

Troubleshooting

Symptom	Possible Cause
Light does not turn on, but LEDs on control are on.	<ul style="list-style-type: none"> Lamps burned out or not installed properly.
Light does not turn on, and LEDs on Dimmer are off.	<ul style="list-style-type: none"> Breaker is off or tripped. Front Accessible Service Switch (FASS) on the Dimmer is switched to the left (see Step 4).
Dimmer does not dim properly or drops out at low end.	<ul style="list-style-type: none"> Lamps not operated at 100 hours prior to dimming. The Dimmer is not wired correctly. See Step 3 for correct wiring.
Lamps flicker when dimmed.	<ul style="list-style-type: none"> Lamps not operated at 100 hours prior to dimming.

Symptom	Possible Cause
Dimmer does not respond to <i>Spacer System</i> Infrared Hand-held Remote Control (transmitter).	<ul style="list-style-type: none"> Transmitter batteries are installed incorrectly. Transmitter batteries are dead or low. Transmitter is not aimed at the <i>Spacer System</i> Dimmer. Transmitter is not a <i>Spacer System</i> transmitter.
Dimmer does not respond to a non-Lutron infrared remote control (transmitter).	<ul style="list-style-type: none"> Transmitter is not a programmable type transmitter (i.e. learnable or stored code). Transmitter was not set up properly.

Limited Warranty

(Valid only in U.S.A, Canada, Puerto Rico, and the Caribbean.)

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid.

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Worldwide Technical and Sales Assistance

If you need assistance, call the toll-free **Lutron Technical Support Center**. Please provide exact model number when calling.

1-800-523-9466 (U.S.A., Canada, and the Caribbean)

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LUTRON®

English

P/N 030-630

spacer SYSTEM™

Personal Space Light Control

Installation Instructions for Single-Location Control

Please Leave for Occupant

Read all instructions completely before installation.

Use *Spacer System™* infrared hand-held remote controls (SPS-4IT, SPS-FSIT) for programming and recalling lighting scenes, remote dimming, and switching from the palm of your hand.

Important Notes

- Caution:** To avoid overheating and possible damage to other equipment, do not use to control receptacles, motor-operated or transformer-supplied appliances.
- This dimmer requires special wiring and a Lutron dimming ballast. See wiring requirements in Step 2 (next page) before starting installation.
- Install in accordance with all national and local electrical codes.
- Do not paint front or back of Dimmer.
- Use only to control Lutron Hi-lume®, Compact SE™, and Eco-10™ Series electronic fluorescent dimming ballasts.
- To ensure proper dimming performance and full lamp life, fluorescent lamps should be operated at full intensity for 100 hours prior to dimming.
- Operate between 32 °F and 104 °F (0 °C and 40 °C).
- Dimmer may feel warm to the touch during normal operation.
- For new installations, wire a test switch before installing the control.
- Recommended wallbox depth is 2 1/2 in (64 mm) minimum.



"The Hand™" Infrared Wireless Remote Control **will not** operate the *Spacer System* Dimmers. Use *Spacer System* infrared hand-held remote controls only (sold separately).

For Lutron FDB- or ECO- Series Fluorescent Dimming Ballasts

SPSF-6A 120 V~ Fluorescent Dimmer with IR Receiver
SPSF-6A-277 277 V~ Fluorescent Dimmer with IR Receiver

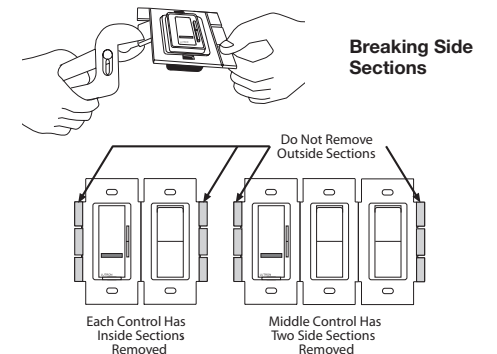
Rated at 120 V~ or 277 V~ 60 Hz
0.08 A minimum, 6 A maximum total current,
Maximum of 20 ballasts

Installation Note

Important: Dimmers used together to create scenes with a *Spacer System* wall mounted scene selector (SPS-5WC) must be installed in a single multigang wallbox with no dividers or barriers between dimmers. Individually mounted wallboxes are not acceptable. For scene programming and functions, refer to the instructions supplied with a *Spacer System* infrared hand-held remote control or wall mounted scene selector.

Multigang Installations

Lutron *Claro*® wallplates are available in 1 to 6 gang versions. Purchase *Claro* multigang wallplates separately. When combining dimmers with other controls in the same wallbox, remove all inner side sections prior to wiring. Using pliers, bend side sections up and down until they break off.



Reduction of the *Spacer System* Dimmer load capacity **is required** when removing side sections. This does not effect the maximum number of ballasts that can be controlled. See table below.

	No sides removed	1 side removed	2 sides removed
SPSF-6A	6 A	5 A	3.5 A
SPSF-6A-277	6 A	5 A	3.5 A
Maximum number of ballasts is 6, regardless of the number of side sections removed			

To determine total ballast load, add the line current found on the ballast label for all the ballasts in the circuit. This will indicate the total load for the dimmer.

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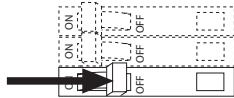
Single-Location Installation

For installations combining dimmers with other controls in a wallbox, refer to Multigang Installations on page 1 before beginning.

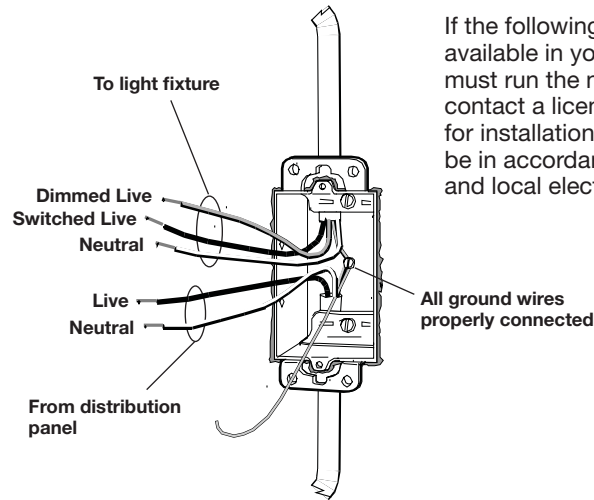
IMPORTANT NOTE: This dimmer requires special wiring and a Lutron dimming ballast for installation. See wiring requirements in Step 2 before starting installation.

✓ Check off Steps as completed.

Step 1 Turn power off at circuit breaker panel or remove fuse from fusebox.



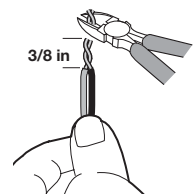
Step 2 The following wires are required in the wallbox for installation.



If the following wires are not available in your wallbox, you must run the needed wires or contact a licensed electrician for installation. All wiring must be in accordance with national and local electrical codes.

Important Wiring Information

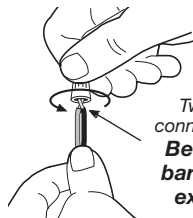
Twist wires and trim.



When making wire connections, twist and trim wires to the proper length as indicated below:

Strip length: 3/8 in (10 mm) for 14, 16, or 18 gauge

Note: Wire connectors provided are suitable for **copper wire only**. For aluminum wire, consult an electrician. Use to join the following combinations:
One 14 gauge with one 16 or 18 gauge.



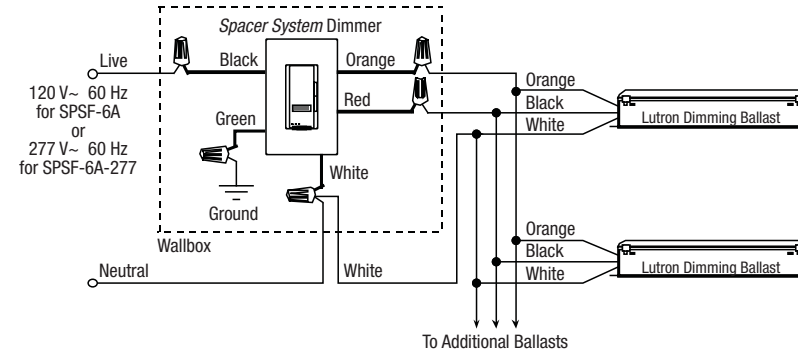
Twist wire connector tight. **Be sure no bare wire is exposed.**

Step 3 Wire the *Spacer System* Dimmer.

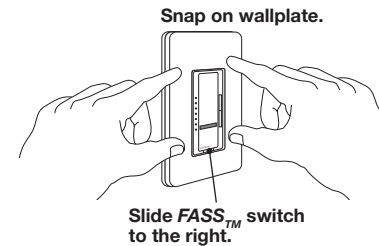
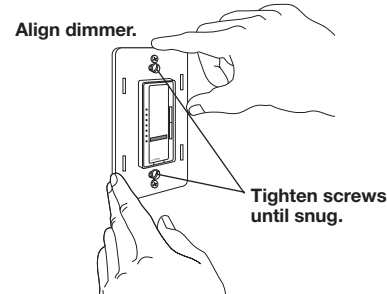
Using the wire connectors provided:

- 3a** **Connect the ground wire:**
Connect the *Spacer System* Dimmer **green** ground wire to the **green** or **bare copper** ground wire in the wallbox.
- 3b** **Connect the black wire:**
Connect the *Spacer System* Dimmer **black** wire to the live wire coming from the distribution panel.
- 3c** **Connect the red wire:**
Connect the *Spacer System* Dimmer **red** wire to the **black** wire (switched live) on the dimming ballast.
- 3d** **Connect the orange wire:**
Connect the *Spacer System* Dimmer **orange** wire (dimmed live) to the **orange** wire on the dimming ballast.
- 3e** **Connect the white wire:**
Connect the *Spacer System* Dimmer **white** wire to neutral.

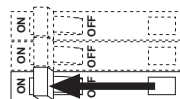
Wiring Diagram



Step 4 Mount and align Dimmer. Install *Claro* wallplate (sold separately).



Step 5 Turn power ON.



To ensure proper dimming performance and full lamp life, fluorescent lamps should be operated at full intensity for 100 hours prior to dimming.

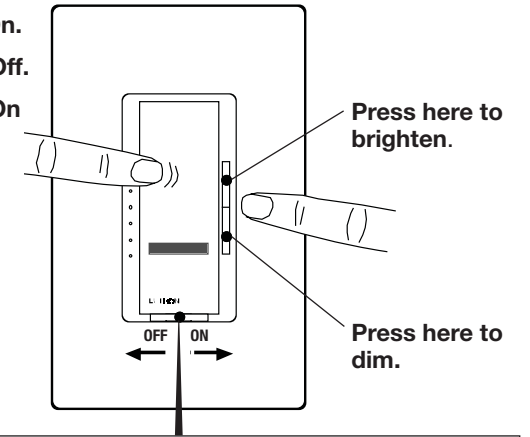
Operation of *Spacer System* Dimmer

Basic Operation

Tap once to turn On.

Tap again to turn Off.

Tap twice to turn On to full bright.



IMPORTANT NOTICE:

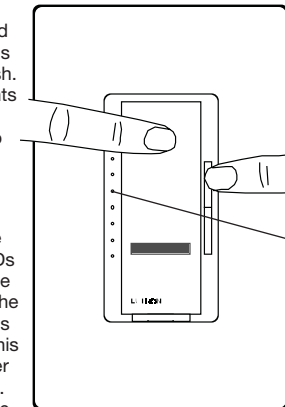
FASS - Front Accessible Service Switch - to replace lamp, power may be conveniently removed by sliding **FASS** switch to the left. **For any procedure other than routine lamp replacement, power must be disconnected at the main electrical panel.**

Power Failure Memory - Light(s) return to level prior to power failure.

Advanced Features

Fade to OFF - Press and hold to activate delayed fade to OFF. As tap switch is held, LEDs will begin to flash. Each flashing LED represents 10 seconds of delay before dimmer fades to OFF (up to 60 seconds).

Locked-in Preset - Tap 4 times quickly to set the current light level as the "Locked-in" preset (the LEDs will blink twice indicating the preset was locked). When the dimmer is turned ON via this button it will always go to this "Locked-in" light level rather than the previous light level. To unlock the preset, tap the switch 4 times quickly (the LEDs will blink three times indicating the preset was unlocked).



ON Low - Press once to turn your lights ON to lowest level when dimmer is OFF.

LEDs - Indicate light level or glow softly as a night light when dimmer is OFF.