

Halogen/Incandescent/Magnetic Low-Voltage Dimmer with Radio Frequency Receiver

MRF2-6ND-120 120 V~ 60 Hz 600 W Halogen/Incandescent 600 VA / 450 W Magnetic Low-voltage (Single-Pole or Multi-Location)

Companion Dimmer

MA-R 120 V~ 60 Hz 8.3 A

MSC-AD 120 V~ 60 Hz 8.3 A

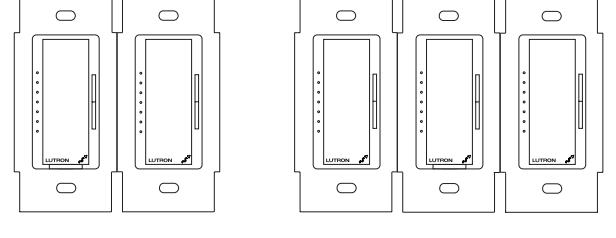
Important Notes. Please read before installing.

- CAUTION!** To reduce the risk of overheating and possible damage to other equipment, DO NOT use to control receptacles, fluorescent lighting fixtures, compact fluorescent (Energy Saver) lamps, electronic low-voltage fixtures, motor operated or transformer supplied appliances.
- CAUTION!** When installing Halogen/Incandescent/Magnetic Low-voltage Dimmers—To reduce the risk of overheating and possible damage to other equipment, DO NOT use to control receptacles, motor-operated appliances, fluorescent lighting fixtures, compact fluorescent (Energy Saver) lamps, electronic low-voltage fixtures or transformer-supplied appliances.
- CAUTION!** Operating a dimmed magnetic low-voltage circuit with all lamps inoperative or removed may result in current flow in excess of normal levels. To avoid possible transformer overheating or failure, Lutron strongly recommends the following: Do not operate without operative lamps in place. Replace burned-out lamps as soon as possible. To prevent premature failure due to overcurrent, use transformers with thermal protection or fused primary transformer windings.
- Install in accordance with all national and local electrical codes.
- When no "grounding means" exist within the wallbox, then the NEC® 2008, Article 404.9 allows a Dimmer without a grounding connection to be installed as a replacement, as long as a plastic, noncombustible wallplate is used. For this type of installation, twist a wire connector onto the green ground wire or remove the green ground wire on the Dimmer and use an appropriate wallplate such as Claro® or Satin Colors® series wallplates by Lutron®.
- Do not paint the Dimmers or the Companion Dimmers.
- The Dimmers are not compatible with standard 3-way or 4-way switches. Use only with Lutron Companion Dimmers.
- In any 3-way/4-way circuit use only one Dimmer with up to 9 Companion Dimmers.
- Do not use where the total load is greater than the rating indicated in the Dimming Chart below.
- Do not use where total load is less than 10 W/VA.
- Operate between 32 °F (0 °C) and 104 °F (40 °C).
- For indoor use only.
- It is normal for the Dimmers to feel warm to the touch during operation.
- Recommended minimum wallbox depth is 2 1/2 in (64 mm).
- Maximum wire length between the Dimmers and the furthest Companion Dimmer is 250 ft (76 m).
- Clean with a **soft damp cloth only**. Do not use any chemical cleaners.
- DO NOT** mix MRF and MRF2 lighting controls products within the same system. Products are **NOT compatible**, contact Lutron Technical Support Center.
- Controls must be mounted vertically. See stamp on control for correct positioning.
- DO NOT** wire while circuit breaker is open. Permanent damage to the Dimmer may result.
- When using Power Boosters (PHPM) please refer to the 369-143 document found on the Lutron website for wiring diagrams.
- Up to 10 Maestro Wireless controls can be configured to work together.

Multigang Installations

When installing more than one control in the same wallbox, the maximum load capacity is reduced. No derating is required for Companion Dimmers.

Refer to the Derating Chart below.

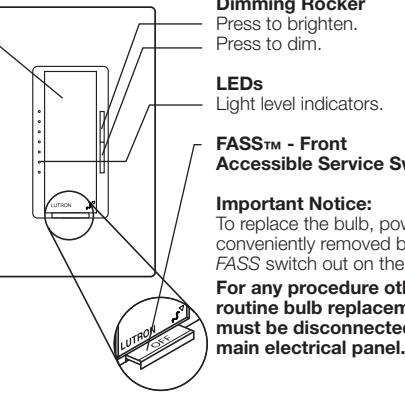
**Derating Chart**

Model	Type of Load	Single Gang	End of Gang	Middle of Gang
MRF2-6ND-120	Halogen/Incandescent	600 W	500 W	400 W
	Magnetic Low-Voltage*	600 VA/450 W	500 VA/400 W	400 VA/300 W

*The maximum lamp wattage is determined by the efficiency of the transformer, with 70%–85% as typical. For actual transformer efficiency, contact either the fixture or transformer manufacturer. The total VA rating of the transformer(s) shall not exceed the VA rating of the switch.

Dimmer Operation**Tap Button Options.**

- Tap once when the Dimmer is off:** Lights brighten smoothly to preset intensity.
- Tap once when the Dimmer is on:** Lights dim smoothly to off.
- Tap twice quickly:** Lights brighten rapidly to full intensity.
- Press and hold when the Dimmer is on:** Each time the Dimmer is turned off, delayed fade to OFF can be activated. As the Tap Button is held, the current LED will begin to flash. This flashing LED represents 20 seconds of delay before the lights fade to OFF.

**Multiple Dimmer Applications**

If multiple Maestro Wireless Dimmers are set up to the same Wireless Controller, they will perform as follows:

- Presione una vez cuando el atenuador se encuentra apagado:** Las luces aumentarán su intensidad suavemente hasta alcanzar el nivel prefijado.
- Presione una vez cuando el atenuador está encendido:** Las luces se atenuarán hasta apagarse.
- Presione dos veces rápidamente:** Las luces aumentarán rápidamente su intensidad hasta alcanzar la máxima.
- Oprima y sostenga el atenuador encendido:** Cada vez que se apague el atenuador se puede activar la función de demora antes del desvanecimiento gradual hasta APAGAR. Cuando tenga presionado el botón a presión, el LED del comienzo comenzará a parpadear. Este parpadeo representa 20 segundos de demora antes del desvanecimiento hasta APAGAR.

Important Notice: To replace the bulb, power may be conveniently removed by pulling the FASS switch out on the Dimmer. For any procedure other than routine bulb replacement, power must be disconnected at the main electrical panel.

Set-Up

Important: Set up Wireless Controller or Sensor to a Dimmer before use.

- Press and hold the Dimmer's Tap Button (Figure 1) for approximately 6 seconds. Once the LEDs start to blink slowly, release the Tap Button and go to step 2.
- Press and hold the Off Button on the Wireless Controller (Figure 2) or Sensor (Figure 3) for approximately 6 seconds.
- Once the Dimmer learns the Wireless Controller or Sensor, its LEDs and load will flash 3 times and the Dimmer will exit Set-Up mode.
- Repeat steps 1–3 to set up multiple Wireless Controllers or Sensors to a single Dimmer. Repeat steps 1–3 to set up a single Wireless Controller or Sensor to multiple Dimmers.

Technical AssistanceFor questions concerning the installation or operation of this product, call the **Lutron Technical Support Center**.

Please provide exact model number when calling.

U.S.A. and Canada (24 hrs / 7 days)

1.800.523.9466 Fax +1.610.282.6311

Mexico

1.888.235.2910

Other countries 8am – 8pm ET

+1.610.282.3800

www.lutron.com

Troubleshooting**Symptoms****Possible Causes**

- FASS switch on the Dimmer (or Companion Dimmer) is in the Off position.
- Light bulb(s) burned out.
- Breaker is OFF or tripped.
- Load not properly installed.
- Wiring error. Call Lutron Technical Support Center.

- The Dimmer failed to learn Wireless Controller or Sensor; see Set-Up.
- The Dimmer has already received and responded to a command, or is already at the Light Setting the Wireless Controller or Sensor is requesting.
- The Wireless Controller or Sensor is outside the operating range.
- The Wireless Controller or Sensor batteries are low.
- The Wireless Controller or Sensor batteries are installed incorrectly.

- The maximum number of Wireless Controllers or Sensors have been set up to the Dimmer (you cannot add any more Wireless Controllers or Sensors). To remove a previously set-up Wireless Controller or Sensor tap the Wireless Controller or Sensor's On button three times, on the third tap hold for 3 seconds and then tap 3 more times. This will remove the Wireless Controller from all Dimmers or Switches it was previously setup with.

- When in set-up mode the LEDs flash when trying to setup with the Wireless Controller or Sensor.

- This warranty is in lieu of all other express warranties, and the implied warranties of merchantability and fitness for a particular purpose. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF NON-INFRINGEMENT. THIS WARRANTY DOES NOT COVER THE COST OF INSTALLATION, REMOVAL, OR REINSTALLATION, OR DAMAGE RESULTING FROM MISUSE, ABUSE, OR DAMAGE FROM IMPROPER WIRING OR INSTALLATION. THIS WARRANTY DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES. LUTRON'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, OR USE OF THE UNIT SHALL NEVER EXCEED THE PURCHASE PRICE OF THE UNIT.

- This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty may last, so some of above limitations may not apply to you.

- This product is covered by one or more of the following U.S. patents: 5,248,919; 5,399,940; 5,637,930; 5,680,377; 5,826,285; 7,365,282; 7,408,525; and 7,523,945. To purchase a patent license, contact Lutron Electronics Co., Inc., 7200 Suter Rd., Coopersburg, PA 18036-1299, Attention: Legal Department.

- U.S. and foreign patents pending. Lutron, Claro, Maestro, and Sunburst Logos and Satin Colors are registered trademarks and FASS is a trademark of Lutron Electronics Co., Inc. NEC is a registered trademark of National Fire Protection Association, Quincy, Massachusetts. © 2009 Lutron Electronics Co., Inc.

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Atenuador para lámparas halógenas / incandescentes / de bajo voltaje magnético, con receptor de radiofrecuencia

MRF2-6ND-120 120 V~ 60 Hz 600 W Halógeno/Incandescente 600 VA / 450 W de bajo voltaje magnético BVM (Unipolar o de posiciones múltiples)

Atenuador accesorio

MA-R 120 V~ 60 Hz 8.3 A

MSC-AD 120 V~ 60 Hz 8.3 A

Notas importantes. Lea antes de instalar.

- PRECAUCIÓN!** Para reducir el riesgo de sobrecalentamiento y posibles daños a otros equipos, NO utilice los atenuadores para controlar tomas de corriente, lámparas fluorescentes, lámparas fluorescentes compactas (Energy Saver), lámparas de bajo voltaje electrónico, o electrodomésticos con motor o alimentados por transformador.
- PRECAUCIÓN!** Cuando instale atenuadores para lámparas incandescentes/halógenas/de bajo voltaje magnético (BVM)—Para reducir el riesgo de sobrecalentamiento y posibles daños a otros equipos, NO los use para controlar tomas de corriente, electrodomésticos con motor, lámparas fluorescentes, lámparas fluorescentes compactas (Energy Saver), lámparas de bajo voltaje electrónico o electrodomésticos alimentados por transformador.
- PRECAUCIÓN!** Operación de un circuito de bajo voltaje atenuado con todas las lámparas inoperativas o removidas puede resultar en una corriente excesiva respecto de los niveles normales. Para evitar un posible sobrecalentamiento o fallo del transformador, Lutron recomienda no operar sin lámparas operativas. Reemplace las lámparas quemadas lo antes posible. Pare evitar fallas prematuras debido a sobrecorrientes, use transformadores con protección térmica o con primario protegido con fusible.
- La instalación se debe realizar de acuerdo con todas las reglamentaciones de los códigos eléctricos nacionales y locales.
- Como la caja de empotrar no tiene "medio de conexión a tierra" el artículo 404.9 de NEC 2008 permite reemplazar el atenuador con uno sin conexión a tierra, siempre y cuando se utilice una placa plástica e incombustible. Para efectuar este tipo de instalación, enrosque un capuchón al cable de tierra verde, o bien elimine el cable verde de tierra del atenuador y use una placa adecuada, como las de la serie Claro™ o Satin Colors™ de Lutron.
- No pinte los atenuadores ni los atenuadores accesorios.
- Los atenuadores no son compatibles con interruptores estándar de 3 ó 4 vías. Use solamente con interruptores accesorios de Lutron.
- En los circuitos de 3 ó 4 vías utilice solamente un atenuador con un máximo de 9 atenuadores accesorios.
- No usar si la carga total será mayor que la nominal indicada en la Tabla de Reducción de Potencia que se encuentra en esta hoja.
- Mantenga los equipos a una temperatura entre 0 °C (32 °F) y 40 °C (104 °F).
- Para uso en interiores solamente.
13. Es normal que los atenuadores se sientan tibios al tacto durante su funcionamiento.
14. La profundidad mínima recomendada para la caja de empotrar es 64 mm (2 1/2 pulgadas).
15. El máximo largo de cable entre los atenuadores y el atenuador accesorio más lejano es de 76 m (250 pies).
16. Limpie con un paño suave humidificado solamente. No use ningún producto químico.
17. NO combine productos de iluminación MRF y MRF2 dentro del mismo sistema. Estos productos NO son compatibles, contacte al Centro de Soporte Técnico de Lutron.
18. Los controles deben montarse verticalmente. Vea el grabado en el control para la posición correcta.
19. NO realice el cableado con el disyuntor conectado. El atenuador puede sufrir daños permanentes.
20. En caso de usar amplificadores de potencia (PHPM)-sírvase consultar el documento 369-143 en el sitio web de Lutron para los diagramas de cableado.
21. Se pueden configurar hasta 10 controles Maestro Wireless para funcionar en conjunto.

P/N 0301079

Instalaciones con varios dispositivos acoplados

Cuando instale más de un control en la misma caja de empotrar, se reduce la capacidad máxima de carga. No se requiere reducción de potencia para los atenuadores accesorios. Consulte la siguiente Tabla de Reducción de Potencia.

Modelo	Tipo de Carga	Módulo único	Fin de la agrupación	En medio de la agrupación
MRF2-6ND-120	Halógena/Incandescente	600 W	500 W	400 W
	Bajo voltaje magnético BVM*	600 VA / 450 W	500 VA / 400 W	400 VA / 300 W

*El total de vatios de las lámparas está determinado por la eficiencia del transformador, que típicamente es de 70%–85%. Para obtener la eficiencia real, contacte al fabricante del artefacto o del transformador. La capacidad máxima del transformador o transformadores no debe exceder la del interruptor (en VA).

“La potencia máxima de las lámparas es determinada por el efectividad del transformador, que típicamente es de 70%–85%. Para conocer la efectividad real, contacte al fabricante del artefacto o del transformador. La capacidad máxima del transformador o transformadores no debe exceder la del interruptor (en VA)."

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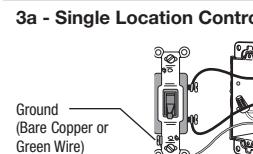
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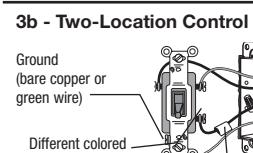
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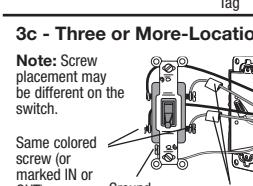
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Installation**3 Identifying the Circuit Type and Tagging the Wire on the COMMON Terminal of the Switches**

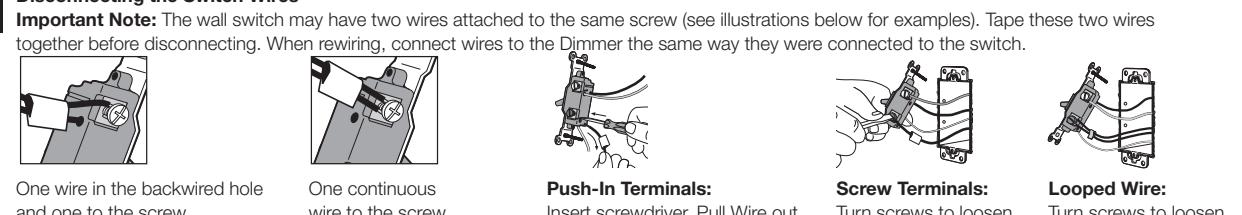
One switch controlling a light fixture:
This switch will be a single-pole. The switch will have insulated wires connected to two screws of the same color plus a green ground screw.



Two switches controlling a light fixture:
Both switches will be 3-way. Each switch will have insulated wires connected to three screws plus a green ground screw. One of these wires is connected to a screw of a different color (not green) or labeled COMMON. Tag this wire on both switches to identify when rewiring.

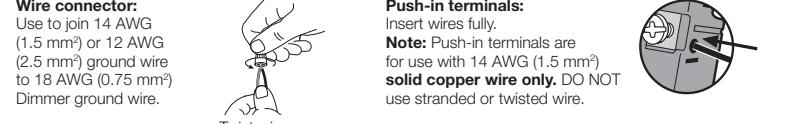


Three or more switches controlling a light fixture:
Two switches will be 3-way and any others will be 4-way. Tag the two 3-way switches as in the Two-Location diagram above. The 4-way switch will have insulated wires connected to four screws plus a green ground screw. Tag the two same-color insulated wires that are connected to opposite colored screws. Follow this procedure for each 4-way switch.

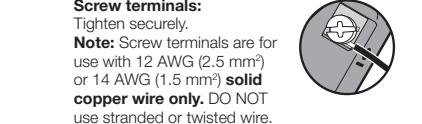
4 Disconnecting the Switch Wires**5 Wiring**

When making wire connections, follow the recommended strip lengths and combinations for the supplied wire connector. **Note:** All wire connectors provided are suitable for **copper wire only**. For aluminum wire, consult an electrician.

Trim or strip wallbox wires to the length indicated by the strip gauge on the back of the Dimmer.



Push-in terminals:
Insert fully.
Note: Push-in terminals are for use with 14 AWG (1.5 mm²) or 12 AWG (2.5 mm²) solid copper wire only. DO NOT use stranded or twisted wire.

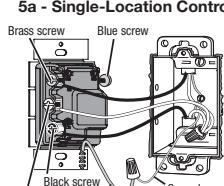


Screw terminals:
Tighten securely.
Note: Screw terminals are for use with 14 AWG (1.5 mm²) or 12 AWG (2.5 mm²) solid copper wire only. DO NOT use stranded or twisted wire.

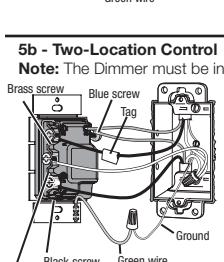
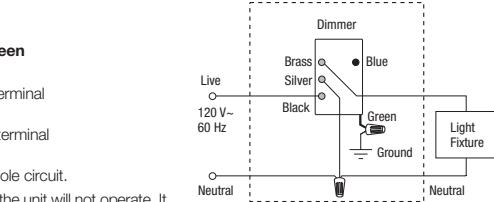
For installations involving more than one control in a wallbox, refer to Multigang Installations before beginning.

Use the screw or push-in terminals when making connections on the Dimmer or Companion Dimmer.

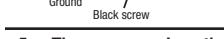
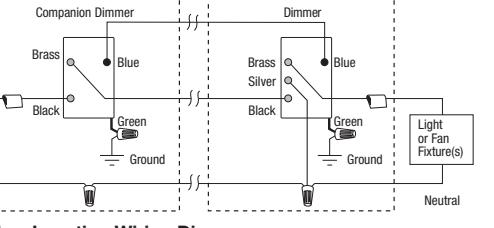
Wire all controls before mounting.



Wiring the Dimmer:
• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. See Important Note 5 on other side.
• Connect either of the wires removed from the switch to the **black** screw terminal on the Dimmer.
• Connect the remaining wire removed from the switch to the **brass** screw terminal on the Dimmer.
• Tighten the **blue** screw terminal on the Dimmer. It is not used in a single-pole circuit.
Note: If the wires connected to the **Black** and **Brass** screws are reversed, the unit will not operate. It may be necessary to swap the connections to ensure that the **Brass** screw is connected to the load.



Wiring the Dimmer on the load side:
• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. See Important Note 5 on other side.
• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.
• Connect one of the remaining wires removed from the switch to the **black** screw terminal on the Dimmer.
• Connect the neutral wire in the wallbox to the **silver** screw terminal on the Dimmer.
• Connect the remaining wire removed from the switch (not wire color) to the **blue** screw terminal on the Dimmer.



One location will be replaced with a Dimmer and the others with Companion Dimmers. Only one Dimmer can be used with up to nine Companion Dimmers.

Replace the single switch(es):
• Most 4-way switches must be replaced with Companion Dimmers.

• Connect the green ground wire on the Companion Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect both of the wires tagged in step 3c to the **blue** screw terminal on the Dimmer or Companion Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **brass** screw terminal on the Companion Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer that replaced a 4-way switch (wire color noted above) to the **blue** screw terminal on the Dimmer.

• Connect the neutral wire in the wallbox to the **silver** screw terminal on the Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect one of the remaining wires removed from the switch to the **black** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **brass** screw terminal on the Companion Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Companion Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Companion Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Companion Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Companion Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Companion Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Companion Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Companion Dimmer.

• Connect the green ground wire on the Dimmer to the **bare copper or green** ground wire in the wallbox. (See Important Note 5 on other side.)

• Connect the wire tagged in step 3b to the **black** screw terminal on the Dimmer.

• Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.

• Connect the remaining wire removed from the switch to the **black** screw terminal on the Companion Dimmer.

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