LUTRON A-WN-D01-OCC Athena Wireless Node Instruction Manual

LUTRON

A-WN-D01-OCC Athena Wireless Node
Instruction Manual

Contents

Athena Wireless Node

Part of the Athena System
Please read before installing

A-WN-D01-OCC Athena Wireless Node with Sensor
A-WN-D01-RF Athena Wireless Node (RF only)
9.5 – 28.8 V46 mA max

SELV / NECR Class 2
UL2043 Plenum Rated

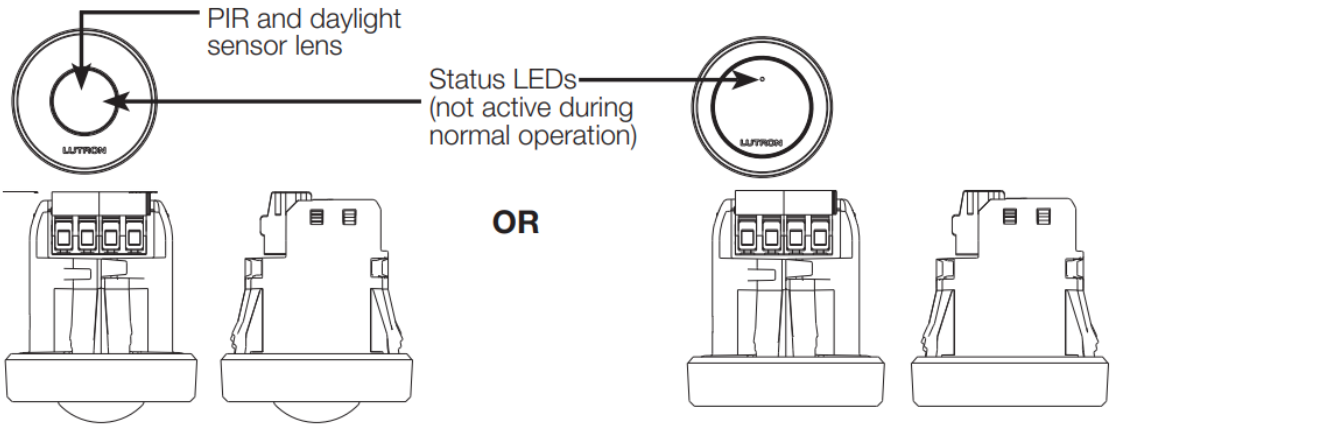
Important Notes:

- Install in accordance with all local and national electrical codes.
- Use copper conductors only.
- Check to see that the device type and rating is suitable for the application.
- DO NOT install if product has any visible damage.
- If moisture or condensation is evident, allow the product to dry completely before installation.
- Operate between 32 °F and 131 °F (0 °C and 55 °C), ambient.
- 0% to 90% humidity, non-condensing.
- For indoor use only.
- Athena Wireless Node with Sensor should be mounted to fixture in orientation that makes it parallel to the floor when fixture is installed in ceiling.
- Clean only with soft, damp cloth; no chemical cleaners.
- DO NOT paint.
- Disconnect power at the breaker before servicing.

Default Functionality

The device will perform an unprogrammed startup sequence for up to 15 seconds on every power up where the lights will fade between high-end, low-end and Off. It will change between the supported color temperature extremes and will then stay at 100% intensity and 4000 K (if supported) until the device is added to an Athena system.
Occupancy, Vacancy, and Daylighting functionality (sensor only) is disabled until the device is added to an Athena system.

Required Components For each fixture, you will need:
One Athena Wireless Node

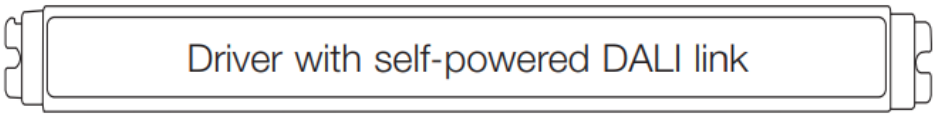


Athena Wireless Node with Sensor (A-WN-D01-OCC)

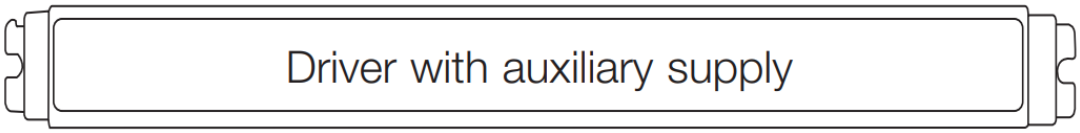
Athena Wireless Node (RF only) (A-WN-D01-RF)

Note: Neither Daylighting functionality nor occupancy sensing is available in the A-WN-D01-RF

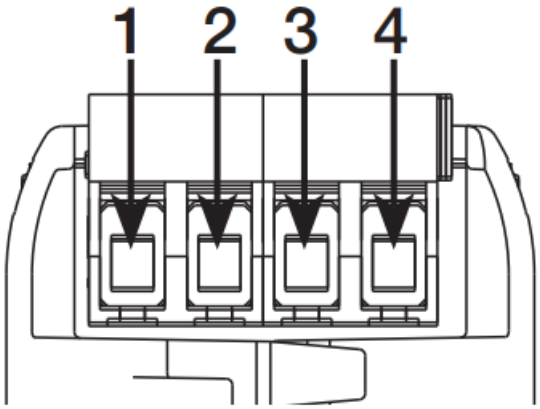
DALI Function
At least one driver with self-powered DALI link



0-10 V Function
At least one driver with auxiliary supply



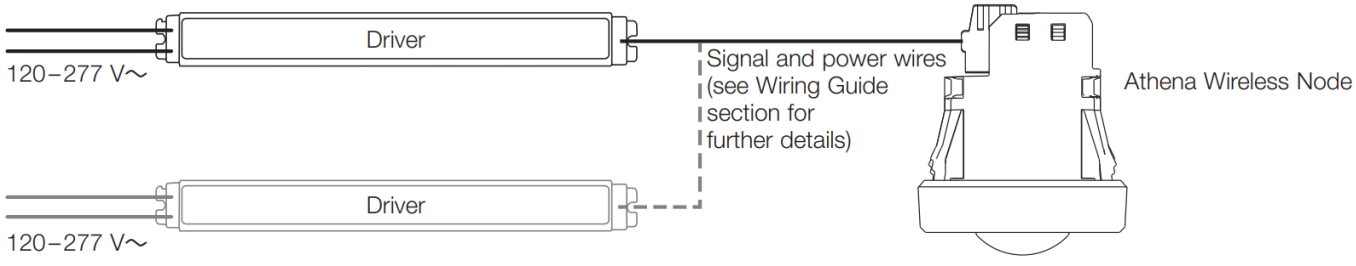
Wiring Guide



Connector Position	DALI Function	0-10 V Function
1	DA	AUX+
2	DA	AUX-
3	N/C	SIG+
4	N/C	SIG- / DGND

Start Here

Connect Wires using Diagram Below



Athena Wireless Node controls up to 5 drivers depending on supply current.
IEC 62386 Part 250 requires a minimum guaranteed supply current of 50 mA with a maximum of 250 mA.
Note: When using multiple drivers with integrated bus supplies, the “+” terminals from the drivers must be tied together and the “-“ terminals from the drivers must be tied together. Do NOT mix “+” and “-” when using multiple drivers that are supplying power.

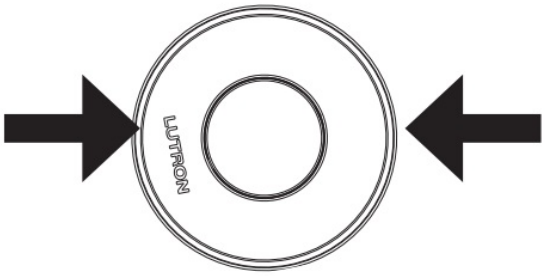
Install Athena Wireless Node

- Ensure knockout / cutout and adjacent surfaces are free from burrs, oil, chemicals, debris, etc.
- Insert Athena Wireless Node perpendicularly into knockout / cutout. If pre-wired, angle device into knockout to allow wires to pass through, then hook remaining length of device into knockout.
- Push firmly on the Athena Wireless Node around the entire perimeter until it sits flush against the intended fixture mounting surface. Do not push on the PIR lens to install the Athena Wireless Node.
- Apply power.
- Do not fully enclose within the metal fixture.
- Athena Wireless Node supports solid and stranded conductors of 26-18 AWG (0.2-0.75 mm 2).

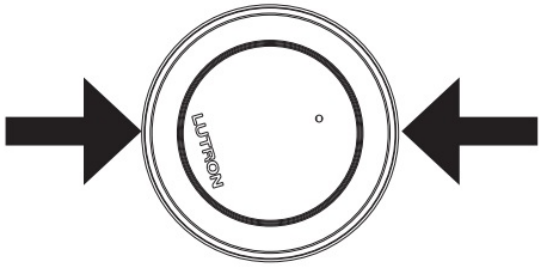
Removing Athena Wireless Node

The Athena Wireless Node mounts in the fixture by way of two pairs of snaps on the device body.
To remove the device, a pry tool must be used to deflect the snaps inward and allow removal of the unit.
Tools required:
Small flathead screwdriver, stiff putty knife or equivalent prying tool.
Removal instructions:
Begin by identifying the preferred prying areas (indicated by arrows below) on the device:

For A-WN-D01-OCC:



For A-WN-D01-RF:



If you have access to one or both preferred prying areas:

1. Using a small flathead screwdriver or other prying tool, place the prying edge of the tool at one of the preferred pry points between the fixture surface and the lip of the device flange.
2. Keeping the edge of the pry tool under the flange lip, push directly inward toward the center of the device.
3. As you push inward, slowly pry upwards and outward with the pry tool. As the snap disengages, the edge of the unit will pop up out of the fixture hole.
4. Repeat steps 1-3 at the opposite pry point to disengage the other snaps.
5. Once all snaps have disengaged, the unit may be pulled straight out by hand.
6. Remove wires from the unit by unscrewing the screw terminals on the connector.

If you do not have access to one or both preferred prying areas:

1. Using a small flathead screwdriver, place the tool edge between the fixture surface and lip of the device flange as close to one of the preferred prying areas as possible.
2. Push the prying edge of the screwdriver inward until it is under the flange lip and stopped against the body of the device.
3. Gently twist the screwdriver blade to lift the flange. The nearest snap location should pop out of the fixture hole.

4. Repeat steps 1-3 on the opposite side of the device to disengage the other snaps.
5. Once snaps have disengaged, the unit may be pulled straight out by hand.
6. Remove wires from the unit by unscrewing the screw terminals on the connector.

Troubleshooting

www.lutron.com/support

Symptom	Solution
Sensor does not respond to motion .	Athena Wireless Node is not associated with an Athena system. Please f ollow programming instructions to associate device to an Athena system.
Lights do not dim or turn ON as ex pected.	Ensure that control lines are wired properly. Verify that the driver with self-powered DALI link has the supply activated OR auxiliary DC supply is in use. Contact driver manufacturer for details.
Lights are unstable at low-end.	Adjust low-end trim. Refer to Athena documentation on www.lutron.com.
The “Raise” button on the associat ed control does not increase the lig ht level.	The lights cannot be raised above the Daylighting light level using a contr ol. If it is critical to override the daylight level, disable daylighting from the Athena application.
End-of-Line test does not affect col or temperature of fixture.	Color temperature control is not supported in 0-10 V control applications. I f using DALI, confirm that driver supports color temperature control via IE C62386-209.

***Note:** These could apply to either the OEM or to the end customer.
For set-up, programming, and troubleshooting with an Athena system, please refer to the installation instructions included with the Athena hub or at www.lutron.com

FCC / IC information

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). 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. Modifications not expressly approved by Lutron Electronics Co., Inc. could void the user’s authority to operate this equipment.

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:

- Re-orient 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.

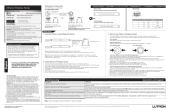
This equipment complies with FCC / ISED radiation exposure limits set forth for an uncontrolled environment. The user should avoid prolonged exposure within 20 cm of the antenna, which may exceed FCC/ISED radio

frequency exposure limits.

Lutron Electronics Co., Inc. 7200 Suter Road
Coopersburg, PA 18036-1299 USA

Customer Assistance
1.844.LUTRON1 USA, Canada, and the Caribbean
+1.888.235.2910 Mexico
+1.610.282.3800 Others
www.lutron.com

Documents / Resources

	**LUTRON A-WN-D01-OCC Athena Wireless Node** [pdf] Instruction Manual A-WN-D01-OCC Athena Wireless Node, A-WN-D01-OCC, Athena Wireless Node, Wireless Node, Node

References

- **Lutron: Beautiful light. Intelligent Shades. Powerful Controls**
- **Lutron Support Center | Lutron**