



# BROAN NuTone Overture Hardwired Room Sensor User Guide

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**BROAN NuTone Overture Hardwired Room Sensor**



## **Overture™ HARDWIRED ROOM SENSOR**

The Overture™ Hardwired Room Sensor is a smart control device that is designed to work with the Overture™ system. It allows you to monitor and control various aspects of your home environment.

### **INCLUDED**

- Hardwired Room Sensor Part No. 1110725
- User Manual
- Quick Start Guide
- Wire Nuts: Quantity 3

### **CONTROL SPECIFICATIONS**

The Overture™ Hardwired Room Sensor requires a 120 VAC power source (hot and neutral) in the switch box to operate.

### **SAFETY**

To ensure safety and prevent any risks of fire, electric shock, or injury to persons, please observe the following precautions:

1. Before installing the Hardwired Room Sensor, turn off the power and lockout the service panel.

### **INSTALLATION**

Follow these steps for proper installation of the Overture™ Hardwired Room Sensor:

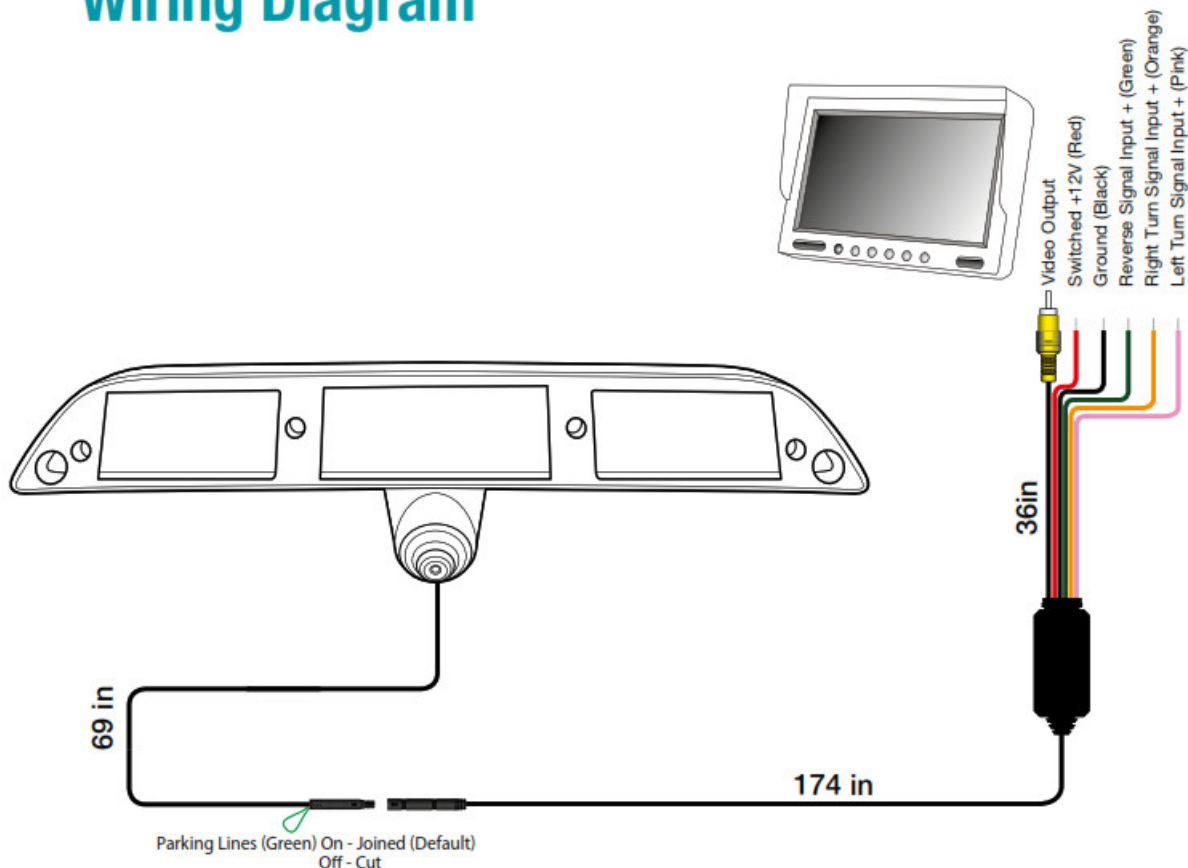
#### **1. Location Notes:**

- The control should be placed on interior walls only at switchbox height from the floor.
- Avoid placing the control near HVAC equipment such as heat registers, cold air returns, heaters, fans, and drafts.
- Ensure that the Hardwired Room Sensor is within the range of your Wi-Fi router or access point (approximately 100 feet).

- Avoid physical obstructions and radio interference in the surrounding area.
2. Install the control in at least a 3 deep dual-gang junction box. It can be installed in either a metal outlet box or a plastic outlet box.
  3. Attach the incoming power line to the switch box, using proper connectors. Provide 6 leads inside the box if necessary.
  4. Make electrical connections following the wiring diagram provided or refer to the Broan-NuTone Overture™ website. Use wire nuts and ensure proper grounding.
  5. Tuck the wires in and fasten the control to the junction box using the attached screws. Verify the orientation of the Hardwired Room Sensor before installation (UP direction shown on the front of the control).
  6. Attach the front cover by aligning the top locators and snaps on the bottom. Push to secure.
  7. Download the Broan-NuTone Overture™ App for step-by-step set-up instructions to connect your Hardwired Room Sensor to the Overture™ system. Scan the QR code to go to the App Store.

For Warranty Statement, Service Parts, Technical Support, or to Register your product, please visit our website or call: In the United States – Broan-NuTone.com 800-558-1711. In Canada – Broan-NuTone.ca 800-567-3855

## Wiring Diagram



### BIAQHRS100 Wiring Diagram

Power Supplied to Switch Box  
120 VAC LINE IN  
Switch Box  
BLK WHT GND  
1110078A

### INCLUDED

- Hardwired Room Sensor Part No. 1110725
- User Manual
- Quick Start Guide
- Wire Nuts: Quantity 3

## **CONTROL SPECIFICATIONS**

- cULus Listed
- 120 VAC 60 Hz Line Power
- Typical Wire Sizes: 12 AWG (MAX) or 14 AWG solid wire rated for at least 90°C
- Operating temperature: 32-95°F (0-35°C)
- Purpose of Control: Operating Control
- Rated impulse voltage: 2500 V

## **SAFETY**

### **TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**

1. Before installing the Hardwired Room Sensor, switch power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.  
CAUTION: Risk of Electric Shock – More than one disconnect switch may be required to de-energize the equipment before servicing.
2. All electrical work must be done in accordance with local codes, ordinances, or National Electrical Code, as applicable, including fire-rated construction codes and standards. **FOR SAFETY, THIS PRODUCT MUST BE GROUNDED.** If you are unfamiliar with methods of installing electrical wiring, secure the services of a qualified electrician.
3. Use copper wire only.
4. Install only in a UL Listed dual-gang junction box sized 4.0 x 3.0 x 3.0 in. (101.6 x 76.2 x 76.2 mm) or larger, with a minimum volume of 30.0 in<sup>3</sup> (491.6 cm<sup>3</sup>) and a minimum depth of 3.0 in (76.2 cm).
5. This control requires a neutral wire for operation.
6. When cutting or drilling into wall or ceiling, do not damage electrical wiring or other hidden utilities.
7. To prevent serious injury from electrical shock or damage to electrical components – **DO NOT WIRE HOT!**
8. The automatic operation feature is Type 1 action, according to UL 60730-1.
9. The enclosure protection rating is IP10.
10. The product is Pollution Degree 2, which is intended to be used in a household environment or similar.
11. The devices are not intended for use in locations where the temperature may be less than actual room conditions, such as unheated warehouses or garages.
12. Avoid water and wet locations. Keep the device away from water, fire, excessive humidity, or hot environments.
13. Do not use the device where wireless devices are not allowed.
14. Do not attempt to disassemble, repair, or modify the device. Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.

15. **Note:** When power is applied, the Hardwired Room Sensor 1110725 may require approximately 30 seconds to boot up and be ready to function.
16. Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to the improper use of the device. Please use this product with care and operate at your own risk.

Warranty is void if miswired.

## INSTALLATION

**NOTE:** This control requires a 120 VAC source (hot and neutral) in the switch box to operate the Hardwired Room Sensor.

1. Turn off the power and lockout the service panel before wiring the control.
2. Location

**Notes:**

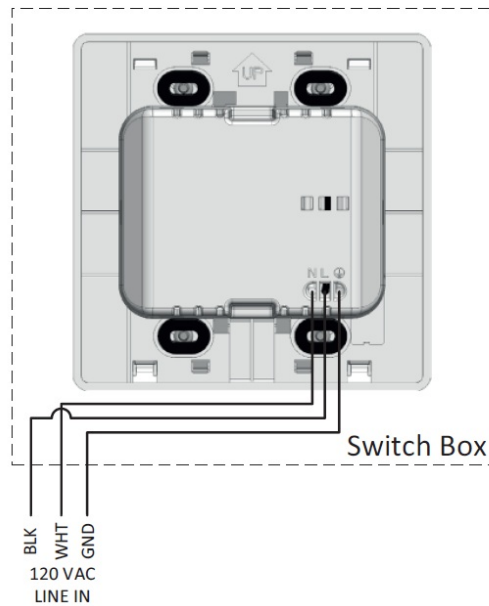
- The control should be placed on interior walls only at switch box height from the floor.
  - Keep the control away from HVAC equipment such as heat registers, cold air returns, heaters, fans, and drafts.
  - Place your Hardwired Room Sensor within the range of your Wi-Fi router or access point (approximately 100 feet).
  - Avoid physical obstructions and radio interference in the surrounding area.
3. Install the control in at least a 3" deep dual-gang junction box. The control can be installed in either a metal outlet box or a plastic outlet box.  
Attach the incoming power line to switch box. It may be necessary to use two side knockouts for some applications. Use proper connectors. Provide 6" leads inside box.
  4. Make electrical connections following the diagram below or on the Broan-NuTone Overture™ website. Use wire nuts. Make sure the control is properly grounded.
  5. Tuck wires in and fasten control to junction box using attached screws. Verify Hardwired Room Sensor orientation before installation. Note "UP" direction shown on the front of control.
  6. Attach front cover by aligning top locators and snaps on the bottom. Push to secure.
  7. Download the Broan-NuTone Overture™ App for step by step set-up instructions to connect your Hardwired Room Sensor to the Overture™ system. Scan QR code to go to App Store.



For Warranty Statement, Service Parts, Technical Support, or to Register your product, please visit our website or call: In the United States – Broan-NuTone.com 800-558-1711. In Canada – Broan-NuTone.ca 800-567-3855

## BIAQHWRS100 Wiring Diagram

## Power Supplied to Switch Box



### Regulatory Information

The Overture™ Hardwired Room Sensor 1110725 is certified to comply with applicable FCC and IC rules and regulations governing RF and EMI emissions. Refer to 1110725.

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.

The distance between user and device should be no less than 20 cm.

### FCC Notice

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 to help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### ISED Compliance Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s).

## Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

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## Regulatory ID for 1110725 Overture™ Hardwired Room Sensor


- **FCC ID:** 2ADLL-1110725
- **IC:** 2143B-1110725

## CAN ICES-003(B) / NMB-003(B)

Made in China to the quality standards and specifications of Broan-NuTone LLC, 926 West State Street, Hartford, Wisconsin, USA 53027 Broan-NuTone.com 800-558-1711  
Venmar Ventilation ULC, 550 Lemire Blvd., Drummondville Québec Canada J2C 7W9 Broan-NuTone.ca 800-567-3855

For more information and user manuals scan QR code below.

## Documents / Resources

	<p><a href="#">BROAN NuTone Overture Hardwired Room Sensor</a> [pdf] User Guide 1110725, 2ADLL-1110725, 2ADLL1110725, NuTone Overture Hardwired Room Sensor, Overture Hardwired Room Sensor, Hardwired Room Sensor, Room Sensor, Sensor</p>
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## References

- [BN Broan-NuTone - Residential exhaust ventilation and air quality products](#)
- [BN Broan-NuTone - Better Air. Better Life.](#)