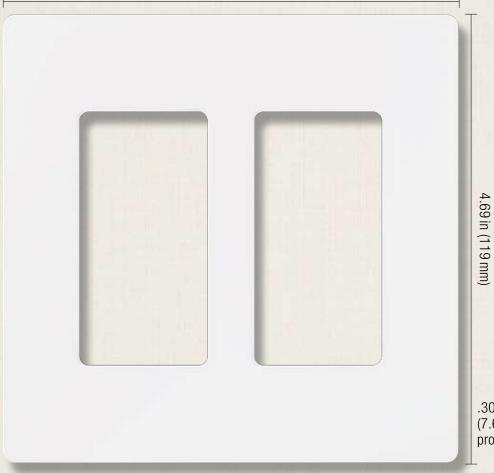
**CC**<sup>3</sup>: Gloss White (WH), Light Almond (LA), Almond (AL) and Ivory (IV), see pg. 101 (Wallplates not included, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

#### Accessories

# **Wallplates**

4.75 in (121 mm)

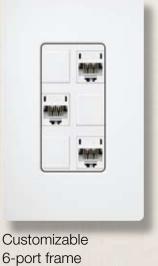


Shown actual size: 2-gang Claro® wallplate in White (WH). For more information about Designer wallplates, see pg. 160.

.30 in  $(7.6 \, \text{mm})$ profile

#### **Coordinated electrical devices**







For more information about coordinated Designer electrical devices, see pg. 163. 4.69 in (119 mm)

.30 in (7.6 mm) profile

2.94 in (75 mm)



Shown actual size: Skylark dimmer and 1-gang Claro wallplate in White (WH).

**Product family features** 

- Rocker switch returns light to your favorite light level
- Slide up to brighten, down to dim (adjust light to suit any activity)
- · eco-dim<sub>®</sub> model available
- 1000W preset dimmers have voltage compensation which maintains stable light levels, despite line voltage variations
- · 100% factory tested
- Coordinating Claro® and Stainless Steel wallplates only available separately
- Custom engraving available for wallplates, see pg. 155

### **Control types**

Single-pole (one location)

a-way or 4-way (two or more locations)

### **Direct load type compatibility**

- ▼ Magnetic low-voltage lighting
- ☐ Electronic low-voltage lighting
- □ Fluorescent lighting
- LED lighting
- Dimmable compact fluorescent
- Ceiling fans
- ★ Ceiling fan/lights

# Load type requiring load interface

Neon/cold cathode lighting

Lighting load interfaces may be applicable for some additional load type, voltage and capacity combinations.

For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: S-600P-**GR**) Gloss finishes\*



<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 160.

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) controls.

#### **Dimmers**

#### Slide-to-off dimmers



• Slide up to on/brighten; down to dim/off

# Dimmers with on/off switch and locator light



- · Rocker switch turns on/off
- Slide up to brighten; down to dim
- Includes amber locator light

# Dimmers with on/off switch



- · Rocker switch turns on/off
- Slide up to brighten; down to dim
- eco-dim<sub>®</sub> model guarantees at least 15% energy savings compared to a standard switch

# Skylark<sub>®</sub> dimmers and fan controls

# Fan and fan/light controls

#### Slide-to-off fan controls



- Slide up to on/increase speed; down to decrease/off
- 3-quiet fan speeds for increased comfort
- For use with only one ceiling paddle fan
- Quiet 3-speed designed to prevent motor hum

#### **Dual devices**

#### **Dual slide-to-off dimmers** (two loads)



# **Dimmers** (left/right)

 Slide up to on/brighten; down to dim/off

# Slide-to-off fan controls with on/off light switch



#### Fan control (top)

- Slide up to on/increase fan speed; down to decrease fan speed/off
- 3-quiet fan speeds for increased comfort
- For use with only one ceiling paddle fan
- Quiet 3-speed designed to prevent motor hum

#### **Switch** (bottom)

· Rocker switch turns light on/off

#### **Dual slide-to-off fan control and dimmer**



#### Fan control (left)

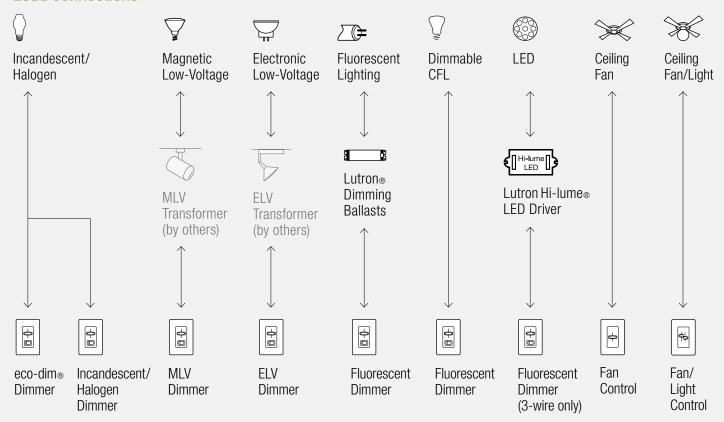
- Slide up to on/increase speed; down to decrease/off
- 3-quiet fan speeds for increased comfort
- Quiet 3-speed designed to prevent motor hum
- Fully variable available for use with multiple paddle or exhaust fans

#### **Dimmer** (right)

 Slide up to on/brighten; down to dim/off

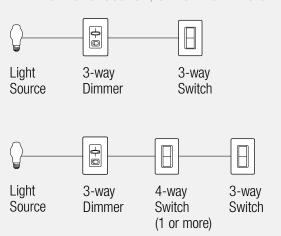
#### **Connections overview**

#### Load connections\*



# Control types (for 2 or more locations)

Dim from one location, switch from the others



For more information on ballasts, visit **www.lutron.com/ballasts**. For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

#### **Dimmer model numbers**

# 

#### Dimmers with on/off switch

Single-pole	S-600P- <b>CC</b> <sup>3</sup>
120V 600W	
Single-pole	S-10P- <u><b>CC</b></u> 3
120V 1000W	
3-way	S-603P- <b>CC</b> 3
120V 600W	
3-way	S-103P- <u><b>CC</b></u> 3
120V 1000W	

#### eco-dim® dimmer with on/off switch

3-way/single-pole	S-603PG- <u><b>EE</b></u> 2
120V 600W	

eco-dim model guarantees at least 15% energy savings compared to a standard switch.

#### Dimmers with on/off switch and locator light

Single-pole	S-600PNL- <u>CC</u>
120V 600W	
Single-pole	S-10PNL- <u><b>CC</b></u> 3
120V 1000W	
3-way	S-603PNL- <u><b>CC</b></u> 3
120V 600W	
3-way	S-103PNL- <u><b>CC</b></u> 3
120V 1000W	

#### Slide-to-off dimmers

Single-pole	S-600- <b>CC</b> <sup>3</sup>
120V 600W	2 222 <u>22</u>
Single-pole	S-1000- <b>CC</b> 3
120V 1000W	

For dual slide-to-off dimmers (two loads), see page 111.

# **▼** Magnetic low-voltage dimmers

#### Dimmers with on/off switch

Single-pole	SLV-600P- <b>CC</b> 3
120V 600VA (450W)	
3-way	SLV-603P- <b>CC</b> 3
120V 600VA (450W)	

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

# **□** Electronic low-voltage dimmers\*

# Dimmers with on/off switch

Single-pole	SELV-300P- <u><b>CC</b></u> 3
120V 300W	
3-way	SELV-303P- <b>CC</b> <sup>3</sup>
120V 300W	

Certain LED drivers are dimmable using an ELV dimmer, for more information, visit www.lutron.com/LED.

**CC**<sup>3</sup>: Gloss color codes, see pg. 105

**EE**<sup>2</sup>: Available in White (WH), Ivory (IV), Almond (AL) and Light Almond (LA) (Wallplates not included, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

#### **Dimmer model numbers**

#### **Z** 3-wire fluorescent dimmers\*

#### Dimmers with on/off switch

Single-pole	SF-10P- <b>CC</b> <sup>3</sup>
120V 8A	
Single-pole	SF-12P-277- <u><b>CC</b></u> 3
277V 6A	
3-way	SF-103P- <u><b>CC</b></u> 3
120V 8A	
3-way	SF-12P-277-3- <u><b>CC</b></u> 3
277V 6A	

For use with Hi-lume®, Hi-lume® Compact SE, Hi-lume® 3D, Eco-10®, EcoSystem® ballasts.

No derating required if ganged.

Adjustable low-end trim.

# 

#### Dimmers with on/off switch

Single-pole	SF-10P- <u><b>CC</b></u> <sup>3</sup>
120V 8A	
Single-pole	SF-12P-277- <u><b>CC</b></u> 3
277V 6A	
3-way	SF-103P- <u><b>CC</b></u> ³
120V 8A	
3-way	SF-12P-277-3- <u><b>CC</b></u> 3
277V 6A	

For use with Hi-lume LED driver only.

For more information on Hi-lume LED drivers, visit **www.lutron.com/HilumeLED**.

No derating required if ganged.

Adjustable low-end trim.

#### **Z** Tu-Wire fluorescent dimmers

#### Dimmers with on/off switch

3-way/single-pole	SFTU-5A3P- <b>CC</b> ³
120V 5A	

Also compatible with Advance Mark X ballasts, for further information, visit

#### www.lutron.com/advance.

For information on use with Universal and OSRAM ballasts, contact Technical Support at 1.800.523.9466.

# Philips Energy Saver DIMMABLE CFL dimmer (screw base)

#### Dimmer with on/off switch

3-way/single-pole	SPDC-203P- <b>CC</b> 3
120V 200W	

UL listed for Philips screw base dimmable compact fluorescent (CFL) lamps.

Use only with Philips models: EL/A R30 DIM, R40 DIM, PAR38 DIM.

No derating required if ganged.

**CC**<sup>3</sup>: Gloss color codes, see pg. 105 (Wallplates not included, order separately, see pg. 160)

For more information on ballasts, visit www.lutron.com/ballasts.

All models must be derated if ganged unless otherwise noted, see pg. 170.

#### Fan control model numbers

#### **Fan controls**

#### Slide-to-off fan controls—quiet 3-speed

Single-pole SFSQ-F-**CC**<sup>3</sup>
120 V 1.5 A
Single-pole SFSQ-F-HO-**CC**<sup>3</sup>
120 V 2.0 A

For use with only one ceiling paddle fan.

SFSQ-F-HO- for use with Hunter Original Series.

#### Slide-to-off fan control-fully variable

Single-pole SFS-5E-<u>CC</u><sup>3</sup> 120V 5A

For use with multiple ceiling paddle fans or exhaust fans.

# **★ Fan/light controls**

#### Fan control—quiet 3-speed and dimmer

Single-pole fan control S2-LFSQ-<u>CC</u><sup>3</sup>
120V 1.5A (left)
120V single-pole dimmer 300W (right)

Fan control-fully variable and dimmer

For use with only one ceiling paddle fan.

Single-pole fan control S2-LF-<u>CC</u><sup>3</sup>
120V 2.5A (left)
120V single-pole dimmer 300W (right)

# **※ Fan control/light switch**

# Fan control—quiet 3-speed and switch

For use with multiple ceiling paddle fans.

Single-pole fan control SFSQ-LF-**CC**<sup>3</sup>
120 V 1.5 A (top)
120 V single-pole switch 360 W (bottom)
(incandescent/halogen loads only)

<u>CC</u><sup>3</sup>: Gloss color codes, see pg. 105 (Wallplates not included, order separately, see pg. 160) All models must be derated if ganged unless otherwise noted, see pg. 170.

#### **Dual device model numbers**

# ⟨√⟩ Incandescent/halogen and Incandescent/halogen dimmers

Dual slide-to-off dimmers (two loads)

Single-pole S2-L-**CC**<sup>3</sup>
120 V 300 W light (left)
incandescent/halogen
120 V 300 W light (right)
incandescent/halogen

#### Replacement knob model numbers

#### Knobs

Single-pole	SK- <u><b>EE</b></u> ²
Standard knob	
Split knobs	contact customer service

**CC**<sup>3</sup>: Gloss color codes, see pg. 105 (Wallplates not included, order separately, see pg. 160)

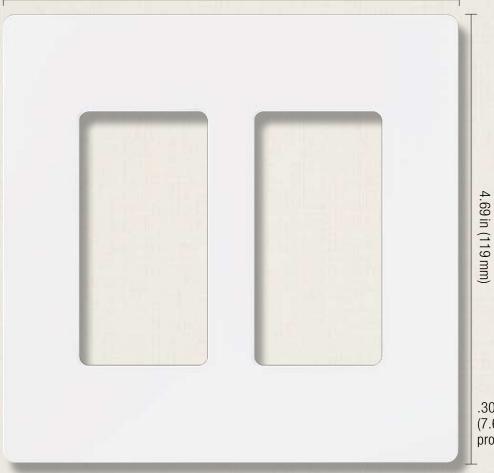
**<u>EE</u>**<sup>2</sup>: Available in White (WH), Ivory (IV), Almond (AL) and Light Almond (LA)

All models must be derated if ganged unless otherwise noted, see pg. 170.

#### Accessories

# **Wallplates**

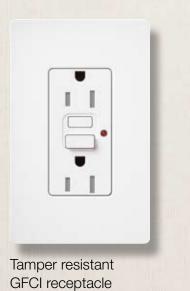
4.75 in (121 mm)

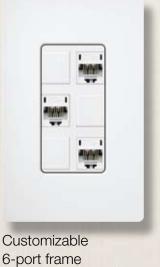


Shown actual size: 2-gang Claro® wallplate in White (WH). For more information about Designer wallplates, see pg. 160.

.30 in  $(7.6 \, \text{mm})$ profile

#### **Coordinated electrical devices**







For more information about coordinated Designer electrical devices, see pg. 163.



Shown actual size: Abella dimmer and 1-gang Fassada wallplate in White (WH).

# **Product family features**

- · True multi-location dimming from every location
- · Light fades on/off to preset level
- Delayed off provides light as you exit the room
- · Line frequency compensation maintains stable light levels, despite power line frequency and voltage variations
- · LEDs indicate light level and glow softly in the dark as a locator light
- Advanced programming allows customized functions
- 100% factory tested
- Coordinating Fassada® and Stainless Steel wallplates only available separately
- · Custom engraving available for wallplates, see pg. 155

# **Control types**

Single-pole (one location)

Multi-location (up to ten locations)

# Direct load type compatibility

Incandescent/halogen lighting

Magnetic low-voltage lighting

Lighting load interfaces are not compatible with this family.

#### **Available finishes**

Use **BOLD** color code in model number (Example: AB-600M-**LA**) Gloss finishes\*











WH White

**LA** Light Almond

<u>**AL**</u> Almond

<u>IV</u> Ivory

<u>**BL**</u> Black

<u>**SS**</u> Stainless Steel

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) controls.

<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 166.

# **Dimmers and companion dimmers**

# **Digital fade dimmers**



- Press on to favorite level; press off
- · Press twice for full on
- Press, hold and release for gradual fade-to-off
- · Touch buttons to adjust light level
- Advanced programming options available

#### **Switches and companion switches**

#### **Digital switches**



- Large, easy-to-use, one-touch button turns light on/off
- · LED indicates on/off

#### **Companion dimmers**



- For use with multi-location dimmers only—use up to nine companion dimmers with one Abella multi-location dimmer
- Provides true dimming from every location

## **Companion switches**



- Large, easy-to-use, one-touch button turns light on/off
- For use with multi-location switches only—use up to nine companion switches with one Abella® multi-location switch

# Advanced programming features include:

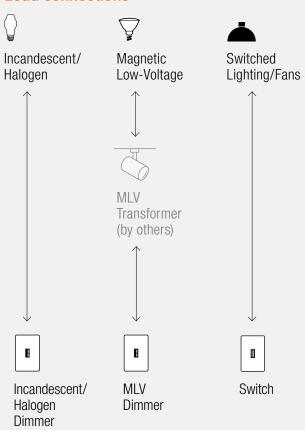


- · Adjusting fade on/fade off time.
- · Locked preset lighting level.

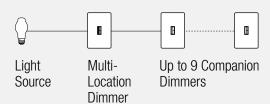
Abella advanced programming manual (Application Note #212) is available, visit **www.lutron.com/applicationnotes**.

#### **Connections overview**

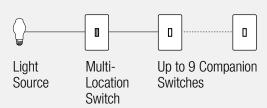
#### Load connections\*



# **Control types** (for 2 or more locations) Dim from multiple-locations (up to 10)



# Switch from multiple-locations (up to 10)



<sup>\*</sup>For illustration purposes only. Consult model number pages for specific voltage and capacity information.

#### **Dimmer model numbers**

# 

#### Digital fade dimmers

Multi-location/single-pole	AB-600M- <u><b>CC</b></u> 3
120V 600W	
Multi-location/single-pole	AB-1000M- <u><b>CC</b></u> <sup>3</sup>
120V 1000W	

# Magnetic low-voltage dimmers\*\*

#### Digital fade dimmers

Multi-location/single-pole	ABLV-600M- <u><b>CC</b></u> 3
120V 600VA (450W)	
Multi-location/single-pole	ABLV-1000M- <u><b>CC</b></u> 3
120V 1000VA (800W)	

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

# Switch and companion control model numbers

#### Switches

# Digital switch\*

Multi-location/single-pole	AB-S6AM- <u>CC</u> 3
120V 6A light 3A fan	

Rated for: incandescent/halogen, magnetic low-voltage, electronic low-voltage, non-dim fluorescent ballasts, general purpose fans and most non-dim LED drivers.

# **Companion controls**

#### Companion dimmer

120 V	/		AB-AD- <u>CC</u> 3

No derating required if ganged.

# Companion switch

No derating required if ganged.

**CC**<sup>3</sup>: Gloss color codes, see pg. 115 (Wallplates not included, order separately, see pg. 168)

All models must be derated if ganged unless otherwise noted, see pg. 170.

- \*Requires neutral wire connection.
- \*\*Minimum load is 40 W/VA.

www.lutron.com | 1.800.523.9466 | **LUTRON** 

# **Accessories**

# **Wallplates**

4.67 in (119 mm)

4.60 in (117 mm) .23 in  $(5.8 \, \text{mm})$ profile

Shown actual size: 2-gang Fassada® wallplate in White (WH). For more information about Traditional wallplates, see pg. 166.

#### **Coordinated electrical devices**







For more information about coordinated Designer electrical devices, see pg. 163.



Shown actual size: Ceana dimmer and 1-gang Fassada wallplate in White (WH).

# **Product family features**

- · Distinctive design enhances any décor
- · Large, curved button is easy to use
- Button and slider glow—easy to find in the dark
- · The locator light is best visible on the lighter colors
- 100% factory tested
- Coordinating Fassada and Stainless Steel wallplates only available separately
- · Custom engraving available for wallplates, see pg. 155

#### **Control types**

Single-pole (one location)

3-way or 4-way (two or more locations)

# **Direct load type compatibility**

Incandescent/halogen lighting

Magnetic low-voltage lighting

Lighting load interfaces are not compatible with this family.

#### **Available finishes**

Use **BOLD** color code in model number (Example: CN-600P-<u>AL</u>) Gloss finishes\*













WH White

**LA** Light Almond

AL Almond

<u>IV</u> Ivory

<u>**BL**</u> Black

<u>SS</u> Stainless Steel

#### **Dimmers and switches**

#### **Dimmers**



- Push button turns lights on/off
- Move slider up to brighten; down to dim
- · Includes locator light

#### **General purpose switches**



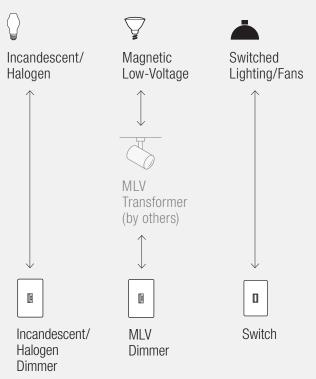
- · Push button turns load on/off
- · Use with any 15A load
- · General purpose switching
- · Includes locator light

<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 166.

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) controls.

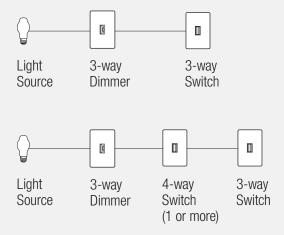
#### **Connections overview**

#### Load connections\*



#### **Control types**

Dim from one location, switch from others



- \*For illustration purposes only. Consult model number pages for specific voltage and capacity information.
- For more detailed wiring diagrams, see pg. 180

#### Dimmer and switch model numbers

# 

# Preset dimmers Single-pole CN-600P-CC³ 120 V 600 W Single-pole CN-10P-CC³ 120 V 1000 W 3-way CN-603P-CC³ 120 V 600 W 3-way CN-103P-CC³

# **▽** Magnetic low-voltage dimmers

#### Preset dimmers

120V 1000W

Single-pole	CNLV-600P- <b>CC</b> <sup>3</sup>
120V 600VA (450W)	
3-way	CNLV-603P- <u><b>CC</b></u> <sup>3</sup>
120 V 600 VA (450 W)	

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

#### Switches

#### General purpose switches—all load types

' '	<b>7</b> 1
Single-pole	CN-1PS- <u><b>CC</b></u> <sup>3</sup>
120V 15A	
Single-pole	CN-1PS-277- <u><b>CC</b></u> 3
277V 15A	
3-way	CN-3PS- <u><b>CC</b></u> 3
120V 15A	
3-way	CN-3PS-277- <u><b>CC</b></u> 3
277V 15A	

No derating required if ganged

**CC**<sup>3</sup>: Gloss color codes, see pg. 121 (Wallplates not included, order separately, see pg. 168)

 All models must be derated if ganged unless otherwise noted, see pg. 170

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# **Accessories**

# **Wallplates**

4.67 in (119 mm)

4.60 in (117 mm) .23 in  $(5.8 \, \text{mm})$ profile

Shown actual size: 2-gang Fassada® wallplate in White (WH). For more information about Traditional wallplates, see pg. 166.

#### **Coordinated electrical devices**







For more information about coordinated Designer electrical devices, see pg. 163.

GFCI receptacle

6-port frame

2.86 in (73 mm)



.23 in  $(5.8 \, \text{mm})$ profile

.60 in (117 mm)

Shown actual size: Ariadni dimmer and 1-gang Fassada wallplate in White (WH).

# **Product family features**

- Matches existing switches
- · Toggle-style switch turns light on to level set by slider
- · Slide adjusts light to your favorite level
- · eco-dim<sub>®</sub> model available
- 1000W preset dimmers have voltage compensation which maintains stable light levels, despite line voltage variations
- 100% factory tested
- Coordinating Fassada® and Stainless Steel wallplates only available separately
- · Custom engraving available for wallplates, see pg. 155

# **Control types**

- Single-pole (one location)
- 3-way or 4-way (two or more locations)

# **Direct load type compatibility**

- Incandescent/halogen lighting
- Magnetic low-voltage lighting
- Fluorescent lighting
- LED lighting
- Ceiling fans
- ★ Ceiling fan/lights

# Load type requiring load interface

- ☐ Electronic low-voltage lighting
- Neon/cold cathode lighting

Lighting load interfaces may be applicable for some additional load type, voltage and capacity combinations.

For additional information, see pg. 174.

#### **Available finishes**

Use **BOLD** color code in model number (Example: AY-600P-<u>BL</u>) Gloss finishes\*













WH White

**LA** Light Almond

**AL** Almond

<u>**IV**</u> Ivory

**BR** Brown

vn

<u>**BL**</u> Black



<u>**SS**</u> Stainless Steel

<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 166.

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) controls.

#### **Dimmers**

# **Dimmers**



- Toggle turns on/off
- Slide up to brighten; down to dim
- eco-dim<sub>®</sub> model guarantees at least 15% energy savings compared to a standard switch

# **Dimmers with locator light**



- Toggle turns lights on/off
- · Slide up to brighten; down to dim
- · Includes amber locator light
- Not available in black

# Fan and fan/light controls

#### **Fan controls**



- · Toggle turns lights on/off
- · Slide up to increase speed; down to decrease
- 3-quiet fan speeds for increased comfort
- · For use with only one ceiling paddle fan
- · Quiet 3-speed designed to prevent motor hum

# Fan/light controls



#### Fan control (left)

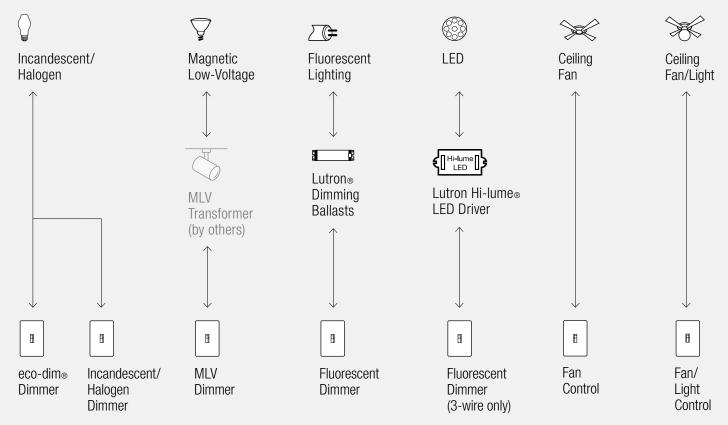
- Slide up to on/increase fan speed; down to decrease fan speed/off
- 3-quiet fan speeds for increased comfort
- · For use with only one ceiling paddle fan
- · Quiet 3-speed designed to prevent motor hum

#### **Dimmer** (right)

- Toggle turns light on/off
- Slide up to brighten; down to dim

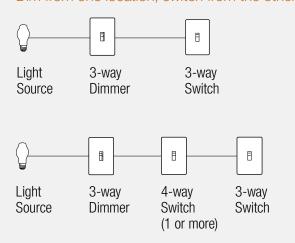
#### **Connections overview**

#### Load connections\*



#### **Control types** (for 2 or more locations)

Dim from one location, switch from the others



For more information on ballasts, visit **www.lutron.com/ballasts**. For more information on LED drivers, visit **www.lutron.com/LED**.

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

#### **Dimmer model numbers**

# 

#### Preset dimmers

AY-600P- <b>CC</b> <sup>3</sup>
AY-10P- <u><b>CC</b></u> 3
AY-603P- <b>CC</b> <sup>3</sup>
AY-103P- <u><b>CC</b></u> 3

#### Preset dimmers with locator light

Single-pole	AY-600PNL-CC <sup>3</sup>
120V 600W	_
Single-pole	AY-10PNL- <b>CC</b> 3
1000W	
3-way	AY-603PNL- <b>CC</b> 3
120V 600W	
3-way	AY-103PNL- <b>CC</b> 3
120V 1000W	

#### eco-dim<sub>®</sub> preset dimmer

3-way/single-pole	AY-603PG- <b>EE</b> 2
120V 600W	

eco-dim model guarantees at least 15% energy savings compared to a standard switch.

# **▼ Magnetic low-voltage dimmers**

#### Preset dimmers

Single-pole	AYLV-600P- <b>CC</b> 3
120V 600VA (450W)	
3-way	AYLV-603P- <b>CC</b> <sup>3</sup>
120V 600VA (450W)	

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

CC3: Gloss color codes, see pg. 125

**EE2**: Available in White (WH), Ivory (IV), Almond (AL) and Light Almond (LA)

(Wallplates not included, order separately, see pg. 168)

# Dimmer, fan and fan/light control model numbers

# **Z** 3-wire fluorescent dimmers\*

#### Preset dimmers

3-way/single-pole	AYF-103P- <b>CC</b> 3
120V 8A	
3-way/single-pole	AYF-103P-277- <b>CC</b> 3
277V 6A	

For use with Hi-lume, Hi-lume Compact SE, Hi-lume, 3D, Eco-10, EcoSystem, ballasts.

Also compatible with Hi-lume<sub>®</sub> LED driver.

No derating required if ganged.

Adjustable low-end trim.

# 

#### Preset dimmers

3-way/single-pole	AYF-103P- <b>CC</b> 3
120V 8A	
3-way/single-pole	AYF-103P-277- <u>CC</u> 3
277V 6A	

For use with Hi-lume LED driver only.

For more information on Hi-lume LED drivers,

visit www.lutron.com/HilumeLED.

No derating required if ganged.

Adjustable low-end trim.

# **≫** Fan control

#### Fan control—quiet 3-speed

3-way/single-pole	
120V 1.5A	AYFSQ-F- <u><b>CC</b></u> 3

#### **★ Fan/light control**

#### Fan control and dimmer—quiet 3-speed

Single-pole fan control	AY2-LFSQ- <u>CC</u> 3
120V 1.5A (left)	
Single-pole dimmer 120V 300W	
incandescent/halogen (right)	

All models must be derated if ganged unless otherwise noted, see pg. 170. For more information on ballasts, visit

www.lutron.com/ballasts.

# Accessories

# **Wallplates**

4.67 in (119 mm)

4.60 in (117 mm) .23 in  $(5.8 \, \text{mm})$ profile

Shown actual size: 2-gang Fassada® wallplate in White (WH). For more information about Traditional wallplates, see pg. 166.

#### **Coordinated electrical devices**







For more information about coordinated Designer electrical devices, see pg. 163.



# **Product family features**

- · Slide adjusts light to your desired level
- · 100% factory tested
- Coordinating Fassada® wallplates only available separately
- · Custom engraving available for wallplates, see pg. 155

# **Control types**

Single-pole (one location)

3-way or 4-way (two or more locations)

# **Direct load type compatibility**

Incandescent/halogen lighting

Magnetic low-voltage lighting

**Ceiling fans** 

Lighting load interfaces are not compatible with this family.

Shown actual size: Glyder dimmer and 1-gang Fassada wallplate in White (WH).

#### **Available finishes**

Use **BOLD** color code in model number (Example: GL-600P-<u>IV</u>) Gloss finishes\*





WH White

<u>**IV**</u> Ivory

#### **Dimmers and fan controls**

#### Dimmers with on/off switch



- Button turns on/off
- Slide up to brighten; down to dim

#### Slide-to-off fan controls



- Slide up to on/increase speed; down to decrease/off
- For use with multiple ceiling paddle fans or exhaust fans

#### Slide-to-off dimmers

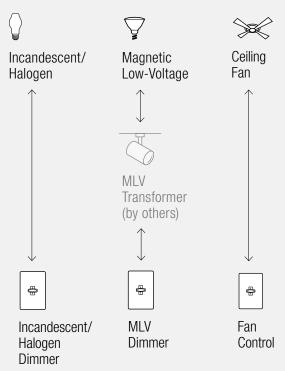


 Slide up to on/brighten; down to dim/off

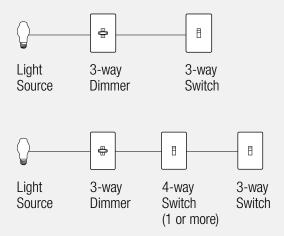
\*Coordinating wallplates only available separately. For wallplate information, see pg. 166.

#### **Connections overview**

#### Load connections\*



# **Control types** (for 2 or more locations) Dim from one location, switch from the others



\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

# Dimmer, fan control and replacement knob model numbers

# 

#### Dimmers with on/off switch

Single-pole 120V 600W	GL-600P- <u><b>CC</b></u> ³
Single-pole 120V 1000W	GL-10P- <u><b>CC</b></u> ³
3-way 120V 600W	GL-603P- <u><b>CC</b></u> ³
3-way 120V 1000W	GL-103P- <u><b>CC</b></u> ³
Slide-to-off dimmers	
Single-pole 120V 600W	GL-600- <u><b>CC</b></u> ³
Single-pole 120V 1000W	GL-1000- <u><b>CC</b></u> ³

# **▽** Magnetic low-voltage dimmers

#### Slide-to-off dimmer

Single-pole	GLV-600- <u>CC</u>
120V 600VA (450 W)	

The stated VA (Volt-Ampere) rating includes the magnetic transformer heat losses and the lamp load. The stated W (Watt) rating is the maximum lamp wattage based on assumed 20% transformer loss.

#### **★ Fan control**

#### Slide-to-off fan control-fully variable

Single-pole fan control	GFS-5E- <b>CC</b> 3
120V 5A	

#### Knobs

Slide-to-off	GK- <u><b>CC</b></u> 3
Preset	GKP- <u><b>CC</b></u> 3

**CC**<sup>3</sup>: Gloss White (WH) and Ivory (IV), see pg. 131 (Wallplates not included, order separately, see pg. 168)

All models must be derated if ganged unless otherwise noted, see pg. 170.

# Accessories

# **Wallplates**

4.67 in (119 mm)

4.60 in (117 mm) .23 in  $(5.8 \, \text{mm})$ profile

Shown actual size: 2-gang Fassada® wallplate in White (WH). For more information about Traditional wallplates, see pg. 166.

#### **Coordinated electrical devices**







For more information about coordinated Designer electrical devices, see pg. 163.

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Shown actual size: Rotary dimmer and 1-gang Fassada wallplate in White (WH).

# **Product family features**

- · The original electronic dimmer first patented in 1959
- · Easy-turn knob adjusts light to your favorite level
- · eco-dim<sub>®</sub> model available
- · 100% factory tested
- Coordinating Fassada® and Stainless Steel wallplates only available separately
- · Custom engraving available for wallplates, see pg. 155

# **Control types**

Single-pole (one location)

3-way or 4-way (two or more locations)

# **Direct load type compatibility**

Incandescent/halogen lighting

Ceiling fans

Lighting load interfaces are not compatible with this family.

#### **Available finishes**

Use **BOLD** color code in model number (Example: D-600P-<u>IV</u>) Gloss finishes\*





WH White

<u>IV</u> Ivory

#### **Dimmers and fan controls**

#### Dimmer with rotate on/off knob



 Rotate on/off; rotate to adjust light level

# Dimmers with push on/off knob and locator light



- Push on/off; rotate to adjust light level
- · Includes locator light

# Dimmers with push on/off knob



- Push on/off; rotate to adjust light level
- eco-dim<sub>®</sub> model guarantees at least 15% energy savings compared to a standard switch

# Fan controls with rotate on/off knob

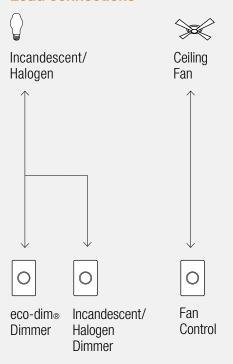


- Rotate on/off; rotate to adjust fan speed
- Quiet 3-speed available for use with one paddle fan
- Quiet 3-speed designed to prevent motor hum
- Fully variable available for use with multiple paddle or exhaust fans

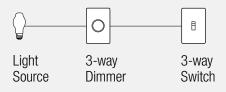
\*Coordinating wallplates only available separately. For wallplate information, see pg. 166.

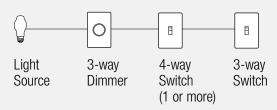
#### **Connections overview**

#### Load connections\*



# **Control types** (for 2 or more locations) Dim from one location, switch from the others





**CC**<sup>3</sup>: Gloss White (WH) and Ivory (IV), see pg. 135 (Wallplates not included, order separately, see pg. 168)

\*For illustration purposes only. Consult model number pages for specific voltage and capacity information.

# Dimmer, fan control and replacement knob model numbers

# Incandescent/halogen dimmers

Dimmers with	push	on/off	knob
--------------	------	--------	------

Single-pole	D-600P- <b>CC</b> 3
120V 600W	
3-way	D-603P- <b>CC</b> ³
120V 600W	

# Dimmers with push on/off knob and locator light

Single-pole 120V 600W	DNG-600P- <u><b>CC</b></u> 3
3-way	DNG-603P- <b>CC</b> 3
120V 600W	

#### Dimmer with rotate on/off knob

Single-pole	D-600R- <u><b>CC</b></u> 3
120V 600W	

#### eco-dim<sub>®</sub> dimmer with push on/off knob

3-way/single-pole	D-603PG- <u><b>CC</b></u> 3
120V 600W	

eco-dim model guarantees at least 15% energy savings compared to a standard switch.

#### **★ Fan controls**

# Fan controls with rotate on/off knobfully variable

FS-5F- <b>CC</b> 3
FS-5E- <u><b>CC</b></u> 3

# Fan control with rotate on/off knobquiet 3-speed

Single-pole	FSQ-2F- <u><b>CC</b></u> 3
120V 1.5A	

#### Knobs

Standard knob	RK- <u><b>CC</b></u> 3
3-speed fan control knob, White	280-324-01
3-speed fan control knob, Ivory	280-324-06

# Accessories

# **Wallplates**

4.67 in (119 mm)

4.60 in (117 mm) .23 in  $(5.8 \, \text{mm})$ profile

Shown actual size: 2-gang Fassada® wallplate in White (WH). For more information about Traditional wallplates, see pg. 166.

#### **Coordinated electrical devices**



GFCI receptacle



Customizable 6-port frame



For more information about coordinated Designer electrical devices, see pg. 163.

# Lamp dimmers | Credenza and Attaché



Shown actual size: Credenza lamp dimmer in White (WH).

Credenza lamp dimmer dimensions are 1.5 in (38 mm) x 3.10 in (79 mm).

#### **Available finishes**

Use **BOLD** color code in model number (Example: TT-300NLH-**BR**)

Gloss finishes



#### **Product family features**

- Convenient full range dimmers for table and floor lamps
- Use a standard light bulb instead of costly 3-level bulbs
- LED glows softly as a locator light (optional feature)
- Place Credenza dimmer on tabletop or connect the Attaché dimmer to the lamp cord
- For detailed information, see Application Notes #91 (Guide to Dimming Table Lamps) by visiting www.lutron.com/applicationnotes
- · Cord is 6ft (1.8m) long

#### **Direct load type compatibility**

Incandescent/halogen lighting

# Plug-in lamp dimmers are also available for:



Maestro Wireless<sub>®</sub> See pg. 70



Spacer System<sub>®</sub> IR See pg. 78

(Credenza only)

# Lamp dimmers | Credenza and Attaché

#### Lamp dimmers

# Credenza plug-in lamp dimmer with locator light



- Slide up to on/brighten; down to dim/off
- Includes red LED locator light
- Requires no wiring or tools

# Attaché on-cord lamp dimmer with locator light



- Slide up to on/brighten; down to dim/off
- · Attaches to lamp cord
- Includes red LED locator light
- Available in White (WH) and Brown (BR)

#### Incandescent/halogen

Single-pole 300W

TT-300NLH-**EE**<sup>5</sup>

# Incandescent/halogen

Single-pole 300W

LC-300NLH-**EE**<sup>8</sup>

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Credenza plug-in lamp dimmer



- Slide up to on/brighten; down to dim/off
- · Requires no wiring or tools

# Attaché on-cord lamp dimmer



- Slide up to on/brighten; down to dim/off
- Attaches to lamp cord
- Available in White (WH) and Brown (BR)

#### Incandescent/halogen

Single-pole TT-300H-**EE**<sup>5</sup> 300W

#### Incandescent/halogen

LC-300H-**EE**<sup>8</sup> Single-pole 300W

**EE**<sup>5</sup>: Available in White (WH), Brown (BR)

and Black (BL)

**EE**<sup>8</sup>: Available in White (WH), Brown (BR)

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2.94 in (75 mm)



Shown actual size: Maestro dimmer with occupancy/vacancy sensor and 1-gang Claro® wallplate in White (WH).

#### **Product family features**

- Available as a dimmer or switch with sensor
- Will turn lights on as you enter the space or off after the room is vacated
- Occupancy/vacancy (auto-on/auto-off or manual-on/auto-off) or vacancy only (manual-on/ auto-off) versions available
- Vacancy models meet California Title 24 Section 119(j) requirements
- Sensor must have unobstructed view and line-of-sight to room occupants
- Passive infrared motion detection with dependable Lutron XCT™ technology for fine motion detection
- 180° sensor field-of-view
- Up to 30ft x 30ft major motion and 20ft x 20ft minor motion coverage
- · Mechanical air-gap to disconnect load power
- Coordinating Claro®, Satin Colors® and Stainless Steel wallplates only available separately
- (7.6 mm) profile Engraving and custom colors available, for additional information, see pg. 155

# **Control types**

Single-pole (one location)

Multi-location (up to ten locations)

# Direct load type compatibility

Incandescent/halogen lighting

# Also available LOS wall occupancy sensors



# **Product family features**

- The LOS-S series of sensors offer a direct and quick replacement of wall switches for standalone line voltage switching of small spaces
- Lutron offers "M" models (LOS-SIR-M-WH and LOS-SIR-M-IV), which are manual-on and auto-off occupancy sensors. "M" models meet California Title 24 Section 119(j) energy code requirements.
- No power pack required
- LED test indicator
- 120/277 VAC dual voltage operation
- · For additional information, see pg. 143

#### **Available finishes**

Use **BOLD** color code in model number (Example: MS-OP600M-<u>MN</u>) Gloss finishes\*



#### Satin finishes\*



<sup>\*</sup>Coordinating wallplates only available separately. For wallplate information, see pg. 160.

Stainless Steel wallplate includes black plastic trim/adapter, visible from side. Match with separate Black (BL) or Midnight (MN) controls.

#### Maestro dimmers and switches with sensors

# Dimmers with occupancy/vacancy sensor



- Adjustable timeout —
   1, 3, 5, 15 or 30 minutes
- Occupancy/vacancy version can be easily programmed to work as vacancy (manual-on) sensor
- Optional off warning dims the lights by 50%, 30 seconds before the light turns off
- · High-low sensitivity adjustment
- Standard Maestro dimmer features: locked preset, fade-to-on and fade-to-off
- Works with up to nine companion dimmers (MA-R-)

#### **Dimmer model numbers**



Digital fade dimmer with occupancy/vacancy sensor

Multi-location/single-pole MS-OP600M-<u>CC</u><sup>1</sup> 120V 600W

#### Digital fade dimmer with vacancy sensor

Multi-location/single-pole MS-VP600M-<u>CC</u><sup>1</sup> 120V 600W

#### Switches with occupancy/vacancy sensor



- Adjustable timeout—
   1, 5, 15 or 30 minutes
- Occupancy/vacancy version can be easily programmed to work as vacancy (manual-on) sensor
- · High-low sensitivity adjustment
- 5 A switch controls: incandescent, halogen, MLV, ELV and non-dim fluorescent (neutral required)
- Works with up to nine companion switches (MA-AS-)

#### Switch model numbers

#### Switches\*

#### Switch with occupancy/vacancy sensor

Multi-location/single-pole MS-OPS5AM-<u>CC</u><sup>1</sup>
120V 5A lighting

#### Switch with vacancy sensor

Multi-location/single-pole MS-VPS5AM-<u>CC</u><sup>1</sup>
120V 5A lighting

Designed for use with permanently installed lighting loads.

**<u>CC</u>**<sup>1</sup>: Gloss and Satin color codes, see pg. 141 (Wallplates not included, order separately, see pg. 160)

All models must be derated if ganged unless otherwise noted, see pg. 170.

For more information on occupancy/vacancy sensors, visit www.lutron.com/occsensors.

- \*Requires neutral wire connection.
- \*\*Minimum load is 40 W/VA.

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#### LOS switches with sensors

#### Passive infrared manual-on residential\*



- Dual 120/277V operation
- · No minimum load requirement
- 180° field of view
- Adjustable time delay
- Available in White (WH) and Ivory (IV)

#### Passive infrared manual-on residential

120/277 V

LOS-SIR-M-**EE**9

M model conforms to residential California Title 24 Section 119(j) (manual on/auto off).

### Passive Infrared\*



- Dual 120/277 V operation
- Integral adjustable light level sensor
- No minimum load requirement
- 180° field of view
- Adjustable time delay
- Available in White (WH) and Ivory (IV)

#### Passive infrared

120/277 V

LOS-SIR-EE9

#### Passive infrared heavy-duty\*



- Dual 120/277 V operation
- Integral adjustable light level sensor
- No minimum load requirement
- 180° field of view
- · Adjustable time delay
- Available in White (WH)

#### Passive infrared manual-on residential

120/277 V

LOS-SIR-HD-WH 120/

HD model has heavy-duty lens to prevent damage.

#### Passive Infrared two circuit heavy-duty\*



- Dual 120/277V operation
- Integral adjustable light level sensor
- No minimum load requirement
- 180° field of view
- Adjustable time delay
- Available in White (WH)

#### Passive infrared

120/277 V

LOS-S2IR-HD-WH

S2IR-HD model has dual-level switching, allowing for two primary input circuits, each with independent switching.

**EE**9: Available in White (WH) and Ivory (IV)

\*Product requires ground connection.



Shown actual size: Radio Powr Savr wireless occupancy/vacancy sensor in White (WH)

#### **Product family features**

- Designed for conference rooms, copy rooms, small offices, classrooms, break rooms, restrooms and other spaces where automatic lighting shut-off is desirable
- Uses Lutron's Clear Connect™ Radio Frequency (RF) Technology which provides reliable wireless RF communication
- Dependable Lutron XCT™ Technology for fine motion detection
- · Eliminates power pack and wiring expense
- · Wall controls remain fully operable during automatic shut-off by sensor
- Vacancy models meet California Title 24 Section 119(j) requirements
- · Use up to three sensors per each compatible dimmer/switch for maximum coverage
- · One sensor can control up to 10 compatible dimmers/switches for spaces with additional zones of light
- · Coverage varies depending on ceiling height, sensors designed for 8-12ft (2.4-3.7 m) ceilings
- · Timeout Options include 5 minutes, 15 minutes and 30 minutes
- Battery included (10 year battery life)
- · No wiring required

#### Works with:



Maestro Wireless<sub>®</sub> dimmers

See pg. 70



Maestro Wireless switches

See pg. 70



Maestro **Wireless** lamp dimmers See pg. 70



Plug-in **Wireless** modules

See pg. 70

#### **Available finishes**

Use **BOLD** color code in model number (Example: LRF2-OCRB-P-**LA**) Matte finishes







WH White

**LA** Light Almond

BL Black

#### Occupancy/vacancy sensor



- Auto-on/auto-off, manual on/auto-off or auto-on low light/auto-off
- 360° field of view

#### Sensor model number

Occupancy/vacancy sensor LRF2-OCRB-P-<u>**EE**</u><sup>3</sup> Light Almond (LA) and Black (BL) have four week lead time.

#### Vacancy sensor



- Manual on/auto-off only
- Complies with California Title 24 requirements
- 360° field of view

#### Sensor model number

Vacancy sensor LRF2-VCRB-P-**EE**<sup>3</sup> Light Almond (LA) and Black (BL) have four week lead time.

Wireless occupancy/vacancy sensor coverage range		
Ceiling height Maximum room dimensions Square feet for complete floor coverage		Square feet
8ft (2.4m)	18 x 18ft (5.5 x 5.5 m)	324 ft² (30.2 m²)
9ft (2.7 m)	20 x 20 ft (6.1 x 6.1 m)	400 ft² (37.2 m²)
10ft (3.0 m)	22 x 22 ft (6.7 x 6.7 m)	484 ft² (44.9 m²)
12ft (3.7 m)	26 x 26ft (7.9 x 7.9 m)	676 ft² (62.4 m²)

**<u>EE</u>**<sup>3</sup>: Available in White (WH), Light Almond (LA) and Black (BL)

For larger spaces or additional coverage, use multiple sensors, up to three per dimmer/switch.

## Sensors | Radio Powr Savr™ wireless daylight sensors



Shown actual size: Radio Powr Savr wireless daylight sensor in White (WH).

#### **Product family features**

- Uses Lutron's Clear Connect™ Radio Frequency (RF) Technology which provides reliable wireless RF communication
- When sufficient daylight is available, system will decrease or turn off electric light; when insufficient daylight is available, system will increase electric light
- A dimmer/switch can communicate with only one daylight sensor
- One sensor can control up to 10 dimmer/switches
- Available exclusively in White (WH)
- Battery included (10 year battery life)
- · No wiring required

#### Works with:



Maestro Wireless® dimmers

See pg. 70



Maestro Wireless switches

See pg. 70



Plug-in Wireless modules

See pg. 70

### **Daylight sensor**



WH White

#### Sensor model number

Daylight sensor

#### Sensor placement

Determine the daylight sensor mounting location using the diagram below:

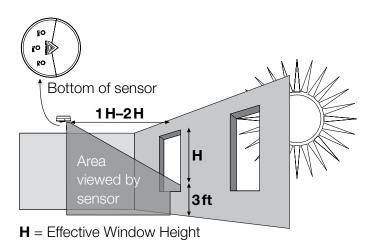
- Place the daylight sensor so the viewing area is centered on the nearest window at a distance from the window of one to two times the effective window height (H)
- The effective window height (H) starts at the window sill or 3 ft (1 m) up from the floor, whichever is higher, and ends at the top of the window

LRF2-DCRB-WH

- Do not position the daylight sensor in the well of a skylight or above indirect lighting fixtures
- For narrow areas where the daylight sensor cannot be placed 1 H–2 H from windows, place sensor near windows facing into space

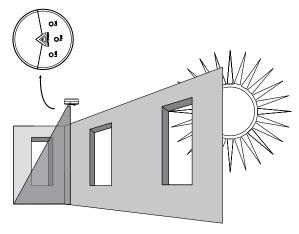
#### Location for average size areas

Arrow points towards the area viewed by the sensor (towards windows)

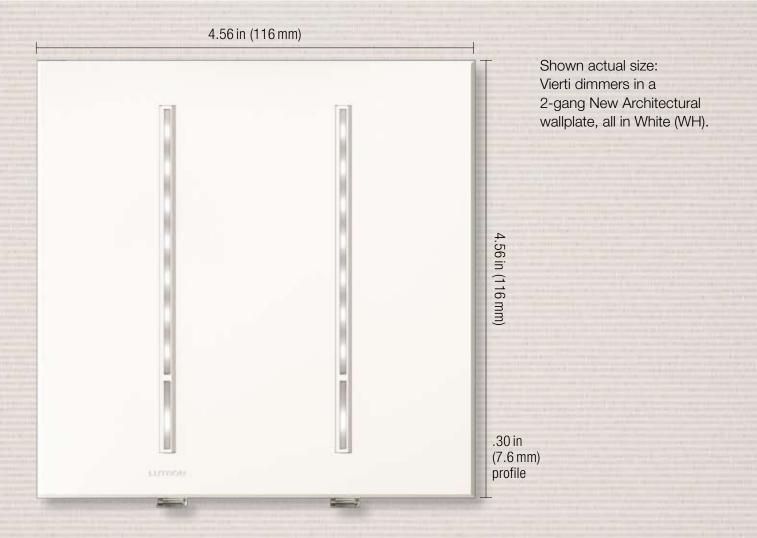


# Location for narrow areas (corridors, private offices)

Arrow points towards the area viewed by the sensor (away from window)



## Wallplates and accessories | New Architectural



#### **Product family features**

- Can be used in conjunction with the following dimmer(s) and switch(es): Vierti®
- All Lutron wallplates are screwless, seamless and have no visible hardware; the front plate securely snaps into the alignment adapter plate
- New Architectural wallplates are aesthetically matched to Architectural accessories to complete the look of any room
- Customize your New Architectural wallplate with engraving, contact customer service to get started at 1.888.LUTRON1
- Matte finish wallplates can be custom colored to perfectly match a paint color number, swatch or sample

#### **Ganging and derating**

- · New Architectural wallplates use standard ganging
- Requires fins to be removed from dimmers for proper spacing ("Fins Broken" ganging), see pg. 170
- May require derating (i.e., reduction of dimmer capacity due to fin removal), see Derating Tables, pg. 172

#### **Available finishes**

Use **BOLD** color code in model number (Example: VTW-1-**GR**) Architectural matte finishes







LED bar colors

<u>WH</u> White

Light Almond

<u>AL</u> Almond

<u>BE</u> Beige

White Green













<u>IV</u> Ivory

**TP** Taupe

<u>GR</u> Gray

<u>**SI**</u> Sienna

**BR** Brown

<u>BL</u> Black

#### Architectural metal finishes\*













BN **Bright Nickel** 

BC Bright Chrome

**CLA** Clear Anodized Satin Chrome Aluminum

SC

SN Satin Nickel

QΖ Antique Bronze







**BRA**Brass Anodized

SB
Satin Brass Aluminum





Antique Brass



**BLA Black Anodized** Aluminum

<sup>\*</sup>Metal finish wallplates include black plastic trim/adapter, visible from side. Match with separate Black (BL) controls and accessories.

# Wallplates and accessories | New Architectural

#### **Wallplates for Vierti® dimmers**



1-gang\* VTW-1-**AA**¹

W: 2.75 in (70 mm); H: 4.56 in (116 mm);

D: .30 in (7.6 mm)



3-gang\* VTW-3-AA1

W: 6.32 in (161 mm); H: 4.56 in (116 mm);

D: .30 in (7.6 mm)



2-gang\* VTW-2-**AA**1

W: 4.56in (116mm); H: 4.56in (116mm);

D: .30 in (7.6 mm)



4-gang\* VTW-4-**AA**1

W: 8.45 in (215 mm); H: 4.56 in (116 mm);

D: .30 in (7.6 mm)

**AA**¹: Architectural matte and Architectural metal color codes, see pg. 149

Controls must have heat-sink fins broken for multi-gang installations.

Multi-gang dimmer installations may require derating, see pg. 170.

\*Metal finish wallplates include black plastic trim/ adapter, visible from side. Match with separate Black (BL) controls.

www.lutron.com | 1.800.523.9466 | **LUTRON** 

#### Custom Vierti wallplates\*\*



#### Dimmer and designer receptacle

Left side Vierti®/	VTW-VR- <b>AA</b> ²-CPW0944
right side receptacle*	
Right side Vierti/	VTW-RV- <b>AA</b> ²-CPW0945
left side receptacle*	

Multiple devices with line and low-voltage can be mounted behind a common wallplate using a standard barrier backbox. See Application Note #213 (Combining low-voltage and line voltage wiring devices in a multi-gang box) at www.lutron.com/applicationnotes.

#### • •

### 5-gang and 6-gang wallplates:

D: .30 in (7.6 mm)

5-gang\* VTW-5-**AA**²-CPW0915
5-gang VTW-5-**AA**³
W: 9.978 in (253 mm); H: 4.56 in (116 mm);
D: .30 in (7.6 mm)
6-gang\* VTW-6-**AA**²-CPW0916
6-gang VTW-6-**AA**³
W: 11.79 in (299 mm); H: 4.56 in (116 mm);

**AA**¹: Architectural matte and Architectural metal color codes, see pg. 149

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 149

**AA**3: Architectural metal color codes, see pg. 149

**D**: LED bar color codes; Blue (B), White (W) and Green (G), see pg. 15

#### **LED** bar color kits







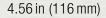
- For easy replacement of new color LED bar and/or wallplate
- · Wallplate included
- · No tools required

Color kit\* VT-CK-**D-AA**<sup>1</sup>

Multi-gang dimmer installations may require derating, see pg. 170.

\*Metal finish wallplates include black plastic trim/ adapter, visible from side. Match with separate Black (BL) controls.

\*\*Contact customer service at 1.800.LUTRON1 to order or to inquire about additional custom configurations





Shown actual size: Nova T☆ dimmers and 2-gang Architectural wallplate in White (WH).

.30 in (7.6 mm) profile

#### **Product family features**

- Can be used in conjunction with the following dimmer(s) and switch(es): Vareo<sub>®</sub>, Nova T☆<sub>®</sub>
- All Lutron® wallplates are screwless, seamless and have no visible hardware, the front plate securely snaps into the alignment adapter plate
- Customize your architectural wallplate with engraving or by adding a corporate logo, contact customer service to get started at 1.888.LUTRON1
- Matte finish wallplates can be custom colored to perfectly match a paint color number, swatch or sample

#### **Ganging and derating**

- Architectural wallplates in this section use standard ganging
- Requires fins to be removed from dimmers for proper spacing ("Fins Broken" ganging), see pg. 170
- May require derating (i.e., reduction of dimmer capacity due to fin removal), see Derating Tables, pg. 173
- Custom multi-gang wallplates required for the following cases
  - -Full-capacity ganging ("No Fins Broken")
  - -Large Nova T☆ controls (1500/2000 W)
  - -Nova controls

For further information visit

www.lutron.com/customganging.

#### **Available finishes**

Use **BOLD** color code in model number (Example: VWP-1-<u>SI</u>) Architectural matte finishes



#### Architectural metal finishes\*



<sup>\*</sup>Metal finish wallplates include black plastic trim/adapter, visible from side. Match with separate Black (BL) or Midnight (MN) controls.

## Wallplates for Vareo® and Nova T☆® dimmers and architectural accessories VWP-1-**AA**1 VWP-2R-AA2 1-gang for one switch or dimmer\* 2-gang\* W: 2.75 in (70 mm); H: 4.56 in (116 mm); for two accessories W: 4.56in (116mm); H: 4.56in (116mm); D: .30 in (7.6 mm) D: .30 in (7.6 mm) WP-R-AA1 1-gang for one accessory\* W: 2.75 in (70 mm); H: 4.56 in (116 mm); VWP-3-AA2 3-gang\* D: .30 in (7.6 mm) for three switches or dimmers W: 6.32 in (161 mm); H: 4.56 in (116 mm); D: .30 in (7.6 mm) **VWP-2-AA<sup>2</sup>** 2-gang\* for two dimmers or switches W: 4.56in (116mm); H: 4.56in (116mm); 4-gang\* VWP-4-AA2 for four switches or dimmers D: .30 in (7.6 mm) W: 8.45 in (215 mm); H: 4.56 in (116 mm);

**AA**¹: Architectural matte and Architectural metal color codes, see pg. 153

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 153

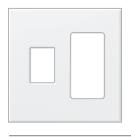
For metal finishes, contact Custo

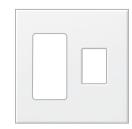
For metal finishes, contact Customer Service at 1.800.LUTRON1.

Multi-gang dimmer installations may require derating, see pg. 170.

D: .30 in (7.6 mm)

\*Metal finish wallplates include black plastic trim/ adapter, visible from side. Match with separate Black (BL) controls.





2-gang\*

WP-2CR-AA2

for one dimmer or switch and one accessory W: 4.56 in (116 mm); H: 4.56 in (116 mm); D: .30 in (7.6 mm)

2-gang\* WP-2RC-**AA**<sup>2</sup>

for one accessory and one dimmer or switch W: 4.56 in (116 mm); H: 4.56 in (116 mm);

D: .30 in (7.6 mm)

Multiple devices with line and low-voltage can be mounted behind a common wallplate using a standard barrier backbox, see Application Note #213 (Combining Low-Voltage and Line Voltage Wiring Devices in a Multi-Gang Box) at www.lutron.com/applicationnotes.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 153

For metal finishes, contact Custor

For metal finishes, contact Customer Service at 1.800.LUTRON1.

Multi-gang dimmer installations may require derating, see pg. 170.

\*Metal finish wallplates include black plastic trim/ adapter, visible from side. Match with separate Black (BL) controls.

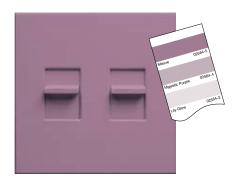
#### **Custom Architectural wallplates**

Custom configurations, colors, engraving and silkscreenings available. Contact customer service 1.888.LUTRON1.

Custom multi-gang wallplates required for the following cases:

- Multi-gang metal finishes
- Full-capacity ganging ("No Fins Broken")
- Large Nova T☆ controls (1500/2000 W)
- Nova controls

For further information, visit www.lutron.com/customganging.



Custom coloring available for all Architectural matte finish wallplates.



Custom engraving available for all Traditional, Designer, Architectural and New Architectural style wallplates (except Stainless Steel). For wallplate engraving schedules, go to www.lutron.com/engraving.

## Wallplates and accessories | Architectural

#### Cable jack



- F-style, 75-Ohm coaxial cable
- Includes 1-gang wallplate

Single cable jack\*

NT-CJ-**AA**<sup>2</sup>

#### Telephone jack



- 6-conductor jack, RJ11
- · Includes 1-gang wallplate

Single telephone jack\*

NT-PJ-**AA**<sup>2</sup>

#### Double and triple telephone jacks



- 8-conductor jack, RJ45 category 5 phone jack
- Includes 1-gang wallplate



Double telephone jack\*†

NT-PJ8X2-AA²

Triple telephone jack\*†

NT-PJ8X3-AA²

#### Telephone/cable jack



- 8-conductor jack, RJ45 category 5 phone jack
- · F-style, 75-Ohm coaxial cable jack
- Includes 1-gang wallplate

Telephone/cable jack\* †

NT-PJ8CJ-**AA**<sup>2</sup>

Multiple devices with line and low-voltage can be mounted behind a common wallplate using a standard barrier backbox, see Application Note #213 (Combining Low-Voltage and Line Voltage Wiring Devices in a Multi-Gang Box) at www.lutron.com/applicationnotes.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 153 (1-gang wallplate included)

- \*Metal finishes are only available as separate wallplates. Match with separate Black (BL) controls and accessories.
- †Ivory, White, Beige and Taupe controls will ship with White coordinating jacks; Brown, Black, Gray and Metal finish controls will ship with Black coordinating jacks.

#### **Receptacles**



· Includes 1-gang wallplate

### Isolated ground receptacles



- Receptacle is orange for easy ID and circuit delineation
- Wallplate will match color that is ordered
- · Includes 1-gang wallplate

15A, 125V*	NTR-15-IG-OR- <b>AA</b> 2
20A, 125V*	NTR-20-IG-OR- <b>AA</b> 2

### Tamper resistant receptacles

15A, 125V*	NTR-15-TR- <b>AA</b> 2
20A, 125V*	NTR-20-TR- <b>AA</b> 2

#### **GFCI** receptacles



- Press test button to confirm LED indicator status
- Press reset button to reset GFCI after circuit interruption
- · Includes 1-gang wallplate

#### Tamper resistant GFCI receptacles

15A, 125V*	NTR-15-GFTR- <u><b>AA</b></u> ²
20 A, 125 V*	NTR-20-GFTR- <b>AA</b> 2

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 153 (1-gang wallplate included)

\*Metal finishes are only available as separate wallplates. Match with separate Black (BL) controls and accessories.

#### Receptacles for dimming use



- Duplex for dimming both connected loads
- Projecting nubs prevent standard plugs from being used
- Requires replacement plugs for dimming use
- · Includes 1-gang wallplate

#### Duplex for dimming use

15A, 120/125V*	NTR-15-DFDU- <b>AA</b> 2
20 A, 120/125 V*	NTR-20-DFDU- <b>AA</b> ²

#### Receptacles for dimming use



- Top half for dimming
- Projecting nub prevents standard plug from being used
- Requires replacement plugs for dimming use
- Bottom half is a general use receptacle and will fit standard duplex plugs
- · Includes 1-gang wallplate

#### Split duplex (half for dimming use)

15A, 120/125V*	NTR-15-HFDU- <b>AA</b> ²
20A, 120/125V*	NTR-20-HFDU- <b>AA</b> 2

# Replacement plugs for dimming (use with receptacles)



- This plug required for use with Lutron® receptacles for dimming use—plug will work in standard receptacle
- Easily replaces the existing plugs on lamps

120/125 V White	RP-FDU-10-WH
120/125 V Brown	RP-FDU-10-BR

UL/CSA/NOM regulatory approvals

#### **Important application notes:**

- Receptacles and plugs for dimming use are UL listed for use with all Lutron wallbox dimmers included in this catalog
- If there is only one electrical feed to the receptacle, then the duplex DFDU must be used
- If the hot and dimmed hot feeds to the split duplex HFDU are supplied from different circuits or split-wired, with separate switch-legs, a means to simultaneously disconnect these circuits must be provided at the panel board where they originate (NEC 210.7(C) 2002 Edition). A 2-pole circuit breaker or two single-pole circuit breakers with an approved handle tie can be used to accomplish this simultaneous disconnect. Feed-through dimming panels, which are those without breakers, are recommended when using the HFDU.
- For detailed information, see Application Notes #91 (Guide to Dimming Table Lamps) and #109 (Guide to Dimming Portable Lamps via Receptacles) at www.lutron.com/applicationnotes

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 153 (1-gang wallplate included)

\*Metal finishes are only available as separate wallplates. Match with separate Black (BL) controls and accessories.

## Wallplates and accessories | Architectural

### Field customizable 6-port frame



- Shipped with six blanks in matching colors
- · Connectors sold separately
- Connectors snap in (no tools required)
- Included 1-gang wallplate
- Connectors available in White (WH) only unless noted

6-port frame\* NT-6PF-AA2

Multiple devices with line and low-voltage can be mounted behind a common wallplate using a standard barrier backbox, see Application Note #213 (Combining Low-Voltage and Line Voltage Wiring Devices in a Multi-Gang Box) at www.lutron.com/applicationnotes.

#### **Connectors for 6-port frame**

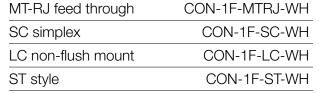
#### Telephone/network jacks



8-conductor,	CON-1P-C3- <b>EE</b> 4
RJ45 category 3	
8-conductor,	CON-1P-C5E- <b>EE</b> ⁴
RJ45 category 5e	
8-conductor,	CON-1P-C6- <b>EE</b> 4
RJ45 category 6	

### Fiber jacks









F-style,	CON-1C- <b>EE</b> ⁴
75-Ohm coaxial cable	

### BNC jack



BNC connector, 50-Ohm CON-1B-WH

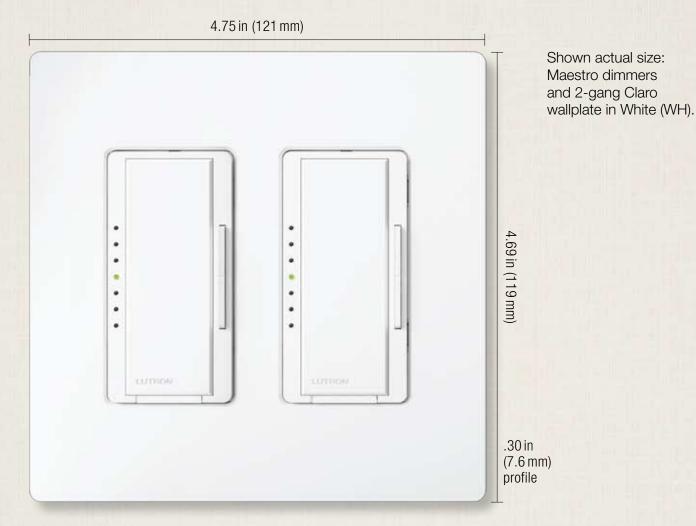
Connectors only for use with 6-port frame.

**AA**<sup>2</sup>: Architectural matte color codes, see pg. 153

**<u>EE</u>**<sup>4</sup>: Only available in White (WH) and Black (BL)

\*Metal finishes are only available as separate wallplates. Match with separate Black (BL) controls and accessories.

## Wallplates and accessories | Designer | Claro / Satin Colors



#### **Product family features**

- Can be used in conjunction with the following dimmer(s) and switch(es): Maestro®, Maestro IR®, Maestro Wireless®, Pico™ wireless control, Spacer System®, Diva®, Lyneo® Lx, Skylark®, MeadowLark®
- All Lutron® wallplates are screwless, seamless and have no visible hardware; the front plate securely snaps into the alignment adapter plate
- · Full line of wiring devices in designer style opening
- Blank inserts available for Gloss colors (DV-BI-) and Satin colors (SC-BI-)
- Customize your designer wallplate with engraving, contact customer service to get started at 1.888.LUTRON1

#### **Ganging and derating**

- · Designer wallplates use standard ganging
- Requires fins to be removed from dimmers for proper spacing ("Fins Broken" ganging), see pg. 170
- May require derating (i.e., reduction of dimmer capacity due to fin removal), see Derating Tables, pg. 172

#### **Available finishes**

Use  ${f BOLD}$  color code in model number (Example: SC-1- ${f PL}$ )

Gloss finishes



#### Satin finishes



<sup>\*</sup>Stainless Steel finish wallplates include black plastic trim/adapter, visible from side. Match with separate Black (BL) or Midnight (MN) controls and accessories.

## Wallplates and accessories | Designer | Claro / Satin Colors

Wallplates for Maestro R<sub>®</sub>, Maestro Wireless<sub>®</sub>, Pico™ wireless control, Spacer System<sub>®</sub>, Diva<sub>®</sub>, Lyneo<sub>®</sub> Lx, Skylark<sub>®</sub> and MeadowLark<sub>®</sub>



1-gang\*

CW-1-**CC**<sup>2</sup>

SC-1-**CC**4

<u>...</u>

4-gang\*

CW-4-<u>**CC**</u>2

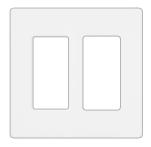
SC-4-<u>CC</u>4

W: 2.94 in (75 mm); H: 4.69 in (119 mm)

D: .30 in (7.6 mm)

W: 8.37 in (213 mm); H: 4.69 in (119 mm);

D: .30 in (7.6 mm)



2-gang\* CW-2-<u>CC</u><sup>2</sup>

SC-2-**CC⁴** 

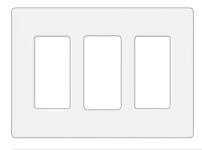
5-gang\*

CW-5-<u>**CC**</u><sup>2</sup>

SC-5-**CC**⁴

W: 4.75 in (121 mm); H: 4.69 in (119 mm);

D: .30 in (7.6 mm)



3-gang\* CW-3-<u>CC</u><sup>2</sup> SC-3-**CC**<sup>4</sup>

W: 6.56 in (167 mm); H: 4.69 in (119 mm);

D: .30 in (7.6 mm)

**<u>CC</u><sup>2</sup>**: Gloss and Stainless Steel color codes, see pg. 161

**CC⁴**: Satin color codes, see pg. 161

W: 10.18 in (259 mm); H: 4.69 in (119 mm);

D: .30 in (7.6 mm)

Multiple devices with line and low-voltage can be mounted behind a common wallplate using a standard barrier backbox, see Application Note #213 (Combining Low-Voltage and Line Voltage Wiring Devices in a Multi-Gang Box) at www.lutron.com/applicationnotes.

Multi-gang dimmer installations may require derating, see pg. 170.

\*Stainless Steel finish wallplates include black plastic trim/adapter, visible from side. Match with separate Black (BL) or Midnight (MN) controls and accessories.



6-gang\* CW-6-<u>CC</u><sup>2</sup> SC-6-**CC**<sup>4</sup>

W: 12.00 in (305 mm); H: 4.69 in (119 mm);

D: .30 in (7.6 mm)

#### Cable jacks



F-style, 75-Ohm coaxial cable

Single cable jack*	CA-CJH- <b>CC</b> ³
	SC-CJ- <b>CC</b> ⁴

### Telephone jacks



6-conductor telephone jack, RJ11

SC-PJ-CC⁴

Single telephone jack\* CA-PJH-<u>CC</u><sup>3</sup>

**CC**<sup>2</sup>: Gloss and Stainless Steel color codes, see pg. 161

**<u>CC</u>**<sup>3</sup>: Gloss color codes, see pg. 161

**CC⁴**: Satin color codes, see pg. 161

#### **Receptacles**



#### Tamper resistant receptacles

15A, 125V*	CARS-15-TR- <b>CC</b> <sup>3</sup>
	SCRS-15-TR- <u>CC</u> ⁴
20A, 125V*	SCRS-20-TR- <u><b>CC</b></u> ⁴

#### Receptacles

15A, 125V*	CAR-15A- <u><b>CC</b></u> <sup>3</sup>
	SCR-15- <u><b>CC</b></u> ⁴
20A, 125V*	SCR-20- <u><b>CC</b></u> ⁴

#### **GFCI** Receptacles



- Press test button to confirm LED indicator status
- Press reset button to reset GFCI after circuit interruption

#### Tamper resistant GFCI receptacles

•	•	
15A, 125V*	GFCI	CAR-15-GFTR- <b>CC</b> <sup>3</sup>
		SCR-15-GFTR- <b>CC</b> ⁴
20A, 125V*	GFCI	SCR-20-GFTR- <u>CC</u> ⁴

\*Stainless Steel finish only available as separate wallplate. Match with separate Black (BL) or Midnight (MN) controls and accessories.

#### Receptacles for dimming use



- Duplex for dimming both connected loads
- Projecting nubs prevent standard plugs from being used
- Requires replacement plugs for dimming use

#### Duplex for dimming use

15A	120/125V*	CAR-15-DFDU- <u>CC</u> 2
15A	120/125V*	SCR-15-DFDU- <u>CC</u> ⁴
20 A	120/125 <b>V</b> *	CAR-20-DFDU- <u>CC</u> <sup>2</sup>
20 A	120/125V*	SCR-20-DFDU- <u>CC</u> ⁴

# Replacement plug for dimming (use with receptacles on left)



- This plug required for use with Lutron® receptacles for dimming use—plug will work in standard receptacle
- Easily replaces the existing plugs on lamps

120/125 V	RP-FDU-10-WH
White	
120/125 V	RP-FDU-10-BR
Brown	
LIL /CCA/NIONA requilaters a property rela	

UL/CSA/NOM regulatory approvals.

#### Receptacles for dimming use



- · Top half for dimming
- Projecting nub prevents standard plug from being used
- Requires replacement plugs for dimming use
- Bottom half is a general use receptacle and will fit standard duplex plugs

#### Split duplex (half for dimming use)

15A	120/125 V*	CAR-15-HFDU- <u><b>CC</b></u> ²
15A	120/125 V*	SCR-15-HFDU- <u>CC</u> ⁴
20A	120/125 V*	CAR-20-HFDU- <u>CC</u> ²
20 A	120/125V*	SCR-20-HFDU- <u>CC⁴</u>

#### **Important notes**

- If the hot and dimmed hot feeds to the split duplex HFDU are supplied from different circuits or split-wired with separate switch-legs, a means to simultaneously disconnect these circuits must be provided at the panel board where they originate (NEC 210.7(C) 2002 Edition). A 2-pole circuit breaker or two single-pole circuit breakers with an approved handle tie can be used to accomplish this simultaneous disconnect. Feed-through dimming panels, which are those without breakers, are recommended when using the HFDU.
- Receptacles and plugs for dimming use are UL listed for use with all Lutron® wallbox dimmers included in this catalog.
- If there is only one electrical feed to the receptacle, then the duplex DFDU must be used.
- For detailed information, see Application Notes #91 (Guide to Dimming Table Lamps) and #109 (Guide to Dimming Portable Lamps via Receptacles) at www.lutron.com/applicationnotes.

**CC**<sup>2</sup>: Gloss color code and Stainless Steel, see pg. 161

CC4: Satin color codes, see pg. 161

\*Stainless Steel finish only available as separate wallplate. Match with separate Black (BL) or Midnight (MN) controls and accessories.

#### Field customizable 6-port frame



- Shipped with six blanks in matching colors
- · Connectors sold separately
- Connectors snap in (no tools required)
- Connectors available in White (WH), unless noted

6-port frame*	CA-6PF- <b><u>CC</u>³</b>
	SC-6PF- <u><b>CC</b></u> ⁴

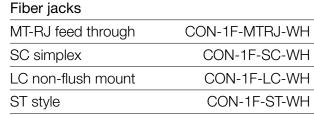
#### **Connectors for 6-port frame**

#### Telephone/network jacks



8-conductor,	CON-1P-C3- <b>EE</b> ⁴
RJ45 category 3	
8-conductor,	CON-1P-C5E- <b>EE⁴</b>
RJ45 category 5e	
8-conductor,	CON-1P-C6- <b>EE⁴</b>
RJ45 category 6	











F-style,	CON-1C- <b>EE</b> ⁴
75-Ohm coaxial cable	

### BNC jack



BNC connector, 50-Ohm	CON-1B-WH

Connectors only for use with 6-port frame.

#### **Switches**



- · Paddle turns on/off
- · Use with any 15A load
- General purpose switching of all sources and motor loads
- · No derating if ganged

#### General purpose switches (120/277 V)

Single-pole	15A*	CA-1PSH- <u><b>CC</b></u> 3
		SC-1PS- <u><b>CC</b></u> 4
3-way	15A*	CA-3PSH- <u><b>CC</b></u> ³
		SC-3PS- <u><b>CC</b></u> ⁴
4-way	15A*	CA-4PSH- <u><b>CC</b></u> ³
		SC-4PS- <u><b>CC</b></u> ⁴

# General purpose switch with locator light (120 V only)

•		
Single-pole	15A*	CA-1PSNL- <b>EE</b> <sup>2</sup>
		SC-1PSNL- <u><b>EE</b>10</u>
3-way	15A*	CA-3PSNL- <b>EE</b> <sup>2</sup>
		SC-3PSNL- <u><b>EE</b>10</u>
4-way	15A*	CA-4PSNL- <b>EE</b> <sup>2</sup>
		SC-4PSNL- <u><b>EE</b>10</u>

**CC**<sup>3</sup>: Gloss color codes, see pg. 161

CC4: Satin color codes, see pg. 161

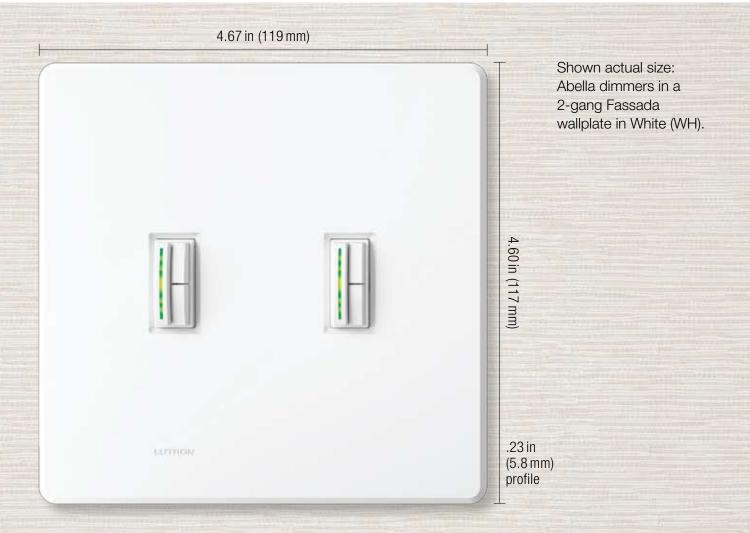
**EE**<sup>2</sup>: Only available in Almond (AL), Ivory (IV), Light Almond (LA) and White (WH)

**EE**<sup>4</sup>: Only available in White (WH) and Black (BL)

**EE**<sup>10</sup>: Available in Biscuit (BI), Eggshell (ES), Goldstone (GS), Limestone (LS), Sea Glass (SG) and Snow (SW)

\*Stainless Steel finish only available as separate wallplate. Match with separate Black (BL) or Midnight (MN) controls and accessories.

## Wallplates and accessories | Traditional | Fassada



#### **Product family features**

- Can be used in conjunction with the following dimmer(s) and switch(es): Abella®, Ceana®, Ariadni®, Glyder® and Rotary
- All Lutron wallplates are screwless, seamless and have no visible hardware; the front plate securely snaps into the alignment adapter plate
- Traditional wallplates can be paired with designer accessories to complete the look of any room
- Customize your traditional wallplate with engraving, contact customer service to get started at 1.888.LUTRON1

#### Ganging and derating

- · Traditional wallplates use standard ganging
- Requires fins to be removed from dimmers for proper spacing ("Fins Broken" ganging), see pg. 170
- May require derating (i.e., reduction of dimmer capacity due to fin removal), see Derating Tables, pg. 172

www.lutron.com | 1.800.523.9466 | **LUTRON**. 166

# Wallplates and accessories | Traditional | Fassada

#### **Available finishes**

Use BOLD color code in model number (Example: FG-1- $\!\underline{\textbf{AL}}\!)$ 

Gloss finishes



#### Metal finishes



<u>**SS**</u> Stainless Steel\*

<sup>\*</sup>Stainless Steel finish wallplates include black plastic trim/adapter, visible from side. Match with separate Black (BL) controls.

# Wallplates for Abella®, Ceana®, Ariadni®, Glyder® and Rotary



1-gang FG-1-<u>CC</u><sup>3</sup>
Stainless Steel\* FW-1-SS

W: 2.86 in (73 mm); H: 4.60 in (117 mm);

D: .23 in (5.8 mm)



3-gang FG-3-<u>CC</u><sup>3</sup>
Stainless Steel\* FW-3-SS

W: 6.48 in (165 mm); H: 4.60 in (117 mm);

D: .23 in (5.8 mm)



2-gang FG-2-<u>CC</u><sup>3</sup>

Stainless Steel\* FW-2-SS

W: 4.67 in (119 mm); H: 4.60 in (117 mm);

D: .23 in (5.8 mm)



Controls must have heat-sink fins broken for multi-gang installations. Removing this metal reduces the amount of heat that the control can dissipate, thus reducing the wattage capacity of the control. Please derate dimmers and switches as required.

Multi-gang dimmer installations may require derating, see pg. 170.

#### Combination opening



Rotate the wallplate for small/large or large/small opening applications.

2-gang (1 traditional, FG-2-TD-**CC**<sup>3</sup>

1 designer opening)

Stainless Steel\* FW-2-TD-SS

W: 4.67 in (119 mm); H: 4.60 in (117 mm);

D: .23 in (5.8 mm)

**CC**<sup>3</sup>: Gloss color codes, see pg. 167

Controls must have heat-sink fins broken for multi-gang installations.

Multi-gang dimmer installations may require derating, see pg. 170.

\*Stainless Steel wallplates include black plastic trim/adapter, visible from side. Match with separate Black (BL) controls.

#### Mounting requirements for dimmers, switches, sensors and accessories

#### Individual devices

Individual dimmers, switches, wall sensors and accessories typically mount in standard 1-gang electrical boxes (fig. A).



1-gang box

(W: 2 in x H: 3 in x D: 2.5 in)

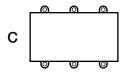
#### Standard ganging

Multiple dimmers, switches, wall sensors and accessories typically mount in standard multi-gang electrical backboxes (**fig. B–D**) under standard multi-gang wallplates. Some devices may require derating or reduction in maximum capacity. For more information on standard ganging, see pg. 170.



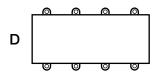
2-gang box

(W: 4 in x H: 3 in x D: 2.5 in)



3-gang box

(W:6in x H: 3in x D: 2.5in)

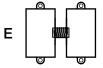


4-gang box

(W: 8 in x H: 3 in x D: 2.5 in)

#### **Custom Architectural ganging**

Architectural dimmers, switches and accessories may be ganged without derating (**fig. E**), but wider-than-standard electrical backboxes and customized wallplates may be required. For more information on custom Architectural ganging, see pg. 170.



(2) 1-gang boxes with 3/4 in spacer

#### Light load power interfaces (pg. 178)

Interfaces typically mount to a standard electrical junction box (**fig. F**); must be mounted within 7 degrees of vertical. Maximum output: 5.1 in x 6.3 in. Interfaces project 1.2 in in front of box.



Junction box (W: 4 in x H: 4 in x D: 2.5 in)

#### Ceiling mount sensors (pgs. 144 and 146)

Wireless ceiling mount Radio Powr Savr™ sensors (fig. G) mount to circular bracket provided with sensor using adhesive strips or mounting hardware provided.



Wireless sensor mounting bracket (3.2 in diameter footprint, mounting brackets are spaced 1.8 in)



#### How to understand ganging and derating

#### Standard ganging

Ganging is the side-by-side mounting of two or more dimmers or accessory devices under a multi-gang wallplate.

Standard multi-gang installation:

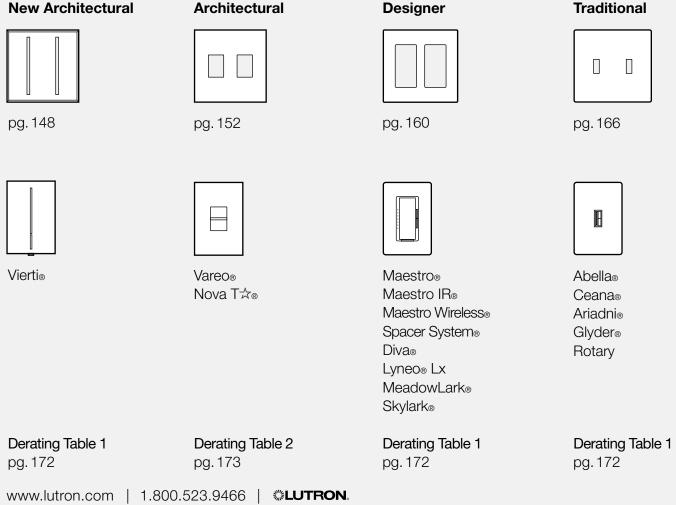
- Uses standard multi-gang electrical backboxes
- Uses standard multi-gang wallplates
- Requires fins to be removed from dimmers for proper spacing ("Fins Broken" ganging)
- May require derating (i.e., reduction of dimmer capacity due to fin removal), see Derating Tables, pgs. 172–173

# Custom ganging for Architectural style controls

For Architectural style dimmers and switches, it is possible to retain the maximum capacity of dimmers in multi-gang applications via custom architectural multi-gang:

- May require customized, wider-thanstandard wallplates
- May require wider-than-standard electrical backboxes
- · Allows full capacity ("No Fins Broken") ganging
- Required for Nova® dimmers and for larger width (high capacity) architectural controls
- Visit www.lutron.com/customganging for additional information

#### Standard ganging for dimmers, switches and accessories



### Standard ganging and fins broken derating examples:



One Nova T☆® dimmer



No fins broken Full capacity



Standard 1-gang backbox



Standard 1-gang architectural wallplate



Two Nova T☆ dimmers "Fins Broken" ganging



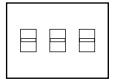
One fin broken\* Partial derating



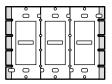
Standard 2-gang backbox



Standard 2-gang architectural wallplate

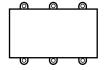


Three Nova T☆ dimmers "Fins Broken" ganging



Inside: Two fins broken\*
Full derating

Outside: One fin broken\*



Standard 3-gang backbox



Standard 3-gang architectural wallplate

### **Custom Architectural ganging example:**



Two Nova T☆ dimmers "No Fins Broken" ganging

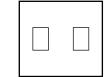


Partial derating

No fins broken Full capacity



Backbox with chase nipple



Custom architectural wallplate

For further information on ganging and derating, visit www.lutron.com/multigang.

\*The fins are scored and designed to be removed easily.

# Appendix | Ganging and derating

### **Derating Table 1**

New Architectural | Vierti®

**Designer** | Maestro®, Maestro IR®, Maestro Wireless®, Spacer System®, Diva®, Lyneo® Lx, MeadowLark®, Skylark® **Traditional** | Abella®, Ceana®, Ariadni®, Glyder®, Rotary

	No fins broken	1 fin broken	2 fins broken
Incandescent	140 IIIIS DI OKEII	I IIII DIOREII	Z IIIIS DIOREII
Dimmers	600W	500 W	400 W
	1000W	800W	650W
Dual dimmers	300W	250W	200W
	300W	250W	200W
Magnetic low-voltage	000 VV	200 **	200 **
Dimmers	600 VA /450 W	500 VA / 400 W	400 VA/300 W
	1000 VA /800 W	800 VA / 650 W	650VA/500W
Electronic low-voltage		1	
Dimmers	300W	250W	200W
	500 W	450W	400 W
	600W	500 W	400 W
Fluorescent			
Hi-lume <sub>®</sub> /Hi-lume <sub>®</sub> Compact SE/Eco-10 <sub>®</sub> /	EcoSystem <sub>®</sub>		
Vierti	60 ballasts/6A	50 ballasts/5A	35 ballasts/3.5A
Maestro/Spacer System	20 ballasts/6A	20 ballasts/5A	20 ballasts/3.5A
Diva, Skylark, Lyneo Lx and Ariadni	no derating	no derating	no derating
Tu-Wire®: Spacer System, Diva, Skylark	5A	4A	3.3A
Fan controls			
Quiet 7-speed	1.0A/300W	1.0A/300W	1.0A/300W
Quiet 3-speed	1.5A	1.5A	1.5A
Fully variable	5A	4A	3A
Fan/light controls			
Quiet 7-speed	1.0A/300W	1.0A/300W	1.0A/300W
Quiet 3-speed	1.5A/300W	1.5A/300W	1.5A/300W
	1.5A/360W	1.5A/360W	1.5A/360W
Fully variable	2.5A/300W	2.1A/250W	1.7A/200W
Electronic switches			
Vierti	6A/3A	5A/3A	3.5A/3A
Maestro (light/fan)	8A/3A	6.5A/3A	5A/3A
Abella (light/fan)	6A/3A	5A/3A	3.5A/3A

# Appendix | Ganging and derating

### **Derating Table 2**

Architectural | Vareo®, Nova T☆®

	No fins broken	្រី 1 fin broken	2 fins broken
Incandescent			
Dimmers	600 W	500W	300W
	1000 W	900W	700W
	1500W	1250W	1000W
	1950W	_	_
Magnetic low-voltage			
Dimmers	600 VA / 450 W	500 VA /400 W	300 VA/250 W
	1000 VA/800 W	900 VA/750 W	700 VA/500 W
	1500 VA/1200 W	1250 VA/1000 W	1000 VA/800 W
Electronic low-voltage			
Dimmers	300W	300W	250W
	600W	500W	400W
Fluorescent			
Hi-lume  // Hi-lume  // Compact SE/E	Eco-10 <sub>®</sub> /EcoSystem <sub>®</sub>		
Vareo	20 ballasts/8A	20 ballasts/6A	20 ballasts/4.5 A
Nova T☆	6A	no derating	no derating
	8A	no derating	no derating
	16A	no derating	no derating
0-10VDC control <sup>1</sup>	30 mA ballasts	no derating	no derating
Tu-Wire®	5A	4A	3.3A
Fan controls			
Quiet 3-speed	1.5A	no derating	no derating
Fully variable	6A	4.2A	2.5A
Fully variable	12A	10A	8.3A
Electronic tapswitches <sup>2</sup>			
VETS-1000-	1000W	800W	650W
VETS-1000-SL-	1000W	900W	700W
VETN-1000-	1000 VA	700 VA	550 VA

For further information on ganging Nova®, visit www.lutron.com/customganging.

<sup>&</sup>lt;sup>1</sup>PowerPack required for line voltage switching.

<sup>&</sup>lt;sup>2</sup>VETS-R-Auxiliary electronic tapswitches do not require derating.

# Dimmer capabilities and interface requirements

Multi-location—true dimming from each location

eco-model available

Compatible dimmer (no interface)

WBX TVI 3F PA Requires interface, see notes below



D'						
Dimmers	<u> </u>					
☐ Incandescent/halogen 120V	600 W			M		
	1000W			M		
		WBX				
		WBX				
<b>▼ Magnetic low-voltage</b> 120 V	600 VA (450 W)					
	1000 VA (800 W)					
	1500 VA (1200 W)		WBX			
	2000 VA (1600 W)		WBX	WBX		
▼ Magnetic low-voltage 277∨	600 VA (450 W)		WBX		WBX	
1000 VA (800 W)			WBX		WBX	
₩ Electronic low-voltage 120 V	300W		WBX			
	450W		WBX	WBX		
	600W		WBX		WBX	
☐ Electronic low-voltage 277 V	16A		WBX	WBX	WBX	
Neon/cold cathode			WBX	WBX		
್⁄®3-wire ballasts and Hi-lume⊚ LE	ED driver 120V 6A					
Hi-lume, Hi-lume Compact SE,	8A					
Eco-10 <sub>®</sub> and EcoSystem <sub>®</sub> ballasts	16A		3F			
△ 3-wire ballasts and Hi-lume LED driver 277 \ 6A			3F			
Hi-lume, Hi-lume Compact SE,	8A		3F			
Eco-10 and EcoSystem ballasts 16A			3F	3F	3F	
<b>Tu-Wire</b> ® ballasts 120V 5A			PA			
<b>ು⊚0-10VDC</b> (ballasts or LED Drivers	TVI	TVI				

**WBX**: Wallbox Phase Adaptive Power Module

(PHPM-WBX-DV-WH)

**3F**: Fluorescent Power Module

(PHPM-3F-DV-WH)

TVI: 0-10V Interface

(GRX-TVI)

PA: Phase Adaptive Power Module

(PHPM-PA-DV-WH)

See pgs. 178–179 for specific compatible dimmer models and switching interface solutions.

\*Consult Lutron Technical Support for information on interfaces with Vierti.

# Dimmer capabilities and interface requirements

Multi-location—true dimming from each location

eco-model available

Compatible dimmer (no interface)

WBX TVI 3F PA Requires interface, see notes below



1-0 1-0				
Ø	Ø	M	M	
<b>3</b>				9
WBX		WBX	WBX	WBX
WBX		WBX	WBX	WBX
WBX		WBX	WBX	WBX
WBX		WBX	WBX	WBX
WBX		WBX	WBX	WBX
WBX		WBX	WBX	WBX
		WBX		
		WBX		WBX
		WBX		WBX
WBX		WBX	WBX	WBX
		WBX		WBX
3F		3F	3F	
3F		3F	3F	3F
3F		3F	3F	3F
3F		3F	3F	3F
PA		PA		
TVI		TVI	TVI	TVI
	(	WBX	WBX	WBX

**WBX**: Wallbox Phase Adaptive Power Module

(PHPM-WBX-DV-WH)

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(PHPM-PA-DV-WH)

See pgs. 178–179 for specific compatible dimmer models and switching interface solutions.

# Dimmer capabilities and interface requirements

Multi-location—true dimming from each location

eco-model available

Compatible dimmer (no interface)

WBX TVI 3F PA Requires interface, see notes below



Dimmers				00	
	capacity <sup>†</sup>		<b>a</b>	<b>3</b>	
t incanascon naiogen izo	1000W				
	1500W	WBX		WBX	<u> </u>
	2000W	WBX		WBX	
<b>Solution</b> Magnetic low-voltage 120 V	600 VA (450 W)				
inagnotion voltage 120 v	1000 VA (800 W)			WBX	
	1500 VA (1200 W)	WBX		WBX	<u> </u>
	2000 VA (1600 W)	WBX		WBX	
<b>Solution</b> Magnetic low-voltage 277 ∨	600 VA (450 W)	WBX		WBX	
i Magnetic low-voltage 277 v	1000 VA (800 W)	WBX		WBX	
☐ Electronic low-voltage 120V	300W	WDX		WEX	
The chomic low-voltage 120 v	450W			WBX	
	600W			WBX	
₩ Electronic low-voltage 277 V	16A	WBX		WBX	
Neon/cold cathode     Neon/cold cathode	IOA	WBX		WBX	
Neon/cold cathode      Neon/cold cathode      Neon/cold cathode      Neon/cold cathode      Neon/cold cathode	<b>ED</b> driver 120\/ 6 A	VVDX		VVDX	
Hi-lume, Hi-lume Compact SE,	8A				
Eco-10 <sub>®</sub> and EcoSystem <sub>®</sub> ballasts		3F		3F	
,	ЭГ		or .		
<b>3-wire ballasts and Hi-lume LE</b>	3F		3F		
Hi-lume, Hi-lume Compact SE,	8A 16A			**	
Eco-10 and EcoSystem ballasts	3F		3F		
<b>Tu-Wire</b> ® ballasts 120 V	PA				
□••0-10 VDC (ballasts or LED Drivers	TVI		TVI		

**WBX**: Wallbox Phase Adaptive Power Module

(PHPM-WBX-DV-WH)

**3F**: Fluorescent Power Module

(PHPM-3F-DV-WH)

TVI: 0-10 V Interface

(GRX-TVI)

PA: Phase Adaptive Power Module

(PHPM-PA-DV-WH)

See pgs. 178–179 for specific compatible dimmer models and switching interface solutions.

# Dimmer capabilities and interface requirements

Multi-location—true dimming from each location

eco-model available

Compatible dimmer (no interface)

WBX TVI 3F PA Requires interface, see notes below



Dimmers	capacity		
☐ Incandescent/halogen 120V	600 W	<b>a</b>	9
	1000 W		
	1500W	WBX	
	2000 W	WBX	
<b>∀</b> Magnetic low-voltage 120 V	600 VA (450 W)		
	1000 VA (800 W)		
	1500 VA (1200 W)	WBX	
	2000 VA (1600 W)	WBX	
▼ Magnetic low-voltage 277 V	600 VA (450 W)	WBX	
	1000 VA (800 W)	WBX	
ਓ Electronic low-voltage 120 V	300 W	WBX	
	450W	WBX	
	600W	WBX	
₩ Electronic low-voltage 277 V	16A	WBX	
Neon/cold cathode		WBX	
್®3-wire ballasts and Hi-lume⊚ LE	<b>D</b> driver 120V 6A		
Hi-lume, Hi-lume Compact SE,	8A		
Eco-10 <sub>®</sub> and EcoSystem <sub>®</sub> ballasts	16A	3F	
್ರಾ⊛3-wire ballasts and Hi-lume LEI	<b>O driver</b> 277 V 6A		
Hi-lume, Hi-lume Compact SE,	8A	3F	
Eco-10 and EcoSystem ballasts	16A	3F	
<b>∠E</b> Tu-Wire  • ballasts 120 V	5A	PA	
<b>☞/◎0-10VDC</b> (ballasts or LED Drivers)	120/277V 16A	TVI	

**WBX**: Wallbox Phase Adaptive Power Module

(PHPM-WBX-DV-WH)

**3F**: Fluorescent Power Module

(PHPM-3F-DV-WH)

**TVI**: 0-10 V Interface

(GRX-TVI)

PA: Phase Adaptive Power Module

(PHPM-PA-DV-WH)

See pgs. 178–179 for specific compatible dimmer models and switching interface solutions.

### Dimmer models/load interface compatibility

	Incandescent, magnetic and electronic low-voltage (120/277 V)		3-wire Fluorescent ballasts or Hi-lume⊚ LED drivers (120/277 V)		0-10VDC Ballasts or LED drivers (120/277V)	
	WBX		3F		TVI	
	Wallbox Phas Power Modul		Fluorescent Power Modu	ıle*	0-10 V Interface	
	PHPM-WBX-	-DV-WH	PHPM-3F-D	DV-WH	GRX-TVI	
Dimmer Family	Single- pole	3-way or multi-location	Single- pole	3-way or multi-location	Single- pole	3-way or multi-location
Abella®	_	_	_	_	_	_
Ariadni®	_	AYF-103P-	_	AYF-103P-	_	AYF-103P-
Ceana <sub>®</sub>	_	_	_	_	_	_
Diva <sub>®</sub> Gloss	_	DVF-103P-	_	DVF-103P-	-	DVF-103P-
Diva Satin Colors®	_	DVSCF- 103P-	_	DVSCF- 103P-	_	DVSCF- 103P-
Glyder®	_	_	_	_	_	_
Lyneo <sub>®</sub> Lx	_	LXF-103PL-	_	LXF-103PL-	_	LXF-103PL-
Maestro® Gloss	_	MAF-6AM-	_	MAF-6AM-	_	MAF-6AM-
Maestro® Satin Colors®	_	MSCF-6AM-	_	MSCF-6AM-	_	MSCF-6AM-
Maestro Wireless®	_	MRF2- F6AN-DV-	_	MRF2- F6AN-DV-	_	MRF2- F6AN-DV-
Nova®	NF-10-	NF-103P-	NF-10-	NF-103P-	NF-10-	NF-103P-
Nova T☆®	NTF-10-	NTF-103P-	NTF-10-	NTF-103P-	NTF-10-	NTF-103P-
Skylark <sub>®</sub>	SF-10P-	SF-103P-	SF-10P-	SF-103P-	SF-10P-	SF-103P-
Spacer System <sub>®</sub>	_	SPSF-6AM-		SPSF-6AM-	SPSF-S6A-	SPSF-6AM-
Vareo®	_	VF-10-	_	VF-10-	_	VF-10-
Vierti®	contact Lutron		contact Lutron		- VTF-6AM-	

#### Use only dimmer model numbers listed.

<sup>\*</sup>Dual 120/277 V model given,120 V only versions are also available. Please see Technical notes, pg. 179.

# Dimmer models/load interface compatibility

	Tu-Wire⊚ Fluorescent Ballasts (120 V)		Switched Lighting (120/277 V)	
	PA		sw	
	Phase Adaptive Power Module* PHPM-PA-DV-WH		Switching Power Module* PHPM-SW-DV-WH	
Dimmer Family	Single- pole	3-way or multi-location	Single- pole	3-way or multi-location
Abella®	_	_	_	AB-S6AM-
Ariadni®	_	AYF-103P-	_	_
Ceana®	_	_	_	_
Diva <sub>®</sub> Gloss	_	DVF-103P-	_	_
Diva Satin Colors®	-	DVSCF-103P-	_	_
Glyder®	_	_	_	_
Lyneo <sub>®</sub> Lx	_	LXF-103PL-	LX-1PSL-	LX-3PSL-
Maestro <sub>®</sub> Gloss	-	MAF-6AM-	-	MA-S8AM-
Maestro® Satin Colors®	_	MSCF-6AM-	_	MSC-S8AM-
Maestro Wireless®	_	MRF2- F6AN-DV-	_	MRF2-6ANS-
Nova®	NF-10-	NF-103P-	_	_
Nova T☆®	NTF-10-	NTF-103P-	_	_
Skylark®	SF-10P-	SF-103P-	_	_
Spacer System <sub>®</sub>	SPSF- S6A-	SPSF-6AM-	SPSF- S6A-	SPSF-S6AM-
Vareo <sub>®</sub>	_	VF-10-	_	VETN-1000-
Vierti®	contact Lutron		contact Lutron	

#### **Technical notes**

- Lighting load interfaces must be matched to load type and voltage
- All load interfaces for dimmed load are controlled by a 120 V 3-wire fluorescent dimmer
- Power feed to dimmer may differ from lighting load/interface voltage
- Interfaces typically require additional power feeds
- For wiring information, consult wiring diagrams, see pgs. 193-195
- For assistance and additional solutions, consult Lutron Technical Support at 1.800.523.9466 (24 hours/7 days)

# Interface mounting

- PHPM interfaces mount to 2-gang electrical backbox (W: 6.30 in x H: 5.10 in)
- GRX-TVI enclosure is surface mount only (W: 6.10 in x H: 12.50 in x D: 3.30 in)

# Use only dimmer model numbers listed.

\*Dual 120/277 V model given, 120 V only versions are also available. Please see Technical notes, pg. 179.

# Appendix | Wiring diagrams

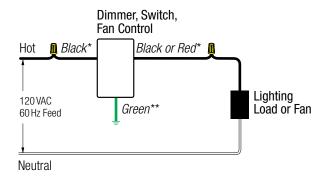
Wiring diagrams are for reference. The most up-to-date information is supplied with product installation sheets.

Wiring diagram #1 Single-pole wiring	Wiring diagram #11 Single-pole wiring of multi-location control with neutral wire connection
Wiring diagram #2	NAT: 11 #40
Single-pole wiring of 3-way controls	Wiring diagram #12 Line side multi-location wiring with
Wiring diagram #3	neutral wire connection
Single-pole wiring with neutral	
wire connection	Wiring diagram #13 Multi-location switch wiring with
Wiring diagram #4	neutral wire connection
Single-pole wiring of a 3-way control with	
neutral wire connection	Wiring diagram #14
	Vareo® switch wiring with
Wiring diagram #5	neutral wire connection
3-way wiring with neutral	
wire connection	Wiring diagram #15
	Nova T☆® Omnislide wiring186
Wiring diagram #6	
3-way wiring	Wiring diagram #16
o way willing	AC motor wiring of double-pole,
AAP. Jones all a conseque #27	double-throw switch
Wiring diagram #7	
4-way wiring	Wiring diagram #17
	Wiring diagram #17 Single-pole wiring, fan control
Wiring diagram #8	Single-pole withing, fair control
Single-location wiring of	
multi-location control	Wiring diagram #18
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Wiring diagram #9	
Line side multi-location wiring	Wiring diagram #19
	Single-pole wiring, dual light control 187
Wiring diagram #10	
Load side multi-location wiring	Wiring diagram #20
<u> </u>	Single-pole wiring, dual fan/light control 187

# Appendix | Wiring diagrams

Wiring diagram #21	Wiring diagram #31
Spacer System® wall-mounted master	Single-pole wiring of multi-location
control wiring with dimmers 188	3-wire fluorescent control
Wiring diagram #22	Wiring diagram #32
Spacer System® master control wiring	Multi-location wiring of
with IR blaster (remotely mounted)	3-wire fluorescent control
Wiring diagram #23	Wiring diagram #38
Cable jack wiring189	Single-pole wiring of 0-10 V
	fluorescent control and a PP-277H192
Wiring diagram #24	
Telephone jack wiring, 6-conductor	Wiring diagram #39
	PHPM-WBX-DV-WH with any Lutron®
Wiring diagram #25	3-wire fluorescent control wiring
Telephone jack wiring, 8-conductor	
	Wiring diagram #40
Wiring diagram #26	PHPM-SW-DV-WH with any
Receptacle wiring	Lutron switch
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GFCI receptacle wiring189	PHPM-3F-DV-WH with any Lutron
	3-wire fluorescent control wiring 194
Wiring diagram #28	Wiring diagram #42
Single-pole wiring of 3-way,	GRX-TVI with any Lutron
3-wire fluorescent control	3-wire fluorescent control wiring
Wiring diagram #29	
3-way wiring of 3-wire	
fluorescent control	
Wiring diagram #30	
Single-pole wiring of 3-wire	
fluorescent control	

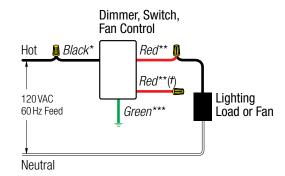
Single-pole wiring



<sup>\*</sup>or Brass screw terminal

# Wiring diagram #2

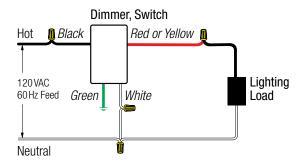
Single-pole wiring of 3-way control



<sup>\*</sup> or Copper/Black screw terminal

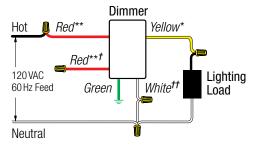
#### Wiring diagram #3

Single-pole wiring with neutral wire connection



# Wiring diagram #4

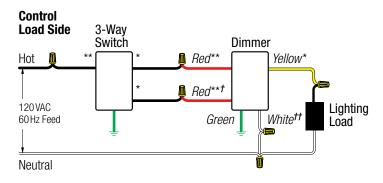
Single-pole wiring of 3-way control with neutral wire connection



<sup>\*</sup>or Copper/Black screw terminal

# Wiring diagram #5

3-way wiring with neutral wire connection



- \*or Copper/Black screw terminal
- \*\* or Brass/Gold screw terminal
- tor Red/White stripe (cap off)
- ttor Silver screw terminal

<sup>\*\*</sup>or Green screw terminal

<sup>\*\*</sup> or Brass/Gold screw terminal

<sup>\*\*\*</sup>or Green screw terminal

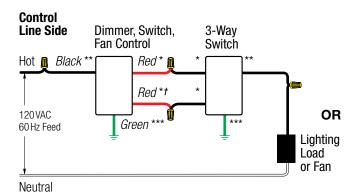
tor Silver screw terminal

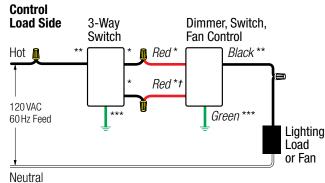
<sup>\*\*</sup>or Brass/Gold screw terminal

tor Red/White stripe (cap off)

ttor Silver screw terminal

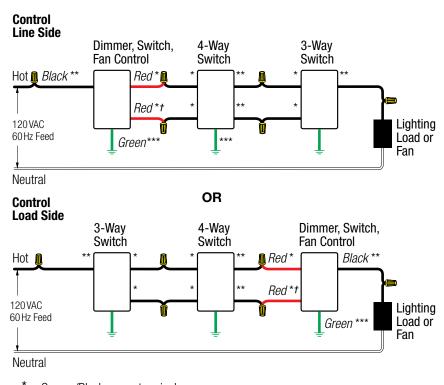
3-way wiring





### Wiring diagram #7

4-way wiring



<sup>\*</sup>or Copper/Black screw terminal

<sup>\*</sup> or Brass/Gold screw terminal

<sup>\*\*</sup> or Copper/Black screw terminal

<sup>\*\*\*</sup> or Green screw terminal

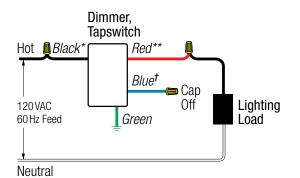
tor Red/White screw terminal

<sup>\*\*</sup> or Brass/Gold screw terminal

<sup>\*\*\*</sup>or Green screw terminal

tor Red/White stripe

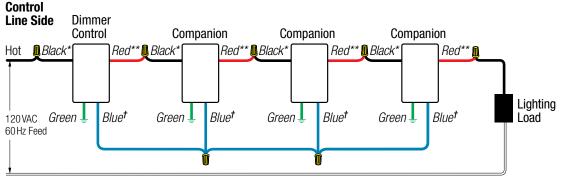
Single-location wiring of multi-location control



\*or Copper/Black screw terminal
\*\*or Brass/Gold screw terminal tor Blue stripe

### Wiring Diagram #9

Line side multi-location wiring



Neutral

Up to Nine Total Companion Dimmers

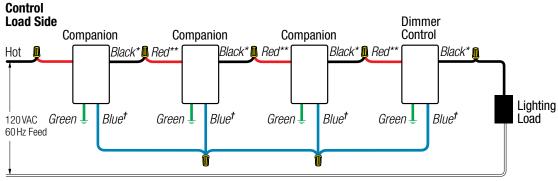
- \*or Copper/Black screw terminal
  \*or Brass/Gold screw terminal

tor Blue stripe

Control: Dimmer, Smart Dimmer, Tapswitch Accessory: Accessory Dimmer, Auxiliary Tapswitch

### Wiring diagram #10

Load side multi-location wiring



Neutral

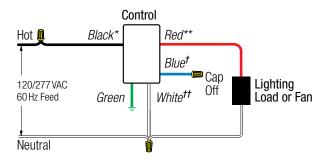
Up to Nine Total Companion Dimmers

- \*or Copper/Black screw terminal
- \*\* or Brass/Gold screw terminal

Control: Dimmer, Smart Dimmer, Tapswitch Accessory: Accessory Dimmer, Auxiliary Tapswitch

tor Blue stripe

Single-pole wiring of multi-location control with neutral wire connection

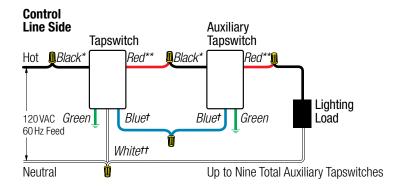


- \*or Copper/Black screw terminal
- \*\*or Brass/Gold screw terminal
- tor Blue screw terminal
- ttor Silver screw terminal

Control: Dimmer, Smart Dimmer, Electronic Switch, Tapswitch

### Wiring diagram #12

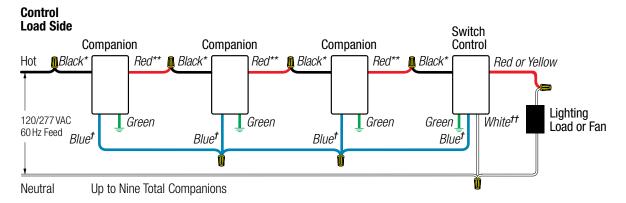
Line side multi-location wiring with neutral wire connection



- \*or Copper/Black screw terminal
  \*\*or Brass/Gold screw terminal
- tor Blue screw terminal
- ttor Silver screw terminal

# Wiring diagram #13

Multi-location switch wiring with neutral wire connection



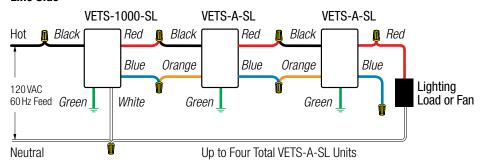
Control: Dimmer, Smart Dimmer, Electronic Switch, Tapswitch Accessory: Accessory Dimmer, Accessory Switch, Auxiliary Tapswitch

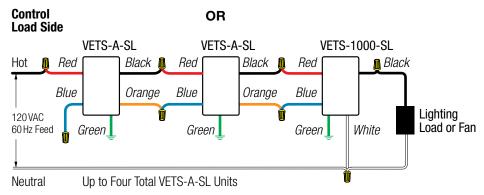
- \*or Copper/Black screw terminal
- \*\*or Brass/Gold screw terminal
- tor Blue screw terminal

ttor Silver screw terminal

Vareo® switch wiring with neutral wire connection

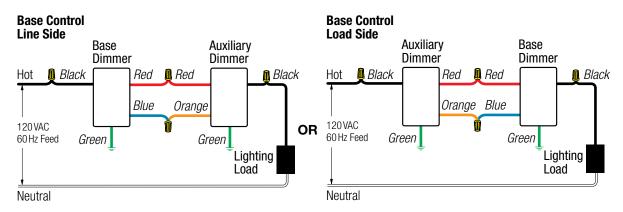
#### Control Line Side



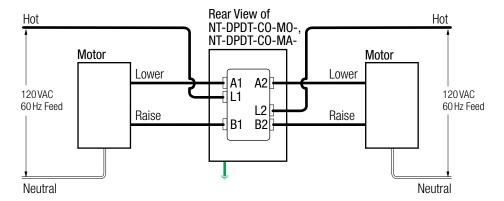


# Wiring diagram #15

Nova T☆® Omnislide™ wiring

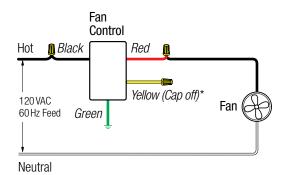


AC motor wiring of double-pole, double throw switch



# Wiring diagram #17

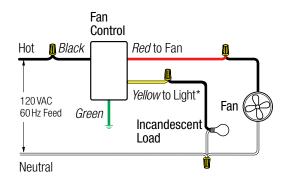
Single-pole wiring, fan only control



<sup>\*</sup>Switched full voltage only

# Wiring diagram #18

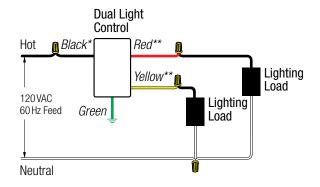
Single-pole wiring, fan and light control



<sup>\*</sup>Switched full voltage only

### Wiring diagram #19

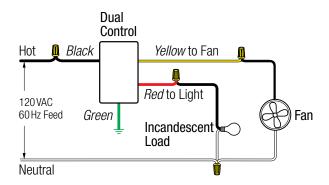
Single-pole wiring, control



<sup>\*</sup>or Black screw terminal

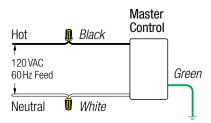
### Wiring diagram #20

Single-pole wiring, dual fan/light control

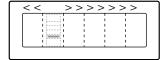


<sup>\*\*</sup>or Brass/Gold screw terminal

Spacer System® wall-mounted master control wiring with dimmers



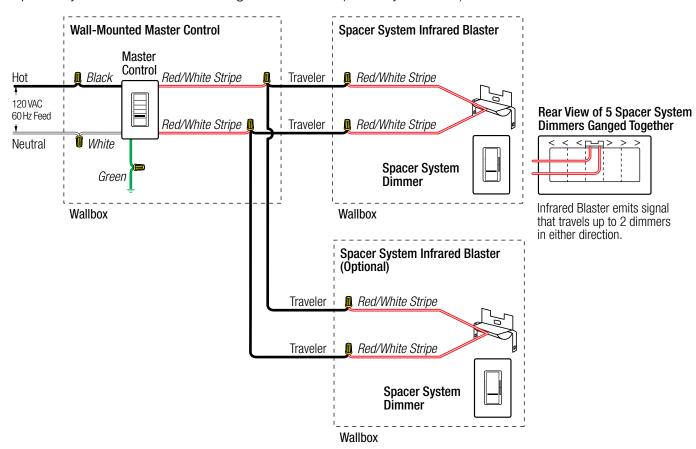
# Rear View of Spacer System Dimmers and SPS-5WC- Ganged Together



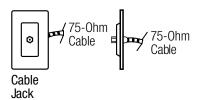
SPS-5WC- emits signal that travels up to 4 dimmers in either direction.

# Wiring diagram #22

Spacer System master control wiring with IR blaster (remotely mounted)

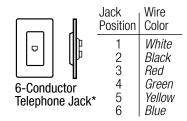


Cable jack wiring



# Wiring diagram #24

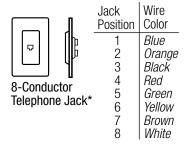
Telephone jack wiring, 6 conductor



<sup>\*</sup>Accepts most 4-conductor jacks

# Wiring diagram #25

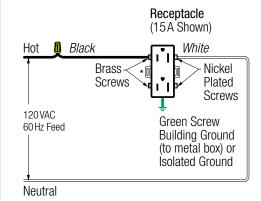
Telephone jack wiring, 8 conductor



<sup>\*</sup>Accepts most 4- or 6-conductor jacks

# Wiring diagram #26

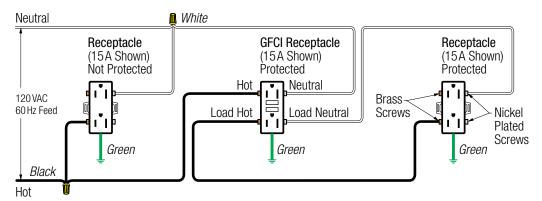
Receptacle wiring



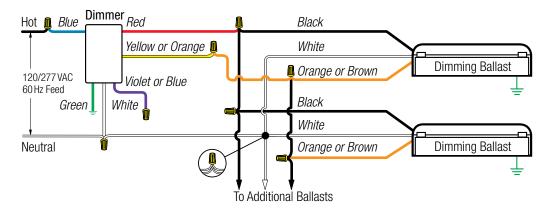
<sup>\*</sup>For split circuit wiring, break off tab on brass side only

# Wiring diagram #27

GFCI receptacle wiring

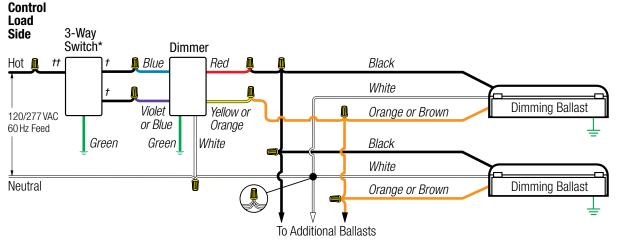


Single-pole wiring of 3-way, 3-wire fluorescent control



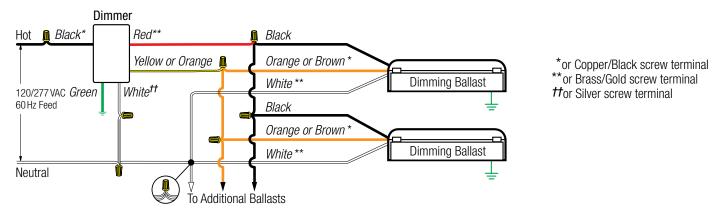
# Wiring diagram #29

3-way wiring of 3-wire fluorescent control



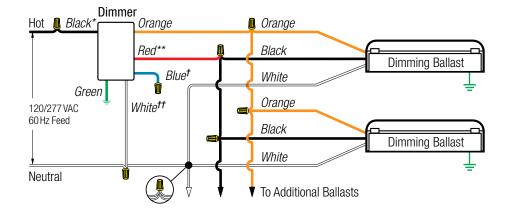
\*\*for Copper/Black screw terminal \*\*tfor Brass/Gold screw terminal \*\*

Single-pole wiring of 3-wire fluorescent control



# Wiring diagram #31

Single-pole wiring of multi-location 3-wire fluorescent control



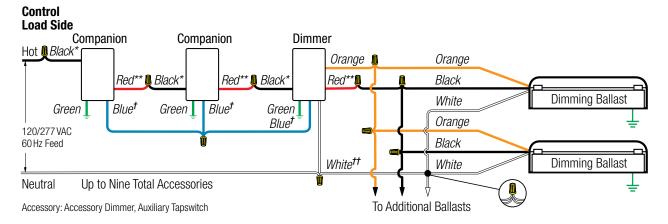
\*or Copper/Black screw terminal

\*\*or Brass/Gold screw terminal

tor Blue screw terminal

ttor Silver screw terminal

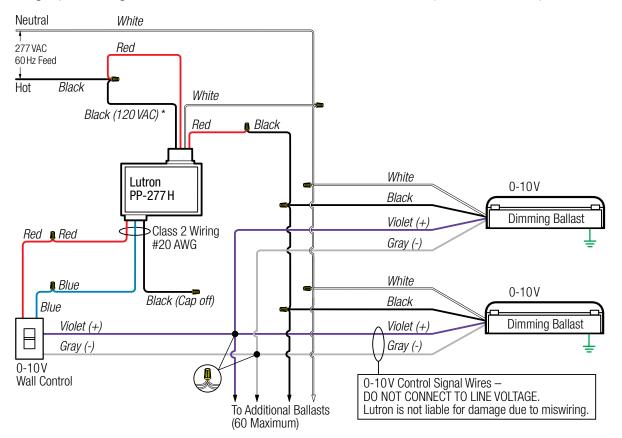
Multi-location wiring of 3-wire fluorescent control



<sup>\*</sup>or Copper/Black screw terminal

#### Wiring diagram #38

Single-pole wiring of 0-10V fluorescent control and a Power Pack (PP-277H shown)



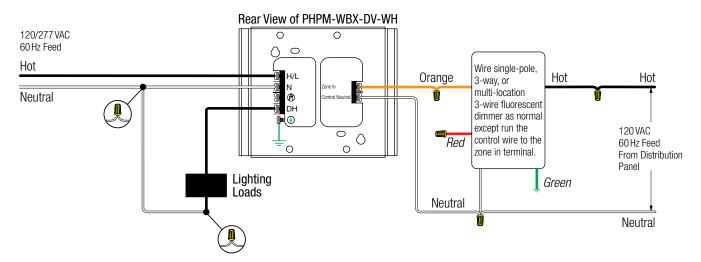
<sup>\*</sup>Wiring is similar for PP-120H, PP-230H, and PP-347H For PP-20, contact Lutron Technical Support at 1.800.523.9466

<sup>\*\*</sup> or Brass/Gold screw terminal

tor Blue screw terminal

*tt*or Silver screw terminal

Power interfaces with 3-wire fluorescent control wiring: Incandescent/halogen/magnetic low-voltage/electronic low-voltage

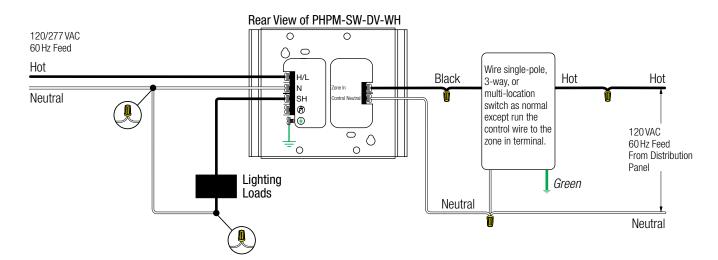


For neon/cold cathode loads, the B-wire dimmers low-end trim needs to be adjusted. Select a 3-wire dimmer that has an adjustable low-end trim. \*For Tu-Wire® loads replace PHPM-WBX-DV with a PHPM-PA-DW and wire the same

#### Wiring diagram #40

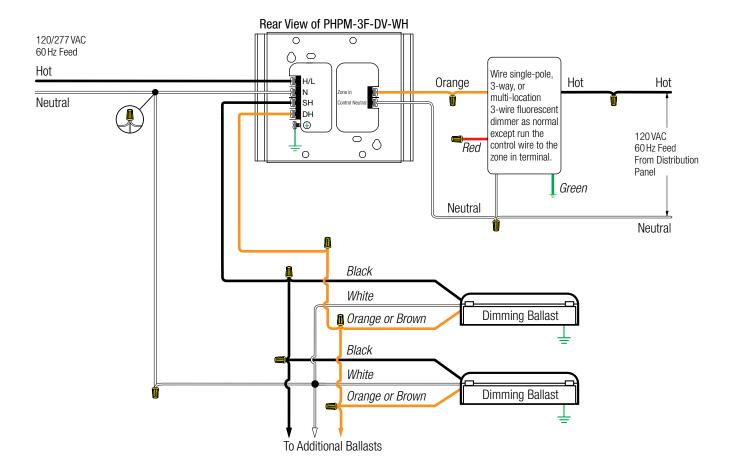
Switching power interface:

Incandescent/halogen, MLV, ELV, Magnetic and Electronic fluorescent ballasts, HID



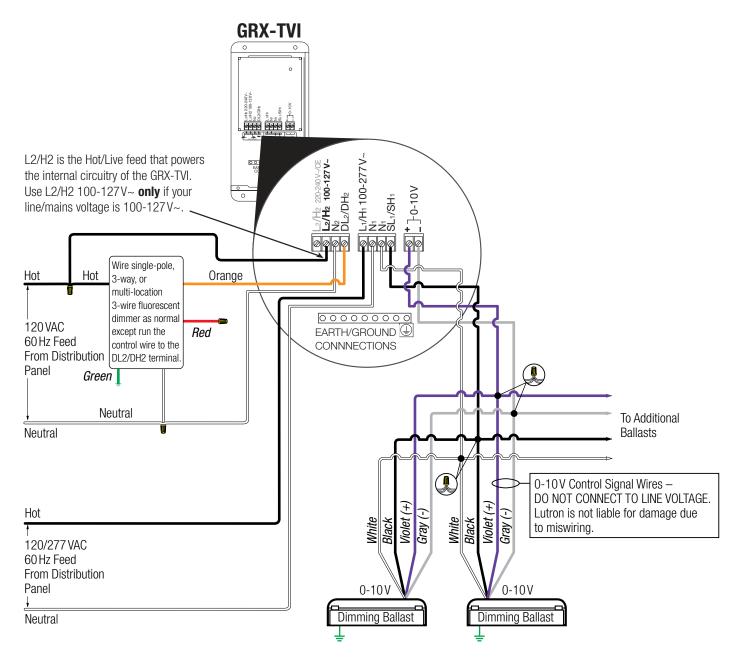
<sup>\*</sup>Also compatible with motor loads.

Fluorescent dimming ballast interface (PHPM-3F-DV-WH) with 3-wire fluorescent dimmer wiring



0-10 V power interface (GRX-TVI) with 3-wire fluorescent dimmer wiring:

0-10V fluorescent ballast wiring shown



Some 0-10 V LED and fluorescent loads require low-end trim adjustments. Select a 3-wire dimmer that has an adjustable low-end trim. \*0-10 VDC sink control

#### 0-10V Control

0-10V is an analog lighting control protocol. A 0-10V control modifies a voltage between 0 and 10 volts DC to produce a varying intensity level. There are two existing 0-10V standards; and they are not compatible with each other, so it is essential to understand which type is required. The two 0-10V control types are 1) current source (theatrical dimming standard ESTA E1.3) and 2) current sink (dimming ballast standard IEC Standard 90626).

#### 3-way Dimmer with Switches

3-way dimmers adjust the light level from one location. When used with 3-way and 4-way switches, the lights can be switched On to the dimmer level from additional locations (a 3-way switch is for two locations; 4-way switch is for three or more locations).

#### Air Gap Switch

A safety feature in all Lutron controls for true "off" function by disconnecting power to a lighting load. The switch physically separates two contacts, resulting in an air gap between the contacts. The switch is visible and front accessible. Styles will vary for each dimmer type.

#### **Amperes/Amps**

Unit of measurement of electrical current.

#### **Astronomical Time Clock**

A time switch device that is programmed for a specific geographic location to provide automatic timed event control of lights and/or shades. The programmed time is coordinated with daily variations of sunrise and sunset times that change throughout the year.

#### Backbox (Wallbox, Switchbox)

A wall mounted metal or plastic enclosure housing one or more electrical devices (available in single or multiple gangs). Standard USA 1-gang size is used for Lutron domestic controls (3 in high x 2.5 in deep). See page 169 for further information.

#### **Ballast**

An electrical device required to operate all fluorescent and high intensity discharge (HID) lamps. Ballasts furnish the necessary voltage and current for starting and operating the lamp(s). Internationally, it is sometimes referred to as control gear.

### Compact Fluorescent Lamp (CFL)

A high efficiency lamp type that can only be dimmed using a matching dimming ballast and dimmer. Standard lamp types are Twin Tube, Quad Tube and Triple Tube. They are available in 2-pin and 4-pin versions. Both require an external ballast located in the fixture to operate, 2-pin versions are not dimmable, and 4-pin versions are dimmable when used with a dimming ballast. "Screw-in" CFLs are designed to replace incandescent lamps in existing fixtures, but most are not dimmable. Some can be dimmed, with a specific type of dimmer. Confirm the compatibility of CFL lamp and dimmer before installing these lamps.

#### **Companion Dimmer**

Allows for dimming from two or more wall locations when used with a compatible multi-location dimmer.

#### **Companion Switch**

Allows for switching from two or more wall locations when used with a compatible multi-location switch.

#### **Daylight Sensor**

A device that monitors changes in available daylight. Typically ceiling or luminaire mounted, the sensor provides a feedback signal for automatic dimming or switching of electric lighting.

#### **Derating**

In relation to Lutron wallbox dimmers, the reduction of the power (Wattage) or current (Amps) capacity that a wallbox dimmer can reliably handle. Dimmers must be derated when side sections of the mounting yoke or fin have been removed from the unit to allow for ganging. See page 170.

#### **Digital Fade Dimmers**

Lutron dimmer types that provide a gradual fade-to-off/fade-to-on feature when the switch is pressed, as compared to the more traditional slide-to-off or rotary dimmers that turn on/off with immediate response. Digital fade dimmers also include LED indicator lights to show the relative light level in the room.

#### Dimmer

An electronic control device used to vary the intensity of light output from a lamp source. Electronic dimmers reduce light level by reducing the power delivered to the lamp source. This provides energy savings. It also provides longer lamp life for incandescent, halogen and low voltage sources (e.g., 10% dimming doubles the expected lamp life).

#### **Double-tap**

A feature of some Lutron products in which two fast presses (in quick succession) bring lights on to full intensity, temporarily overriding any preset light level.

#### **Driver**

Auxiliary device needed to provide the correct power to operate an LED light source. The driver regulates the voltage and current to the LEDs. Dimmable drivers also vary the intensity of light output by reducing current or voltage.

#### **Dual Device**

A combination dimmer, switch, timer or fan control that offers independent control of two groups of lights or fans, and only takes up one gang electrical backbox.

#### eco-dim<sub>®</sub>\*

A Lutron dimmer that guarantees at least 15% energy savings compared to standard switches, and also provides 3x longer lamp life.

#### eco-minder™\*

A Lutron dimmer with LED lights that turn from red to green to demonstrate when you are saving 15% or more energy as compared to a standard switch.

For more detailed glossary of terms, go to www.lutron.com/glossaryofterms.

\*Visit www.lutron.com/ecohome for models.

#### eco-timer\*

A Lutron timer switch that automatically turns a fan or light off after a set period of time. It includes LED indicators that change as the time counts down. A one-minute blink warning signals when lights or a fan are about to be turned off.

#### Electronic Low-Voltage (ELV)

A low-voltage incandescent or LED lighting source that uses a solid-state electronic transformer or driver to step down the incoming line voltage to the voltage required by the lamp (typically 12 V). Most ELV transformers are dimmable and use reverse phase control (trailing edge) ELV dimmers. Track and recessed down lights can be electronic low-voltage or magnetic low-voltage. ELV transformers should only be used with an ELV type dimmers.

#### **Electronic Switch**

Electronic switches use semiconductor device(s) to turn on and off the current flow into the load. They also include a mechanical disconnect or air-gap switch to manually disconnect power for safety when replacing lamps. These switches typically need to be derated when ganged. Electronic switches can only be used with the type of loads that they are approved to operate and are listed under UL1472 or UL508.

#### **Electrostatic Discharge Protection**

Lutron products are designed to withstand static discharges (static shocks) common in dry climates, up to 16 kiloVolts, without damage or loss of memory.

#### **Fade Time**

The total time it takes the lighting controlled by a dimmer to change from one preset level to another. The time can be set from 0 seconds to 60 minutes.

#### **Fan-motor Hum**

The noise made by a fan motor at lower speeds when controlling the fan using fully variable technology. Lutron has quiet 3-speed and 7-speed controls that do not cause the fan motor to hum.

#### Fin

The raised vertical metal dividers or side sections on certain Lutron dimmers—these serve as "heat sink" to dissipate heat.

#### Fins Broken (FB)

When ganging dimmers, a portion of the fins (heat sink) must be removed to install dimmers together in a standard backbox, using standard size wallplates. The dimmer's wattage capacity must be derated. Also see Ganging and Derating. See page 170.

#### **Fluorescent Lamp**

A low intensity "discharge" lamp that produces light when electric current passes through mercury gas. The resulting arc produces ultraviolet energy, which causes the phosphor coating on the inside of the glass envelope to produce light. Fluorescent lamps require a ballast to start the lamp and maintain the light output. Fluorescent dimming ballasts are available for most fluorescent lamps to be dimmed down to as low as 1% of the lamps maximum measured light output.

#### **Fully Variable Fan Control**

A fully variable fan speed control offers full control of a fan motor over a continuous range. It can be used for controlling one or more ceiling paddle fan(s) or exhaust fan(s). Also see Quiet 3-Speed Fan Control or Quiet 7-Speed Fan Control.

#### Ganging

Mounting one or more dimmers, switches, receptacles or controls side-by-side, in a series of connected (ganged) backboxes.

#### **Ground Fault Circuit Interrupter (GFCI)**

A circuit protection device that monitors current flow, and quickly de-energizes a circuit when the current returning on the neutral wire is less than what is going out on the hot wire (difference  $\geq 6\,\text{mA}$ ). It is intended to provide protection from potentially dangerous ground-fault currents.

#### **Halogen Lamp**

A higher efficiency incandescent lamp in which halogen is added to the fill gas, and the lamp has a quartz glass inner envelope. These additions allow the lamp to operate more efficiently at a higher physical temperature and therefore, a higher color temperature and they have a longer life (also called quartz halogen or tungsten halogen).

#### **Incandescent Lamp**

An electric lamp in which a filament gives off light when heated by an electric current. Standard light bulbs are incandescent line voltage (120 Volt). They offer excellent color rendering, and are simple to replace. Newer incandescent types are halogen lamps.

#### Infrared (IR)

Signals in the frequency range just below visible light. IR signals are often used for remote control of televisions and other audio video products. Several Lutron products use IR signals for on/off control, selecting presets and providing raise/lower control of lighting and/or shades. Lutron hand-held remote controls transmit IR signals to the control device's IR receiver. Remote controls by other manufacturers can also be used, allowing one remote to control many different components, including the lighting and shades.

#### **Infrared Receiver (IR Receiver)**

A component that receives signals from an IR transmitter. Receivers require line-of-sight for functionality. Lutron products with IR receivers include dimmers, control units and shading products.

#### **Infrared Transmitter (IR Transmitter)**

A component such as a IR remote control that transmits signals to an IR receiver.

#### Lamp Debuzzing Coil

An inductor connected between the control and the load to minimize lamp or transformer buzz, and radio frequency interference.

#### **Lamp Life**

Average rated time period of the operation of a lamp before it fails to produce light. For incandescent and fluorescent lamps, manufacturers define this as the point in time when 50% of the lamps have failed. LED lamp life is defined as when the light output from the LED falls below 70% of it's maximum lumen output.

#### **LED (Light Emitting Diode)**

LEDs are an energy efficient light source. They have up to 50,000 hour life, are substantially cooler to the touch, and provide more direct light, which equates to less wasted energy. White LEDs are commonly used in commercial and residential projects, while Red, Green, Blue (RGB) LEDs are used in signage, traffic lights, and multi-colored lighting effects. For detailed information on LEDs, go to www.lutron.com/led.

#### **LED Driver**

Auxiliary device(s) needed to operate LED lamps. They operate by regulating both the voltage and current power that the LED's source. There are both dimming and non-dimming types.

#### **Linear Slide Dimmer**

A Lutron dimmer that controls the light level by sliding a knob up or down to the selected light level.

#### **Locator Light**

A small indicator light on some dimmers and accessory controls that remains illuminated to help a user locate the control in a dark space.

### Magnetic Low-Voltage (MLV)

A low-voltage incandescent lighting source that uses a magnetic transformer to step down the incoming line voltage to that required by the lamp (typically 12 V). Track and recessed lights can be magnetic low-voltage. Magnetic low-voltage transformers tend to be larger and heavier than electronic low-voltage (ELV) transformers, and their power consumption must be counted towards dimmer load.

#### **Mechanical (General Purpose) Switch**

The common wall switch that is used to turn on/ off lighting or other loads. A general-purpose switch typically comes in single pole, 3-way and 4-way varieties, and sometimes will include a locator light that is either an LED or neon indicator lamp. Mechanical switches typically do not need to be derated when ganged.

For more detailed glossary of terms, go to www.lutron.com/glossaryofterms.

#### **Multi-Location Dimming**

The ability to provide dimming of a lighting load from two or more locations. A multi-location capable dimmer must be used with specific companion dimmers or accessory dimmers. Standard 3-way/4-way wiring can be used.

#### Neon/Cold Cathode (NCC)

Tubular shaped lamps that are typically less than an inch in diameter. They are used for decorative lighting or signage, and are custom shaped to fit into coves, wrap around columns, or shaped into letters (i.e., outdoor signs). Neon lamps are typically thinner diameter and filled with neon or argon gas, and come in a wide range of color. Cold Cathode lamps used in architectural lighting are 1/2" to an inch in diameter, and filled with mercury. These lamps are typically white, but available in a range of color temperature. NCC lamps operate similar to fluorescent lamps. The neon, argon or mercury is ionized by a high voltage applied to the lamp. The ionized gas causes a phosphor coating on the inside of the lamp to produce light. A transformer/ballast is required to start and operate NCC lamps. Many NCC transformers are dimmable. Dimmer type must be matched to transformer type.

#### No Fins Broken (NFB)

Dimmers with no fins broken require additional gangs of backboxes and larger wallplates. They are able to utilize the full wattage capacity of dimmers. Also see Fins Broken.

#### Non-Dimmed Load (Switched Load)

A load that can only be turned on/off and not set at any intermediate lighting level or motor speed. This term can refer to a lighting load, a fan or motor load.

#### Occupancy Sensor

A device that detects the presence/absence of people in a space, and provides automatic switching or dimming of lighting. The primary purpose is to automatically turn lighting off when an area is not occupied, to ensure energy savings. An occupancy sensor will also turn lighting on automatically when it detects a person (Auto On/Auto Off). Also see Vacancy Sensor.

#### **Power Failure Memory**

When power is restored after a power failure, lighting and shading is restored to the same levels set prior to the power-failure. This minimizes the inconvenience of power service interruptions.

#### Preset

Predetermined light intensity (shade position) for a lighting (shade) zone that can be recalled by pressing a single button. Also see Scene.

#### **Quiet 3-Speed Fan Control**

A fan control that offers three pre-set speeds plus off, and can typically be used for controlling one ceiling paddle fan. These fan controls do not cause the motor to hum. Also see Fully Variable Fan Control.

#### **Quiet 7-Speed Fan Control**

A fan control that offers seven pre-set speeds plus off, and can typically be used for controlling up to four ceiling paddle fans. These fan controls do not cause the motor to hum. Also see Fully Variable Fan Control.

#### Radio Frequency (RF)

RF provides a wireless control method for operating lighting, shades and other systems. Lutron utilizes Clear Connect™ RF control technology operating at frequencies in the 400Mhz range that pass through most materials, and are designed to be extremely reliable. Lutron's methods provide less interference to and from other devices.

#### Radio Frequency Interference (RFI)

RFI is generated by most electronic equipment, including solid-state dimmers. RFI can create a buzzing noise in nearby audio and radio equipment. Every Lutron dimmer contains a filter to suppress RFI; additional filtering may be required in some applications. It is recommended to keep dimmers eight feet away from AV and other electronic equipment to minimize RFI interference.

#### **RFI Filter**

An electrical circuit that is part of all Lutron dimmers. It is intended to reduce radio frequency interference (RFI) and lamp buzz.

#### Scene

The lighting effect achieved by adjusting one or more zones of lighting to the desired intensity. Also see Preset.

#### Sensor

A device that detects motion, daylight, heat, partition location, etc., and provides the information to allow for automatic control of lighting, window shading and other building systems.

#### Single-pole Dimmer/Switch

A switch or dimmer that controls a lighting zone from one location only.

#### Slide-to-Off

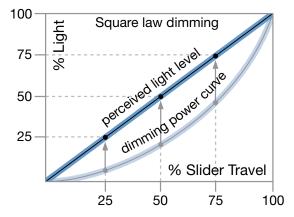
Style of dimming control with a linear slide knob in which the lowest travel position is off.

#### **Smart "Electronic" Dimmers**

Smart dimmers use a microprocessor to set the light level and offer more advanced features, such as multi-location control, RF or IR remote control capability, long fade times, etc. These dimmers typically have a tap switch for on/off, a rocker switch to change light levels and a column of LED's to indicate relative light levels.

#### **Square Law Dimming**

A dimmer or control is calibrated so that the linear slider position or LED indicator column provides a true representation of the light level, as perceived by the user. For example, if the slider is set at the halfway point or one-half or the column of LEDs is lit, the light level appears to be at 50%. Dimmers adjusted in this way will also use the full range of the slider or LED indicator without any "dead" travel at the top or bottom slide position, or indicator LED column.



#### **Status Light**

A light that is bright to indicate when a device is on, and dim when the device is off.

#### **Surge Protection**

Circuitry that protects Lutron products against a surge of 6000 volts, 3000 amps, as recommended by the ANSI/IEEE standard c62.41.

#### **Tap Switch**

An activator of a Lutron dimmer or electronic switch with a flat mechanical button that, when pressed, allows the lights to turn on to a desired preset level, and to turn off when pressed a second time. Dimmer versions have a small slider or rocker that allows the user to adjust the lighting level.

#### Toggle (On/Off)

A switch or keypad button that alternates between two states (typically on/off) with each activation.

#### **Transformer**

A device that changes voltage supply from line voltage (120 V or 277 V) to 24 V, 12 V or 6 V needed for "low voltage" sources. It can be integral to the lighting fixture for low voltage lamps (e.g., MR-16 or Par 36). Standalone remote transformers can supply multiple lamps or luminaires (e.g., for a low voltage lighting strip in a ceiling cove). They can be electronic or magnetic, and dimmers must be matched to either type.

#### Triac

The electronic component responsible for the dimming function in many Lutron dimmers. This component reduces the power to a light by switching on/off very rapidly (120 times-per-second). Lutron products use triacs that are tested to last over ten years.

#### **Tungsten-Halogen Lamp**

See halogen lamp.

#### **Vacancy Sensor**

A device that detects the presence of people in a space, and provides automatic switching or dimming of lighting. The primary purpose is to automatically turn lighting off when an area is not occupied, to ensure energy savings. A vacancy sensor relies on a person operating a manual switch to turn lighting on (manual on/auto off). Also see Occupancy Sensor.

#### Voltage

The electrical potential, measured in Volts (V), supplied by an electrical system. In the US, the standard voltage systems operate at a 60Hz frequency. In residential applications, the standard service is referred to as 120/240 V, commonly known as a single-phase system. Commercial buildings have two common service types. In smaller buildings, it is 120/208 V, known as a three phase service. The interior lighting in these applications generally uses 120 V feeds. In larger buildings, the primary service is 277/480 V, which is also known as three phase service. The interior lighting in these applications generally uses 277 V feeds.

#### **Voltage Compensation**

Special circuitry that maintains consistent power delivered to the lamp, in the event of line-voltage variations.

#### Wallplate

A decorative faceplate that covers a dimmer or lighting control by attaching to the front of the unit. Lutron wallplates have no visible screws and are available in up to 6-gang, with seamless appearance, in a wide variety of colors and finishes.

#### Watt (W)

Basic unit of measurement for electrical power.

#### Zone

A lighting fixture or group of fixtures that are controlled simultaneously. An example would be two wall sconces wired together and controlled with one dimmer. Window shades can also be grouped together as zones.

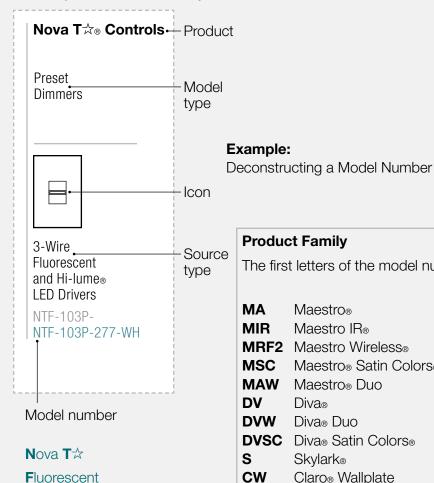
For more detailed glossary of terms, go to www.lutron.com/glossaryofterms.

#### How to use this section

The visual index provides an alphabetical summary of each control family, with available models and model numbers.

Lutron® wallbox products have a pre-assigned model number, which are easy to understand. Each group of letters or numbers represents basic product information.

# **Example:** Visual Index Entry



# **Load Type**

All other letters before the hyphen represent the load type. If there is no other lettering, the dimmer is incandescent.

LV Magnetic Low Voltage **ELV** Electronic Low Voltage

F Fluorescent FS Fan Speed

Q Quiet Fan Speed AD

**Accessory Dimmer** AS Accessory Switch

Remote

Rotary

F

L Light

R

TU Tu-wire®

NT

# **Product Family**

Maestro<sub>®</sub>

MA

The first letters of the model number represent the product family.

D

MIR	Maestro IR®	VT	Vierti <sub>®</sub>
MRF2	Maestro Wireless®	V	Vareo <sub>®</sub>
MSC	Maestro® Satin Colors®	NT	Nova T☆®
MAW	Maestro® Duo	N	Nova®
DV	Diva <sub>®</sub>	С	Centurion <sub>®</sub>
DVW	Diva <sub>®</sub> Duo	LX	Lyneo <sub>®</sub> Lx
DVSC	Diva® Satin Colors®	AB	Abella <sub>®</sub>
S	Skylark <sub>®</sub>	CN	Ceana®
CW	Claro® Wallplate	FW/FG	Fassada®
CA	Claro® Accessory	TT	Credenza <sub>®</sub>
AY	Ariadni <sub>®</sub>	LC	Attaché®
GL	Glyder®	SC	Satin Color

rs® Accessory **FS** Rotary Fan Control **SPS** Spacer System®

**1000** Watt

**3**-way

Preset

**277** Volt White

# Maximum Wattage

Indicated by the first two, three or four numbers:

# **Additional Features**

Letters that follow the wattage (prior to the hyphen) indicate other special features:

P Preset

**NL** Night Light

H Clamshell Packaging

W With Wallplate

**DC** Dimmable Compact

Fluorescent

### Voltage

Operating Voltage is 120V unless indicated

**277** 277 volt

10

3

P

277

WH

# Single-pole or 3-way

Indicated by the number at the end of the wattage:

Single-pole3-way

3 3-wayM Multi-location

**277** 277 Volt

2 Dual Control

# Color Suffix\*

To order the specific color desired, add the color suffix to the end of the model number:

WH	White	SN	Satin Nickel	BG	Bluestone
IV	lvory	QΖ	Antique Bronze	PL	Plum
AL	Almond	BB	Bright Brass	SG	Sea Glass
LA	Light Almond	BRA	Brass Anodized	TQ	Turquoise
BE	Beige		Aluminum	GS	Goldstone
TP	Taupe	SB	Satin Brass	DS	Desert Stone
GR	Gray	QB	Antique Brass	GB	Greenbriar
SI	Sienna	BLA	Black Anodized	MS	Mocha Stone
BR	Brown		Aluminum	TC	Terracotta
BL	Black	SN	Snow	HT	Hot
BN	Bright Nickel	LS	Limestone	MR	Merlot
BC	Bright Chrome	BI	Biscuit	MN	Midnight
CLA	Clear Anodized	ES	Eggshell	SS	Stainless Steel
	Aluminum	PD	Palladium		
SC	Satin Chrome	ST	Stone		

\*Some colors not available with certain families. Consult family pages or contact customer service.

Abella <sub>®</sub> Controls pg. 114				1 33 32 33 33 3 3 3 3 3	<b>ols</b> pg. 124	
Digital Fade Dimmers	Digital Switch	Companion Dimmer	Companion Switch	Preset Dimmers		
Incandescent/ Halogen AB-600M- AB-1000M-  Magnetic Low-Voltage ABLV-600M- ABLV-1000M-	Switched Lighting or Fan AB-S6AM-	Companion Dimmer AB-AD-	Companion Switch AB-AS-	Incandescent/ Halogen AY-600P- AY-10P- AY-603P- AY-103P-  Incandescent/ Halogen— eco-dim® AY-603PG-	Magnetic Low-Voltage AYLV-600P-AYLV-603P-  3-Wire Fluorescent and Hi-lume® LED Drivers AYF-103P-AYF-103P-277	

# Ceana® Controls pg. 120 General Purpose Preset Dimmers Preset Fan Preset Fan/ **Preset Dimmers** with Locator Light Control Light Control Switches $\blacksquare$ H þ Quiet 3-Speed Incandescent/ Quiet Incandescent/ Any Switched Halogen 3-Speed Halogen Lighting or AYFSQ-Fand Motor Load AY-600PNL-CN-600P-Incandescent/ CN-1PS-AY-10PNL-CN-10P-Halogen AY-603PNL-CN-603P-CN-1PS-277-Dimmer CN-3PS-AY-103PNL-CN-103P-AY2-LFSQ-CN-3PS-277-[þ Magnetic Low-Voltage CNLV-600P-CNLV-603P-

# Centurion® Controls pg. 42

Dimmers with Rotate On/Off Knob



Incandescent/ Halogen

C-600-C-1000-



Incandescent/ Halogen

C-1500-C-2000-

**Rotary Dimmers** (Push On/Off)



Incandescent/ Halogen

C-600P-C-10P-C-603P-C-103P-

# Diva® Controls pg. 86

Dimmers with Locator Light



Incandescent/ Halogen

DV-600P-DVSC-600P-DV-10P-DVSC-10P-DV-603P-DVSC-603P-DV-103P-

DVSC-103P-



Incandescent/ Halogen eco-dim<sub>®</sub>

DV-603PG-



Tu-Wire® Fluorescent

DVFTU-5A3P-DVSCFTU-5A3P-



Electronic Low-Voltage

DVELV-300P-DVSCELV-300P-DVELV-303P-DVSCELV-303P-



Philips Energy Saver Dimmable CFL

DVPDC-203P-



Magnetic Low-Voltage

DVLV-600P-DVSCLV-600P-DVLV-10P-DVSCLV-10P-DVLV-603P-DVSCLV-603P-DVLV-103P-DVSCLV-103P-



3-Wire Fluorescent and Hi-lume® **LED Drivers** 

DVF-103P-DVSCF-103P-DVF-103P-277-DVSCF-103P-277-



0-10 V Fluorescent and LED Drivers

DVTV-DVSCTV- Fan Controls



Quiet 3-Speed

DVFSQ-F-DVSCFSQ-F-DVFSQ-F-HO-

# Glyder® Controls pg. 130 Claro®/Satin Claro<sub>®</sub>/Satin Dimmers with Slide-To-Off Slide-To-Off Fan Colors® General Colors® General On/Off Switch Dimmers Control Purpose Switches Purpose Switches with Locator Light **--**Incandescent/ Incandescent/ Fully Variable Any Switched Any Switched Lighting or Lighting or Halogen Halogen GFS-5E-Motor Load Motor Load GL-600P-GL-600-CA-1PSH-CA-1PSNL-GL-10P-GL-1000-GL-603P-SC-1PS-SC-1PSNL-CA-3PSH-CA-3PNSL-GL-103P-SC-3PS-SC-3PSNL-**-**CA-4PSH-CA-4PSNL-SC-4PS-SC-4PSNL-Magnetic Low-Voltage GLV-600-

#### Lyneo® Lx Controls pg. 94 Maestro® Controls pg. 46 **Preset Dimmers** Switches with Preset Fan Digital Fade with Locator Light Locator Light Control Dimmers þ þ þ Incandescent/ Magnetic Switched Quiet 3-Speed Incandescent/ Magnetic Halogen Low-Voltage Lighting or Halogen Low-Voltage LXFSQ-F-1HP Motor LX-600PL-LXLV-600PL-MA-600-MALV-600-Loads LX-10PL-LXLV-10PL-MSC-600M-MALV-1000-LX-603PL-LXLV-603PL-LX-1PSL-MA-1000-MSCLV-600M-LX-103PL-LXLV-103PL-LX-3PSL-MSC-1000M-MSCLV-1000M-LX-4PSL þ 3-Wire Electronic Incandescent/ 3-Wire Low-Voltage Fluorescent Halogen Fluorescent and Hi-lume® eco-dim® and Hi-lume® LXELV-600PL-**LED Drivers** LED Drivers LXELV-603PL-MA-600G-LXF-103PL-MAF-6AM-LXF-103PL-277-MSCF-6AM-MAF-6AM-277-MSCF-6AM-277-Electronic Low-Voltage MAELV-600-MSCELV-600M-Incandescent/ Halogen eco-minder™ MA-600I-

Digital Fan Switches with **Dual Devices** Switches and Dimmers with **Timers** Controls Occupancy/Vacancy Occupancy/Vacancy Sensor Sensor Digital Switch Quiet 7-Speed Incandescent/ Switch with **Dual Dimmers** Dual Dimmer/ for Lighting Halogen with Occupancy/ (Two Loads) **Timer Control** MA-FQ4FM-Occupancy/ Vacancy Sensor (Two Loads) or Fan Incandescent/ Vacancy Sensor MS-OPS5AM-MA-S8AM-Halogen Incandescent/ MSC-S8AM-MS-OP600M-MS-VPS5AM-**Dimmers** Halogen MSCF-S6AM-277-MS-VP600M-(Vacancy Model) Dimmer MA-L3L3-MAF-S6AM-277-(Vacancy Model) Switched Lighting or Preset Fan Timer Fan/Light MA-L3T251-Control Incandescent/ Halogen Dual Dimmer/ Countdown Switch Dimmer Timer Switch (Two Loads) for Lighting Quiet 7-Speed or Fan Incandescent/ MA-I FOHW-(5–60 Minutes) Halogen MA-LFQM-Dimmer MA-T51-MA-T51MN-Switched Lighting or Fan MA-L3S25-Fan canopy module CM-FQ1 Countdown eco-timer Control Switch for Lighting or Fan (5-30 Minute Limit) MA-T530G-

# Maestro® Controls

(continued) pg. 46

Companion Controls



# Companion Dimmer

MA-R-MSC-AD-MA-R-277-MSC-AD-277-



Companion Switch

MA-AS-MSC-AS-MA-AS-277-

Companion

Fan Control

MA-AFQ4-

Companion

MA-ALFQ35-

Fan/Light

Control

# Maestro IR<sub>®</sub> Controls pg. 60

Digital Fade Dimmers



# Incandescent/ Halogen\*

MIR-600-MIR-1000-MIR-600M-MIR-1000M-MIR-600T-MIR-1000T-MIR-600MT-MIR-1000MT-MIR-603THW-



# Magnetic Low-Voltage

MIRLV-600-MIRLV-1000-MIRLV-600M-MIRLV-1000M-



Electronic Low-Voltage

MIRELV-600-MIRELV-600M-

# Digital Fan and Dual Fan/Light Controls with IR Remotes



Quiet 7-Speed\*

MIR-FQ4FMT-MIR-FQ4FM-



Incandescent/ Halogen Dimmer and Quiet 7-Speed\*

MIR-LFQTHW-MIR-LFQMT-

# Companion Controls



Companion Dimmer

MA-R-



Companion Fan/Light Control

MA-ALFQ35-



Companion Fan Control

MA-AFQ4-



**Dual IR Remote** 

MIR-ITFS-LF-WH



IR Remote

MIR-ITFS-WH (Light Only) MIR-ITFS-F-WH (Fan Only)

\*'T' models include remote control

# Maestro Wireless® Controls pg. 68

Digital Fade Dimmers



Incandescent/ Halogen

MRF2-600M-



Incandescent/ Halogen Lamp Dimmer

MRF2-3LD-



Incandescent/ Halogen Magnetic Low-Voltage

MRF2-6MLV-



Incandescent/ Halogen Magnetic Low-Voltage (Spec Grade)

MRF2-6ND-120-MRF2-10D-120-



3-Wire Fluorescent and Hi-lume LED Drivers MRF2-F6AN-DV-

General Purpose Switches



Any Switched Lighting or Motor Load (Spec Grade)

MRF2-8ANS-120-MRF2-8S-DV-



Any Switched Lighting or Motor Load

MRF2-6ANS-



and Accessories

Companion Dimmer

MA-R-MSC-AD-



Companion Switch

MA-AS-MA-AS-277-MSC-AS-



Companion Controls, Sensors

Picotm Wireless Control (3-Button with Raise/Lower)

MRF2-3BRL-L-



Pico Wireless Control (3-Button)

MRF2-3B-L-



Radio Powr Savr<sub>TM</sub> Occupancy/ Vacancy

Plug-In Module

MRF2-3PD-1-

LRF2-OCRB-P-



Pico Wireless Control (2-Button)

MRF2-2B-L-



Radio Powr Savr Vacancy Model

LRF2-VCRB-P-



Pico Pedestal (Single)

L-PED1-



Radio Powr Savr **Daylight Sensor** 

LRF2-DCRB-WH



Pico Pedestal (Dual)

L-PED2-

# **MeadowLark**® Controls pg. 100

Dimmers with On/Off Switch and Locator Light



Incandescent/ Halogen eco-minder™

MK-600PI-MK-603PI-

# Nova® Controls pg. 34

Slide-To-Off **Dimmers** 



Incandescent/

N-600-N-1000-



3-Wire Fluorescent and Hi-lume® **LED Drivers** 

NF-10-



Magnetic Low-Voltage and Neon/Cold Cathode

NLV-1000-NLV-1500-

Electronic

Low-Voltage

NELV-450-

Fluorescent with Magnetic

Fluorescent

**Ballasts** 

NF-20-NF-30-NF-10-277-NF-20-277-

with Magnetic

Ballasts

NF-10-



N-1003P-

3-Wire

Fluorescent

and Hi-lume

**LED Drivers** 

NF-103P-

3-Wire

Fluorescent

and Hi-lume

**LED Drivers** 

NF-103P-277-

Incandescent/

N-1503P-N-2003P-



Magnetic

NLV-603P-



Magnetic Low-Voltage

NLV-1503P-NLV-2003P-



Halogen



3-Wire

Fluorescent

and Hi-lume

**LED Drivers** 

NF-10-277-

Incandescent/ Halogen

N-1500-N-2000-



Tu-Wire® Fluorescent

NFTU-5A-



Magnetic Low-Voltage and Neon/Cold Cathode

NLV-600-



Incandescent/ Halogen N-603P-

Preset

**Dimmers** 



Halogen



Low-Voltage

NLV-1003P-





0-10 V Fluorescent and LED Drivers

NFTV-

#### Nova T☆® Controls pg. 26 General Slide-To-Off Slide-To-Off Fan Controls Purpose **Dimmers** Switches Fully Variable Any Switched Incandescent/ Electronic Omnislide Lighting or Halogen Low-Voltage Two-Location NFS-6E-Motor Load Dimmer NT-600-NTELV-300-N-1PS-NT-1000-NTB-600-NTELV-600-N-1PS-347-NTB-1000-N-3PS-N-3PS-347-N-4PS-Fully Variable NFS-12E-Incandescent/ 3-Wire Halogen Fluorescent Tu-Wire® and Hi-lume® Fluorescent NT-1500-**LED Drivers** NT-2000-NTFTU-5A-NTF-10-NTFTU-5A-277-NTF-10-277-Magnetic Low-Voltage 0-10V Fluorescent NTLV-600and LED Drivers NTLV-1000-NTLV-600-277-NTFTV-NTLV-1000-277-Magnetic Low-Voltage NTLV-1500-

Nova T☆® Controls (continued) pg. 26							
Preset Dimmers		General Purpose Switches	Double-Pole/ Double Throw Switches	Slide-To-Off Fan- Speed Controls	Companion Control		
Incandescent/ Halogen NT-603P- NT-1003P-  Incandescent/ Halogen NT-1503P-  Magnetic Low-Voltage NTLV-603P- NTLV-1003P-	Magnetic Low-Voltage NTLV-1503P-  3-Wire Fluorescent and Hi-lume® LED Drivers NTF-103P- NTF-103P-277-	Any Switched Lighting or Motor Load NT-1PS- NT-3PS- NT-4PS-	Momentary NT-DPDT-CO-MO-  Maintained NT-DPDT-CO-MA-	Quiet 3-Speed NTFSQ-  Fully Variable NTFS-6E-  Fully Variable NTFS-12E-	Omnislide Auxiliary Unit NTA-2-		

Rotary Controls pg. 134 Dimmers with Dimmers with Dimmer with Fan Controls with Push On/Off Knob Push On/Off Knob Rotate On/Off Rotate On/Off and Locator Light Knob Knob Quiet 3-Speed Incandescent/ Incandescent/ Incandescent/ Halogen Halogen Halogen FSQ-2F-D-600P-DNG-600P-D-600R-D-603P-DNG-603P-Fully Variable FS-5F-Incandescent/ FS-SE-Halogen  $eco\text{-}dim_{\circledR}$ D-603PG-

#### Skylark® Controls pg. 104

Dimmers with On/Off Switch



Incandescent/ Halogen

S-600P-S-10P-S-603P-S-103P-



Electronic Low-Voltage

SELV-300P-SELV-303P-



Incandescent/ Halogen eco-dim®

S-603PG-



Tu-Wire® Fluorescent

SFTU-5A3P-



Philips Energy Saver Dimmable CFL

SPDC-203P-

Dimmers with On/Off Switch and Locator Light



Incandescent/ Halogen

S-600PNL-S-10PNL-S-603PNL-S-103PNL- Slide-To-Off **Dimmers** 



Incandescent/ Halogen

S-600-S-1000Dual Slide-To-Off **Dimmers** 



Incandescent/ Halogen

S2-L-

**LED Drivers** 

SF-10P-SF-12P-277-SF-103P-SF-12P-277-3-

Magnetic

Low-Voltage

SLV-600P-

SLV-603P-

 $\phi$ 

3-Wire Fluorescent and Hi-lume®

## Slide-To-Off Fan Controls



Quiet 3-Speed SFSQ-F-SFSQ-F-HO-



Fully Variable SFS-5E-

#### Slide-To-Off Fan Control and On/ Off Light Switch



Quiet 3-Speed and On/Off Light Switches SFSQ-LF-

#### Dual Slide-To-Off Fan Control and Dimmer



Quiet 3-Speed and Incandescent/ Halogen Dimmer S2-LFSQ-



Fully Variable and Incandescent/ Halogen Dimmer S2-LF-

#### Spacer System® Controls pg. 76

#### Master Controls





Master Controls

SPS-5WC-SPS-5WCR-



#### Incandescent/ Halogen

SPS-600-SPS-1000-SPS-600M-SPS-1000M-SPSW-600H-SPSW-603H-SPSW-600-HTH-SPSW-603-HTH-



3-Wire

Fluorescent

and Hi-lume® **LED Drivers** 

Electronic

Low-Voltage

SPSELV-600-

SPSELV-600M-

Incandescent/ Halogen Lamp Dimmer

SPS-300LD-RP SPS-300LD-HTH-RP





Magnetic Low-Voltage

SPSLV-600-SPSLV-1000-SPSLV-600M-SPSLV-1000M-



Tu-Wire® Fluorescent

SPSFTU-5A-

### Spacer System® Controls (continued) pg. 76 Vareo® Controls pg. 20 Digital Companion Companion Remote **Preset Dimmers Tapswitch** Switches Dimmers Switches Controls Digital 4-Scene Switched Companion Companion Incandescent/ Halogen Switch Switch Remote Lighting Dimmer Control Magnetic or Fan SPS-AS-SPSF-S6A-SPS-AD-Low-Voltage VETS-1000-SPS-AS-277-SPS-4IT-RP SPSF-S6A-277-SPS-AD-277-V-600-VETN-1000-SPSF-S6AM-V-1000-SPSF-S6AM-277-Favorite Scene Remote Control 3-Wire SPS-FSIT-RP Fluorescent and Hi-lume® **LED Drivers** VF-10-

## Vierti® Controls pg. 14 Tapswitch with **Auxiliary Controls Preset Dimmers** Electronic Companion Locator Light Switch Controls Switched Auxiliary Incandescent/ Switched Companion Lighting Tapswitch Dimmer Halogen Lighting or Fan Magnetic or Fan VETS-R-VT-AD-Low-Voltage VETS-1000-SL-VT-S6AM-VT-600-VT-S6AMUNV-VT-600M-VT-1000M-Auxiliary Companion Switch **Tapswitch** VT-ASwith Locator Light Electronic VETS-A-SL-Low-Voltage VTELV-600M-3-Wire Fluorescent and Hi-lume® **LED Drivers** VTF-6AM-

#### Architectural Wallplates & Accessories pg. 152 Wallplates Accessories (Multi-gang controls may require derating) ıØI C 0 D • | | C 1-Gang for 1-Gang for Single Cable Triple **Tamper** Receptacles One Dimmer One Accessory for Split Duplex Jack Telephone Resistant GFCI or Switch VWP-R-Receptacles Jack -Half for NT-CJ-VWP-1-Dimming Use NT-PJ8X3-NTR-15-GFTR-NTR-15-HFDU-NTR-20-GFTR-NTR-20-HFDU-ㅁ ㅁ ı"+ 0 Single 2-Gang for 2-Gang for Telephone Phone/ Two Accessories Receptacle Plug Two Dimmers Isolated Ground Jack Cable for Dimming Use or Switches VWP-2R-Receptacles Jack NT-PJ-RP-FDU-10-WH VWP-2-NT-PJ8CJ-NTR-15-IG-OR-RP-FDU-10-BR NTR-20-IG-OR-D D ·Ø| ıØ| 3-Gang for 2-Gang for Double One Dimmer Dimmers Telephone Tamper Resistant 6-Port Frame or Switches or Switch and Receptacles Jack Receptacles NT-6PF-One Accessory for Duplex VWP-3-NT-PJ8X2-NTR-15-TR-Dimming Use VWP-2CR-NTR-20-TR-VWP-2RC-NTR-15-DFDU-NTR-15-DFDU-4-Gang for Dimmers or Switches

VWP-4-

Designer | Claro<sub>®</sub> & Satin Colors<sub>®</sub>

#### Wallplates & Accessories pg. 160 Connectors for Wallplates 6-Port Frame (Multi-gang controls may require derating) 충 $\Box$ Phone Jack Fiber Jack (8-Conductor, (LC Non-Flush RJ45 Category 3) Mount) 1-Gang 5-Gang CON-1F-LC-WH CON-1P-C3-CW-5-CW-1-SC-1-SC-5- $\Box$ **(** Phone Jack Fiber Jack (8-Conductor, (ST Style) RJ45 Category 5e) CON-1F-ST-WH CON-1P-C5E-0 2-Gang 6-Gang CW-2-CW-6-Cable Jack SC-2-SC-6-Phone Jack (F Style, 75-0hm (8-Conductor, Coaxial Cable) RJ45 Category 6) CON-1C-CON-1P-C6-0 € **BNC Jack** 3-Gang Fiber Jack (BNC Connector, CW-3-(MT-RJ Feed 50-0hm) SC-3-Through) CON-1B-WH CON-1F-MTRJ-WH 0 Fiber Jack 4-Gang (SC Simplex) CW-4-CON-1F-SC-WH SC-4-

# Designer | Claro & Satin Colors Wallplates & Accessories

(continued) pg. 160

Accessories



Single Cable **Jacks** 

CA-CJH-SC-CJ-



Single Phone **Jacks** 

CA-PJH-SC-PJ-



**Tamper Resistant** Receptacles

CARS-15-TR-SCRS-15-TR-SCRS-20-TR-



Receptacles

CAR-15A-SCR-15-SCR-20-



Tamper Resistant GFCI Receptacles

CAR-15-GFTR-SCR-15-GFTR-SCR-20-GFTR-



Receptacles for Duplex Dimming Use

CAR-15-DFDU-SCR-15-DFDU-CAR-20-DFDU-SCR-20-DFDU-



Receptacles for Split Duplex -Half for Dimming Use

CAR-15-HFDU-SCR-15-HFDU-CAR-20-HFDU-SCR-20-HFDU-



Receptacle Plug for Dimming Use

RP-FDU-10-WH RP-FDU-10-BR



6-Port Frames

CA-6PF-SC-6PF-



#### General Purpose Switches

CA-1PSH-SC-1PS CA-3PSH-SC-3PS-CA-4PSH-SC-4PS



#### General Purpose **Switches** with Locator Light

CA-1PSNL-SC-1PSNL CA-3PSNL-SC-3PSNL-CA-4PSNL-SC-4PSNL-

Connectors for 6-Port Frame



Phone Jack (8-Conductor, RJ45 Category 3)

CON-1P-C3-



Fiber Jack (LC Non-Flush Mount)

CON-1F-LC-WH



Phone Jack (8-Conductor, RJ45 Category 5e)

CON-1P-C5E-



Fiber Jack (ST Style)

CON-1F-ST-WH



Phone Jack (8-Conductor, RJ45 Category 6)

CON-1P-C6-



Cable Jack (F Style, 75-0hm Coaxial Cable)

CON-1C-



Fiber Jack (MT-RJ Feed Through)

CON-1F-MTRJ-WH



**BNC Jack** (BNC Connector, 50-0hm)

CON-1B-WH



Fiber Jack (SC Simplex)

CON-1F-SC-WH

#### **Credenza**® and Attaché®

pg. 138 Lamp Dimmers

#### Traditional | Fassada® Wallplates pg. 166

Wallplates (Multi-gang controls may require derating)

# New Architectural Wallplates pg. 148

Wallplates and Accessories (Multi-gang controls may require derating)



Plug-In Lamp Dimmer with Locator Light

TT-300NLH-



1-Gang

FG-1-



2-Gang (1 Large, 1 Small)

FW-2-TD-SS FG-2-TD-





Plua-In Lamp Dimmer

TT-300H-



2-Gang

FG-2-



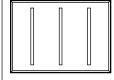
On Cord Lamp Dimmer with Locator Light

LC-300NLH-



3-Gang

FG-3-



Receptacle VTW-RV-AA-CPW0945

LED Color Kit

VT-CK-

Right Side Receptacle

Left Side

VTW-VR-AA-CPW0944

3-Gang

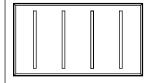
VTW-3-

1-Gang

VTW-1-

2-Gang

VTW-2-



4-Gang

VTW-4-

9

On Cord Lamp Dimmer

LC-300H-

• AA refers to color code, see pg. 151 for additional information

#### Sensors pg. 140

LOS Wall Sensors



Passive Infrared Manual-On Residential

LOS-SIR-M-



Passive Infrared Heavy Duty

LOS-SIR-HD-WH



Passive Infrared

LOS-SIR-



Passive Infrared Two Circuit Heavy Duty

LOS-S2IR-HD-WH

Maestro® Dimmer— Wall Sensors



Incandescent/ Halogen Dimmer with Occupancy/ Vacancy Sensor

MS-OP600M-MS-VP600M-(Vacancy Model) Maestro Switch— Wall Sensors



Switch with Occupancy/ Vacancy Sensor

MS-OPS5AM-MS-VPS5AM-(Vacancy Model) Radio Powr Savr™



Radio Powr Savr<sub>TM</sub> Occupancy/ Vacancy

LRF2-OCRB-P-



Radio Powr Savr Vacancy Model

LRF2-VCRB-P-



Radio Powr Savr Daylight Sensor

LRF2-DCRB-WH

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5,207,317	6,545,434	7,330,004	7,592,925	D547,735	D592,604
5,237,264	6,646,843	7,362,285	7,592,967	D550,632	D592,606
5,248,919	6,727,446	7,408,525	7,608,948	D551,536	D592,611
5,262,678	6,734,381	7,423,413	7,641,491	D557,216	D595,604
5,359,231	6,774,328	7,480,128	7,663,325	D558,151	D596,143
5,399,940	6,839,165	7,489,094	D422,567	D559,198	D596,586
5,499,930	7,105,763	7,489,499	D439,220	D559,791	D597,430
5,510,679	7,116,056	7,542,258	D484,392	D563,901	D597,495
5,637,930	7,142,932	7,546,473	D494,138	D566,048	D597,965
5,798,581	7,190,124	7,548,216	D518,447	D566,052	D601,101
5,909,087	7,190,125	7,564,227	D537,046	D566,659	D602,388
6,005,308	7,193,404	7,566,995	D539,234	D568,828	D603,284
6,169,377	7,198,523	7,566,996	D539,758	D570,299	D604,702
6,300,727	7,242,150	7,570,031	D543,158	D572,202	D604,743
6,310,439	7,247,999	7,573,436	D543,511	D572,667	
6,310,440	7,311,558	7,579,566	D543,951	D581,372	
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#### **Product approvals:**







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