ENGLISH

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

9534 Smart Dimmer 600V; 9536  - Smart Dimmer 1000W

OPERATING INSTRUCTIONS

- Press the ON/OFF button once to turn lights OFF at the previously selected level.
- Press again in 3 seconds to turn lights ON to the previously selected level.
- Press and hold ON/OFF button for 5 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.
- Release the button. Dimmer will slide to the previously saved minimum level (that may cause the lights to flicker or turn OFF).
- During this setup the light will not reach the factory minimum default.
- Press either dim or bright buttons to change the minimum level until the light output is acceptable.
- Press the ON/OFF button to return to the previously saved minimum level (that may cause the light to flicker or turn OFF).
- amber LED indicates that the dimmer is turned ON.

DIMMING LEVEL ADJUSTMENT (9540-N ONLY)

For maximum compatibility with different load types, the dimmer allows the user to set the minimum level. Auto-sets the color of the power indicator to match the level of the minimum dimmer setting.
- After installing the dimmer and powering it ON, the dimmer will show a minimum dimmer setting.
- To activate delay OFF feature, when lights are ON, press and hold for 3 seconds until the green LED flashes then release. After 10 seconds, the lights will begin fading to OFF. This allows users to view the room before the lights turn OFF.
- amber LED indicates that the dimmer is turned ON.

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.

1. Install the dimmer loosely using the mounting screws provided.
2. Connect the Smart Dimmer as indicated in the diagram using the wire nuts provided.
3. Go to COMPLETING THE INSTALLATION.

WARNING:

- Turn OFF circuit breaker or remove fuse/and verify that power is OFF before wiring.
- Do not mix wire connectors provided for COPPER WIRE ONLY.

INSTALLATION INSTRUCTIONS

- If you are unsure how to determine this, consult a qualified electrician.
- If the wiring does not match the descriptions given, you should call a qualified electrician.
- If the Smart Dimmer is damaged due to the improper wiring, the warranty will be voided.
- The 4-way switch has four insulated wires connected to four terminal screws. Two wires should be Red and two should be Black.
- With lights ON or OFF.
- A pair of copper or green ground connections 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.
- The Smart Dimmer will set the previously saved minimum level.
- The Smart Dimmer will work as designed or will be damaged if not wired correctly, and the warranty will be voided. Refer to wiring instructions in this document.

FEATURES

- Adjustable high level dimming output
- Adjustable low level dimming output
- 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)

Table 1 - Maximum Load

<table>
<thead>
<tr>
<th>Load Type</th>
<th>One GANG</th>
<th>Two GANG</th>
<th>Three GANG</th>
</tr>
</thead>
<tbody>
<tr>
<td>9540 N</td>
<td>600W</td>
<td>550W</td>
<td>500W</td>
</tr>
<tr>
<td>Magnetic Low Voltage (MLV)</td>
<td>450VA</td>
<td>450VA</td>
<td>450VA</td>
</tr>
<tr>
<td>Incandescent</td>
<td>1000W</td>
<td>800W</td>
<td>600W</td>
</tr>
</tbody>
</table>

Table 2 - Minimum Load - 9534 / 9536

<table>
<thead>
<tr>
<th>With 1 accessory dimmers</th>
<th>With 2 accessory dimmers</th>
<th>With 3 accessory dimmers</th>
<th>With 4 accessory dimmers</th>
<th>With 5 accessory dimmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>60W</td>
<td>100W</td>
<td>150W</td>
<td>200W</td>
<td>250W</td>
</tr>
</tbody>
</table>

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. Press the ON/OFF button to return to the previously saved minimum level (that may cause the light to flicker or turn OFF).
  3. Press the ON/OFF button to turn OFF the light.
  4. Press ON/OFF button, LED will flash indicating completion of programming

MULTIPLE LOCATIONS INSTALLATION - HOW TO IDENTIFY COMMON WIRES

- For Two and Three location installations you must first identify the Common Wire.
- The Smart Dimmer only needs to be connected to the relay associated with the accessory dimmer in the location where the icon is shown.
- The accessory dimmer must be connected to the relay associated with the common wire in the location where the icon is shown.
- The accessory dimmer must be connected to the relay associated with the common wire in the location where the Smart Dimmer is installed.
- The accessory dimmer must be connected to the relay associated with the common wire in the location where the common wire is shown.
- With lights ON or OFF.

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**ENGLISH**

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

**1. INSTALLATION**

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 the installation.

4. Connect Accessory Dimmer 1 in the location of the other 3-way switches, and tag these wires by following the instructions provided above. Refer to FIGURES 3a or 3b.

5. Connect 3-WAY LOCATION 1 in the location of the 4-WAY LOCATION.

6. Go to COMPLETING THE INSTALLATION.

**COMPLETING THE INSTALLATION**

1. Check and correct wiring.

2. Push in the disconnect airgap switch if needed.

3. Change bulb.

4. Enable rapid start feature.

5. Turn ON the circuit breaker.

6. Replace accessory dimmer.

**TROUBLESHOOTING GUIDE**

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light does not turn ON</td>
<td>1. Circuit breaker is off or tripped.</td>
<td>Turn ON the circuit breaker.</td>
</tr>
<tr>
<td></td>
<td>2. The disconnect airgap switch on the Smart Dimmer is pulled out.</td>
<td>Replace accessory dimmer.</td>
</tr>
<tr>
<td></td>
<td>3. Bulb is burned out.</td>
<td>Replace bulb.</td>
</tr>
<tr>
<td></td>
<td>4. Incorrect wiring.</td>
<td>Replace accessory dimmer.</td>
</tr>
<tr>
<td></td>
<td>5. Defective dimmer.</td>
<td>Replace accessory dimmer.</td>
</tr>
<tr>
<td>Erratic operation or flickering LEDs (9540-N only)</td>
<td>1. Loose wiring connections.</td>
<td>Check and correct wiring.</td>
</tr>
<tr>
<td></td>
<td>2. Low dim setting.</td>
<td>Replace accessory dimmer.</td>
</tr>
<tr>
<td></td>
<td>3. Incompatible bulb.</td>
<td>Replace accessory dimmer.</td>
</tr>
<tr>
<td></td>
<td>4. Load is less than 60 watts for single location or less than required wattage for multiple location. (See minimum/maximum wattage chart)</td>
<td>Replace accessory dimmer.</td>
</tr>
<tr>
<td></td>
<td>5. Defective accessory dimmer.</td>
<td>Replace accessory dimmer.</td>
</tr>
<tr>
<td>Dimmer is warm to touch</td>
<td>This is normal. Some increase in temperature is normal.</td>
<td>No action required.</td>
</tr>
<tr>
<td></td>
<td>Consumed load exceeds the dimmer rating.</td>
<td>Replace accessory dimmer.</td>
</tr>
<tr>
<td></td>
<td>Consumed load exceeds the dimmer rating.</td>
<td>Replace accessory dimmer.</td>
</tr>
</tbody>
</table>

**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.
2. This device must accept any interference received, including interference that may cause undesired operation.

**EXCLUSION OF WARRANTIES**

1. Eaton Wiring Devices disclaims all other warranties, expressed or implied, relating to the Smart Dimmer System, and no other representation or warranty, express or implied, is made including without limitation that the Smart Dimmer System is fit for any particular purpose, or that the Smart Dimmer System is free from any errors, omissions, or other defects.
2. Eaton Wiring Devices shall not be responsible to the extent that any such errors, omissions, or other defects are caused by or through the fault of the owner/user, the user's failure to follow Eaton Wiring Devices' instructions, or the user's failure to install, use, or maintain the Smart Dimmer System in accordance with Eaton Wiring Devices' instructions.
3. Eaton Wiring Devices excludes any implied warranties, including without limitation any implied warranties of merchantability or fitness for a particular purpose.
4. Eaton Wiring Devices disclaims any liability for any loss or damage resulting from the use of the Smart Dimmer System.
5. Eaton Wiring Devices shall not be liable for any special, indirect, consequential, or incidental damages or other damages in connection with the use, performance, or inability to use the Smart Dimmer System, even if Eaton Wiring Devices has been advised of the possibility of such damages.

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