

**ENGLISH**

**9540-N - Smart Dimmer - For 300W Dimmable LED/CFL, 600W INC/ MLV/ ELV/HAL/FLR; 9542 - Smart Dimmer Accessory  
9534 Smart Dimmer 600W; 9536 - Smart Dimmer 1000W**

**OPERATING INSTRUCTIONS**

- Press ON/OFF button once to turn lights ON at the previously selected level.
- Press again to turn lights OFF.
- When lights are OFF, press and hold for 2 seconds for full brightness.
- To activate delay OFF feature, when lights are ON, press and hold for 2 seconds until the green LED flashes then release. After 10 seconds, the lights will begin fading to OFF. This allows you time to exit the room before the lights turn OFF.
- Amber LED indicates that the dimmer is turned ON.

**DIMMING LEVEL ADJUSTMENT (9540-N ONLY)**

For maximum compatibility with different loads types, these dimmers allow the user to set the minimum level. Also to save ON power consumption they allow the user to set the maximum level.

1. After installing the dimmer and restoring power:
  2. Press ON/OFF button to turn ON the light.
  3. Press and hold ON/OFF button for five seconds until the green dimmer LEDs begin to cycle rapidly (NOTICE- after two seconds green dimmer LEDs will start to flash indicating activation of the delay OFF feature. Continue holding the ON/OFF button for three additional seconds until the green dimmer LEDs begin to cycle rapidly.)
  4. Release the button. Dimmer will set the light to the previously saved minimum level (that may cause the light to flicker or turn OFF). During initial setup, the light will set to the factory minimum default.
  5. Press either the dim or bright buttons to change the minimum level until the light output is acceptable.
  6. Press ON/OFF button. Green dimmer LEDs will start to cycle rapidly again and the dimmer light will go to previously saved maximum level.
  7. Press either the dim or bright buttons to change the maximum level until the light output is acceptable.
  8. Press ON/OFF button, LED will flash indicating completion of programming
- **NOTE** – To restore the default min/max, repeat the steps above and adjust light levels to full min/max settings by pressing dim/bright buttons until the light output no longer changes.
  - **NOTE** – User could ignore setting max or min by pressing ON/OFF button without changing the dimmer level.

**RAPID START FEATURE (9540-N ONLY)**

This feature ensures that LED/CFL lights turn ON when the dimmer preset level is low. With this setting enabled, the lights may momentarily be brighter than the preset level (less than one second) and then dim down to the preset level. Depending on the type of light used, this feature may not be needed. To enable/disable the feature, turn lights ON. Press and hold the ON/OFF button for 10 seconds until the green dimmer LEDs flash for the third time, then release the button.

**INSTALLATION INSTRUCTIONS**

**WARNING:**

- **Turn OFF circuit breaker or remove fuse(s) and verify that power is OFF before wiring.**
- Never wire any electrical device with power turned ON. Wiring the dimmer with power ON may cause permanent damage to the dimmer and void the warranty.
- If you are unsure about any part of these instructions, or if the wiring does not match the descriptions given, you should call a qualified electrician.

**CAUTION:**

- Do not exceed maximum rating of the dimmer as indicated in Table 1.
- Must be installed and used in accordance with electrical codes.
- If a bare copper or green ground connection is not available in the wallbox, contact a licensed electrician for installation. Do not install without proper ground connections.
- To avoid overheating and possible damage to other equipment, do not use to control receptacles, motor-driven appliances, transformer supplied appliances, etc.
- Use only #14 or #12 copper wire rated for at least 75° C with these devices. Do not use with aluminum wire.
- Wire connectors provided may be used for COPPER WIRE ONLY for the following wire combinations:  
2 #14; 2 #12; 2 #12 with 1 #18; 2 #14 with 1 #18; 1 #12 with 1 #16 with 1 #18; 1 #14 with 1 #16 with 1 #18; 1 #12 with 2 #16; 1 #14 with 2 #16; 1 #12 with 1 #16; 1 #14 with 1 #16; 1 #12 with 1 #18; 1 #14 with 1 #18.
- Be sure to read and follow all instructions associated with the specific lamp that you are using with the dimmer.
- The Smart Dimmer will not work or will become damaged if wired incorrectly, and the warranty will be voided. Refer to **wiring instructions in this document.**

**Tools needed for Installation:**

- Screwdriver (Slotted/Phillips) • Pliers • Cutters

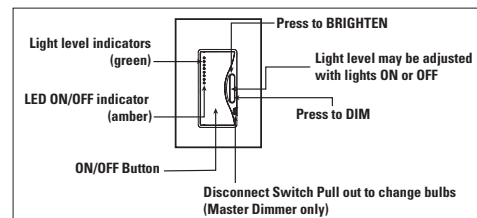
**SINGLE OR MULTI-LOCATION APPLICATION:**

1. Determine which type of installation it is.
  2. Single Location – Controlled from one location.
  3. Multi-Location – Controlled from more than one location. One location is the Smart Dimmer and the other location(s) are the Accessory Dimmers.
  4. Turn OFF the power and remove wallplate.
- **NOTE** – The Smart Dimmer is not compatible with standard 3-way switches.
  - **NOTE** – For 9540-N, a neutral wire must be available in the wallbox.

| Aspire Style | Description   |
|--------------|---|
| 9540-N       | Smart dimmer, single-pole/multi-location-300W dimmable LED/CFL-600W INC/dimmable ELV/Halogen/dimmable FLR, 600VA MLV-120V/AC, 60Hz requires neutral |
| 9534         | Smart dimmer, single-pole/multi-location-600W incandescent, 450VA magnetic low voltage lighting features  |
| 9536         | Smart dimmer, single-pole/multi-location-1000W incandescent, 750VA magnetic low voltage lighting features   |
| 9542         | Accessory, must be used with smart dimmer   |

| Features     |                                       |  |  |   |  |
|--------------|---------------------------------------|--|--|---|--|
| Aspire Style | Adjustable low level dimming setpoint | Adjustable high level dimming setpoint | Rapid start allows the light to come on instantly in the case of LED/CFL loads and the ability to disable that feature | Delay OFF allows the light to turn OFF 10 seconds later | Max # of accessory dimmers (wire length) |
| 9540-N       | YES                                   | YES                                    | YES  | YES   | 4 (250 FT)                               |
| 9534         | NO                                    | NO                                     | NO   | YES   | 5 (300 FT)                               |
| 9536         | NO                                    | NO                                     | NO   | YES   | 5 (300 FT)                               |

**9540-N, 9534, 9636 and 9542**



|        | Load Type                  | One GANG | Two GANG | Three GANG |
|--------|----------------------------|----------|----------|------------|
| 9540-N | INC/ELV/FLR/HAL            | 600W     | 550W     | 500W       |
|        | Magnetic Low Voltage (MLV) | 600VA    | 550VA    | 500VA      |
|        | CFL/LED                    | 300W     | 300W     | 300W       |
| 9534   | Incandescent               | 600W     | 600W     | 600W       |
|        | Magnetic Low Voltage (MLV) | 450VA    | 450VA    | 450VA      |
| 9536   | Incandescent               | 1000W    | 800W     | 800W       |
|        | Magnetic Low Voltage (MLV) | 750VA    | 600VA    | 600VA      |

| With no accessory dimmers | With 1 accessory dimmers | With 2 accessory dimmers | With 3 accessory dimmers | With 4 accessory dimmers | With 5 accessory dimmers |
|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 60W                       | 100W                     | 100W                     | 150W                     | 150W                     | 200W                     |

**SINGLE LOCATION INSTALLATION**

Disconnect the existing switch, remove it and connect as per FIGURE 1a or 1b using the wire nuts provided:

1. Install the Dimmer loosely using the mounting screws provided.
2. Apply power temporarily and verify that one of the green dimmer LED's is on. Push the ON/OFF button to verify the lights turn ON and OFF. If the lights do not work, then turn OFF the power and swap the dimmer red and black wires.
3. Apply power again and verify that the dimmer works by pushing the ON/OFF button to verify the lights turn ON and OFF.
4. Turn power OFF. Refer to **COMPLETING THE INSTALLATION.**

**MULTIPLE LOCATIONS INSTALLATION - HOW TO IDENTIFY COMMON WIRES**

For Two and Three location installations you must first identify the Common Wires.

**IDENTIFYING COMMON WIRES IN TWO LOCATIONS:**

On a 3-way switch the common wire is identified by a marking on the switch indicating COM, or the screw color is Black, and is different than the other two screws. Tag this wire before disconnecting the wires from the switch

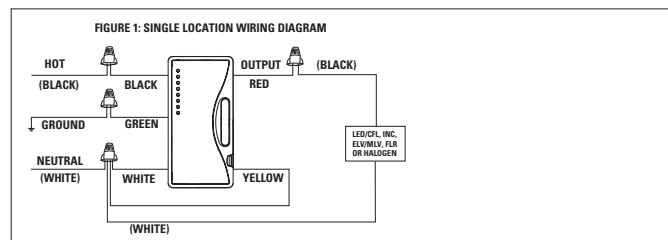
**IDENTIFYING COMMON WIRES IN THREE LOCATIONS:**

- Two of the existing switches will be 3-Way. The 3-way switches will be located at each end of the circuit with a 4-way switch in between. Tag the two 3-way switches as in the Two Location section.
- The 4-way switch has four insulated wires connected to four terminal screws. Two wires should be Red and two should be Black.

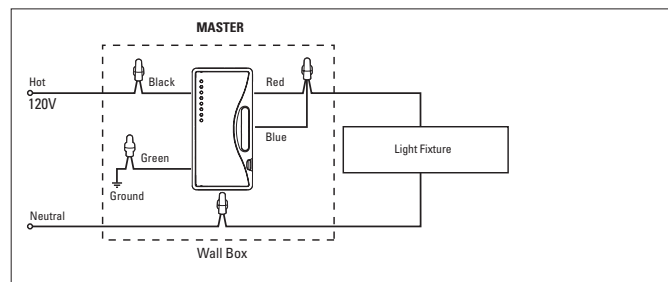
**TWO LOCATION INSTALLATION:**

1. For the existing wiring identify the common wires for both 3-way switches, and tag these wires by following the instructions "How to Identify Common Wires". Refer to FIGURES 2a or 2b.
2. The Smart Dimmer must be installed in the 3-way location that is connected to Power.
3. If you are unsure how to determine this, consult a qualified electrician.
4. Connect the Smart Dimmer as indicated in the diagram using the wire nuts provided.
5. Connect the Accessory Dimmer as indicated in the diagram using the wire nuts provided.
6. Go to **COMPLETING THE INSTALLATION.**

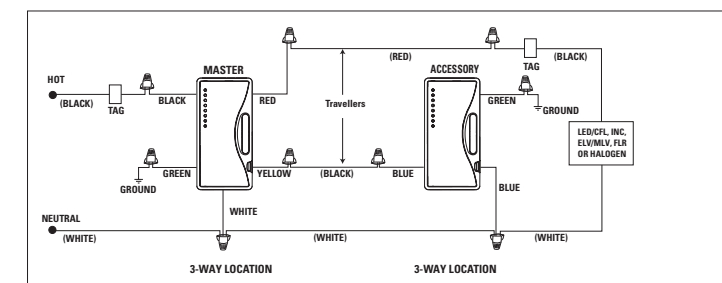
**Figure 1a. Single location wiring diagram (9540-N)**



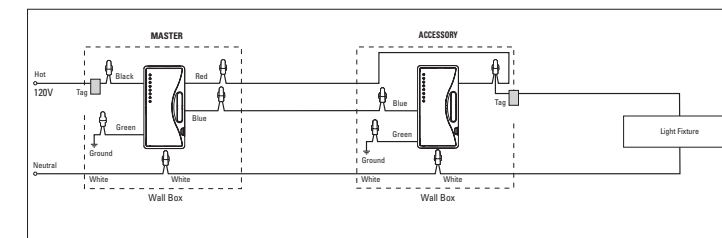
**Figure 1b. Single location wiring diagram (9534, 9636)**



**Figure 2a. Multi location wiring diagram 9540-N with accessory (9542)**



**Figure 2b. Multi location wiring diagram 9534, 9536 with accessory (9542)**





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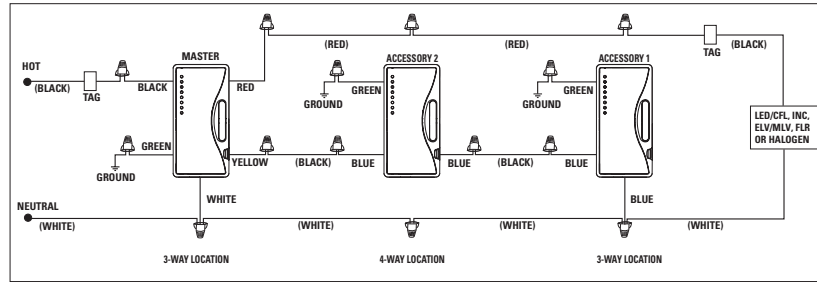
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THREE LOCATION INSTALLATION:

- 1. For the existing wiring identify the common wires for both 3-way switches, and tag these wires by following the instructions provided above. Refer to FIGURES 3a or 3b.
2. The Smart Dimmer must be installed in the 3-Way location that is connected to Power.
3. If you are unsure how to determine this, consult a qualified electrician.
4. Connect the Smart Dimmer as indicated in the diagram using the wire nuts provided.
5. Connect Accessory Dimmer 1 in the location of the other 3-way Switch as indicated in the diagram using the wire nuts provided:
6. Connect Accessory Dimmer 2 in the location of the 4-way Switch as indicated in the diagram using the wire nuts provided:
7. Go to COMPLETING THE INSTALLATION.

Figure 3a. Three location wiring diagram 9540-N with accessories (9542)



COMPLETING THE INSTALLATION

Gently push the dimmers into their wallbox and secure mounting screws.

- 1. Install the wallplate(s).
2. Make sure that the disconnect switch on the Smart Dimmer is fully pushed in. Turn ON power.
3. Press ON/OFF button once, LED will flash indicating completion of programming.

Figure 3a. Three location wiring diagram 9540-N with accessories (9542)

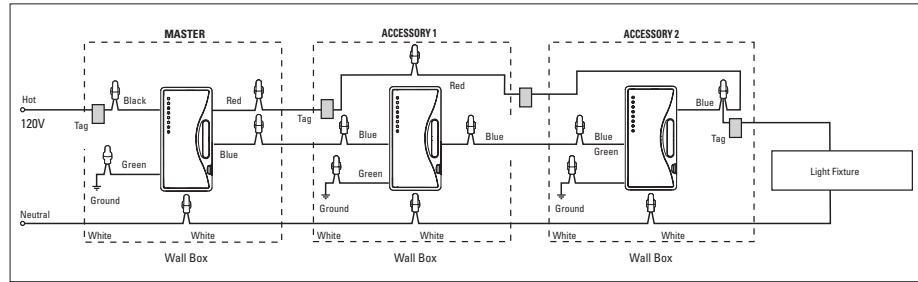


Table with 3 columns: Symptoms, Possible Cause, and Solution. Rows include issues like 'Light does not turn ON', 'Erratic operation or flickering LEDs', and 'Dimmer is warm to touch'.

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1: This device may not cause harmful interference, and
2: This device must accept any interference received, including interference that may cause undesired operation.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION:
Any changes or modifications not expressly approved by Eaton Wiring Devices could void the user's authority to operate the equipment
This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

EATON WIRING DEVICES LIMITED 2 YEAR WARRANTY
Eaton Wiring Devices (EWD) warrants its Smart Dimmer System to be free of defects in materials and workmanship in normal use and service for a period of two years from date of original purchase. THIS TWO (2) YEAR LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS, OR LIABILITIES, EXPRESSED OR IMPLIED (INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE THAT IS IN DURATION IN EXCESS OF TWO YEARS FROM THE DATE OF ORIGINAL CONSUMER PURCHASE), NO AGENT, REPRESENTATIVE, OR EMPLOYEE OF EWD HAS AUTHORITY TO INCREASE OR ALTER THE OBLIGATIONS OF EWD UNDER THIS WARRANTY.
To obtain warranty service for any properly installed EWD Smart Dimmer System that proves defective in normal use send the defective Smart Dimmer System prepaid and insured to Quality Control Dept., Eaton Wiring Devices, 203 Cooper Circle, Peachtree City, GA 30269; in Canada: Eaton Wiring Devices, 5925 McLaughlin Road, Mississauga, Ontario L5R 1B8. EWD will repair or replace the defective unit, at its option. EWD will not be responsible under this warranty if examination shows that the defective condition of the unit was caused by misuse, abuse, improper installation, alteration, improper maintenance or repair of damage in shipment to EWD. EWD SHALL HAVE NO RESPONSIBILITY FOR INSTALLATION OF THE SMART DIMMER SYSTEM, OR FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR ANY SPECIAL, INCIDENTAL, CONTINGENT, OR CONSEQUENTIAL DAMAGES OF ANY KIND, RESULTING FROM DEFECTS IN THE SMART DIMMER SYSTEM OR FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT.
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