

DLA Adapter

INSTALLATION INSTRUCTIONS



PRODUCT SAFETY

- ⚠️ Digital Light Agent™ (DLA) hardware must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
- ⚡ To avoid risk of electrical shock, disconnect power before installing, wiring, or servicing DLA hardware.
- ⚠️ Do not use fixture or DLA hardware if the housing, sensor optic or wires are damaged.
- ⚠️ Do not apply paint, lubricants, or other coatings to the DLA housing.
- ⚠️ Use a dry cloth to clean the DLA housing or sensor optic.
- ⚠️ Wire connections shall be rated suitable for the wire size (lead and building wiring) employed.

GETTING STARTED

OVERVIEW

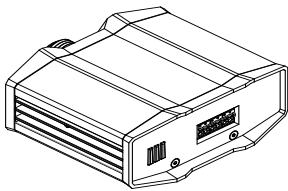
The DLA system transforms light fixtures from third-party manufacturers into an intelligent light with high-performance sensors, power metering, full-range dimming, and software optimization capabilities.

There are two categories of DLA components: *DLA sensors* and *DLA adapters*.

- DLA sensors measure occupancy and ambient light. They also control connected fixtures through a direct link with Philips SR (Sensor Ready) drivers, DALI drivers, or through 0-10V adapters (for older 0-10V LED drivers). DLA sensors communicate wirelessly with the LightRules system to receive commands and send data.
- DLA adapters measure fixture power consumption. They also convert the digital commands from DLA sensors into an analog 0-10V signal for use with 0-10V dimming LED drivers.

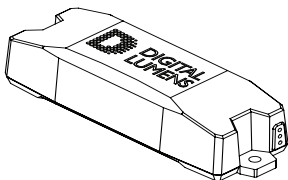
Note that this document covers DLA adapters. Please refer to the *DLA Sensor Installation Instructions* for sensor wiring and setup.

ADAPTER TYPES



DLA-CA (Circuit Adapter)

Use the DLA-CA when you want to control a group or circuit of fixtures via a single sensor module. The DLA-CA mounts via an integrated nipple to a 1/2 in trade-size knockout on a junction box or fixture.

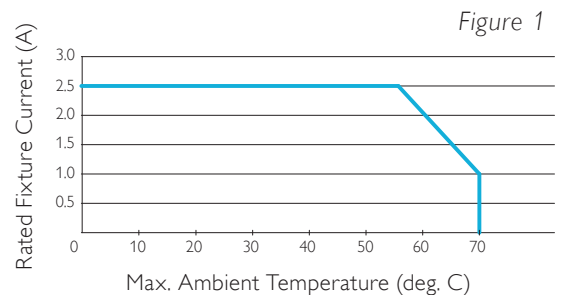


DLA-FA (Fixture Adapter)

Use the DLA-FA when you want to control a single fixture using a single sensor module. The DLA-FA mounts inside the fixture.

INSTALLATION GUIDELINES

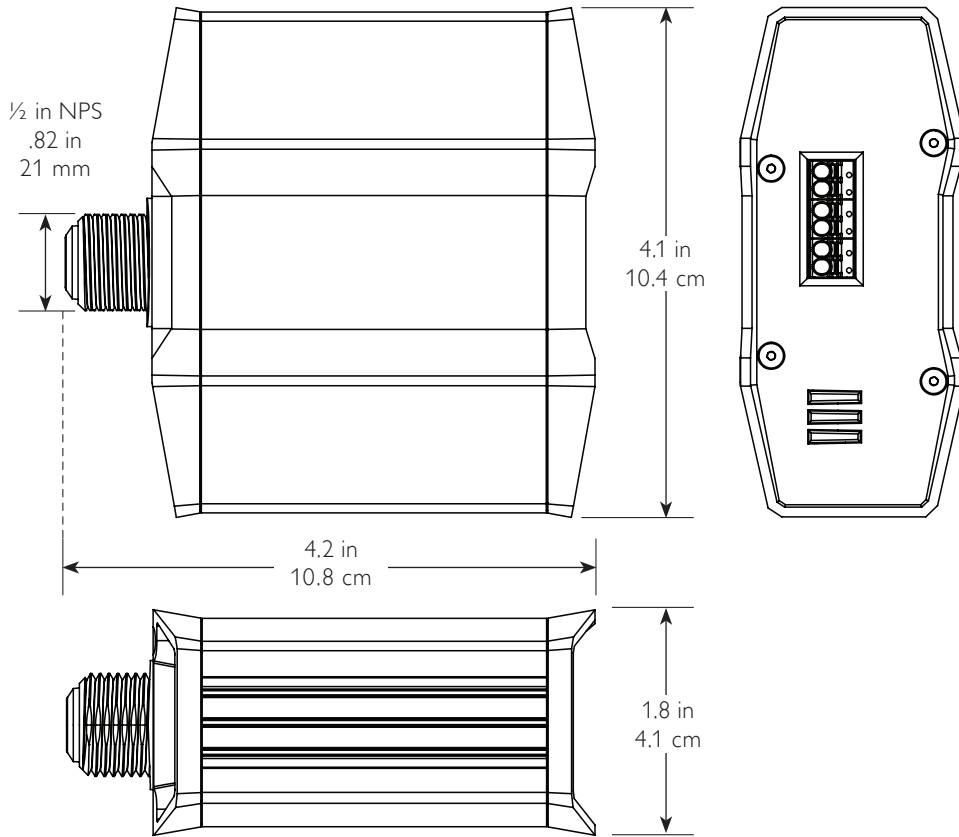
- 0-10V, AUX, and DALI are Class 2 circuits.
- Class 2 wiring: All field wiring shall be suitable for Class 1, Electric Light and Power, or Class 2, 3 wirings are routed separately and secured to maintain separation between 1) Class 2 wiring and all other class wiring, and 2) limited energy circuit conductors from unlimited energy circuit conductors.
- The maximum length for 0-10V, AUX, and DALI wiring is 150 ft (45 m).
- Install DLA-CA hardware in a space that is inaccessible during normal use.
- One DLA-CA can provide switched AC power for up to 7 A of load.
- Note the temperature rating curve in *Figure 1* prior to installing DLA-FA.



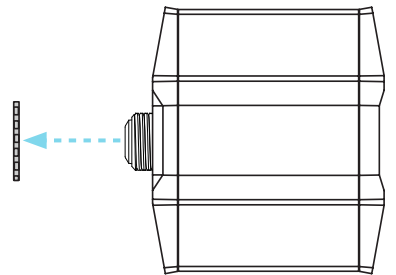
Step One: Install DLA Hardware

DLA-CA Installation

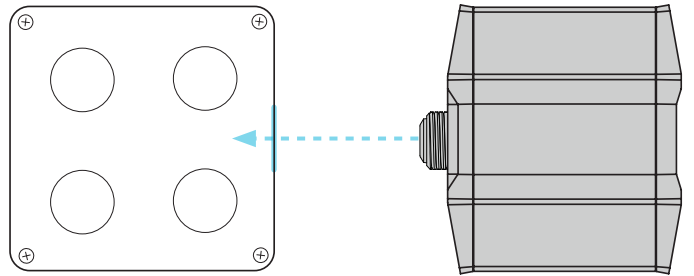
1. Review DLA-CA dimensional drawings.



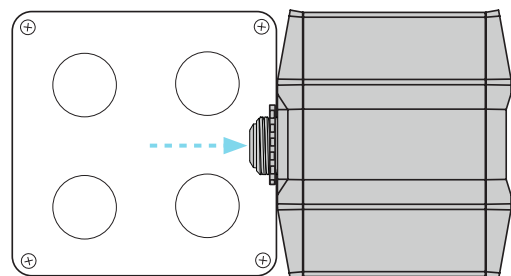
2. Unscrew metal conduit nut from DLA-CA.



3. Insert DLA-CA threaded nipple through a 1/2 in trade-size knockout in junction box or fixture.



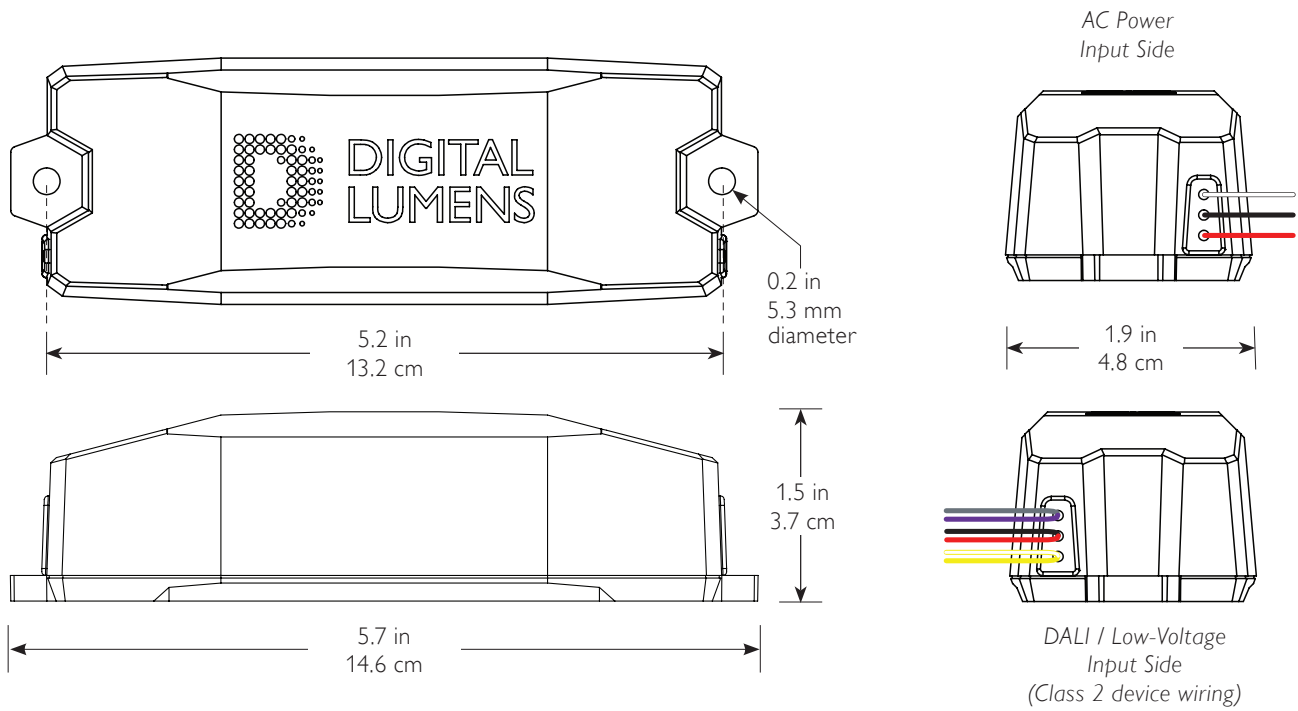
4. Tighten locknut to secure DLA-CA to junction box.



Step One: Install DLA Hardware, cont.

DLA-FA Installation

1. Review DLA-FA dimensional drawings.

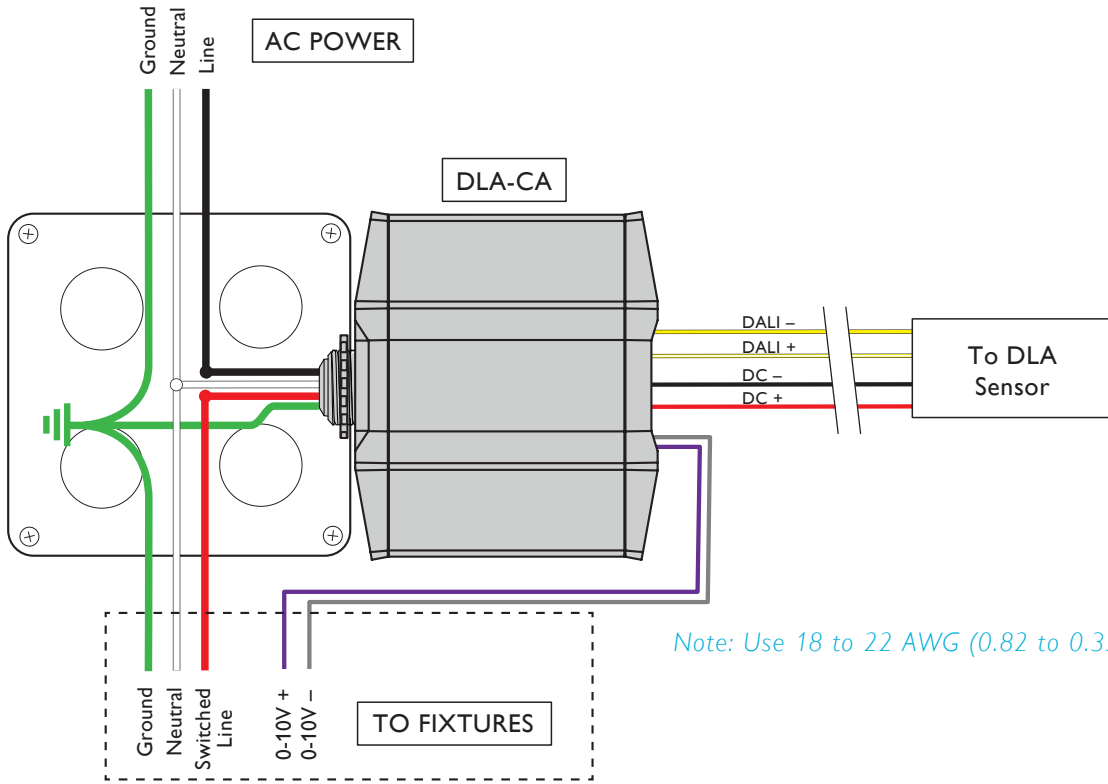


2. Using appropriate fasteners, secure the DLA-FA to the interior of the lighting fixture. Be sure to attach the DLA-FA within the same cavity as the fixture driver.

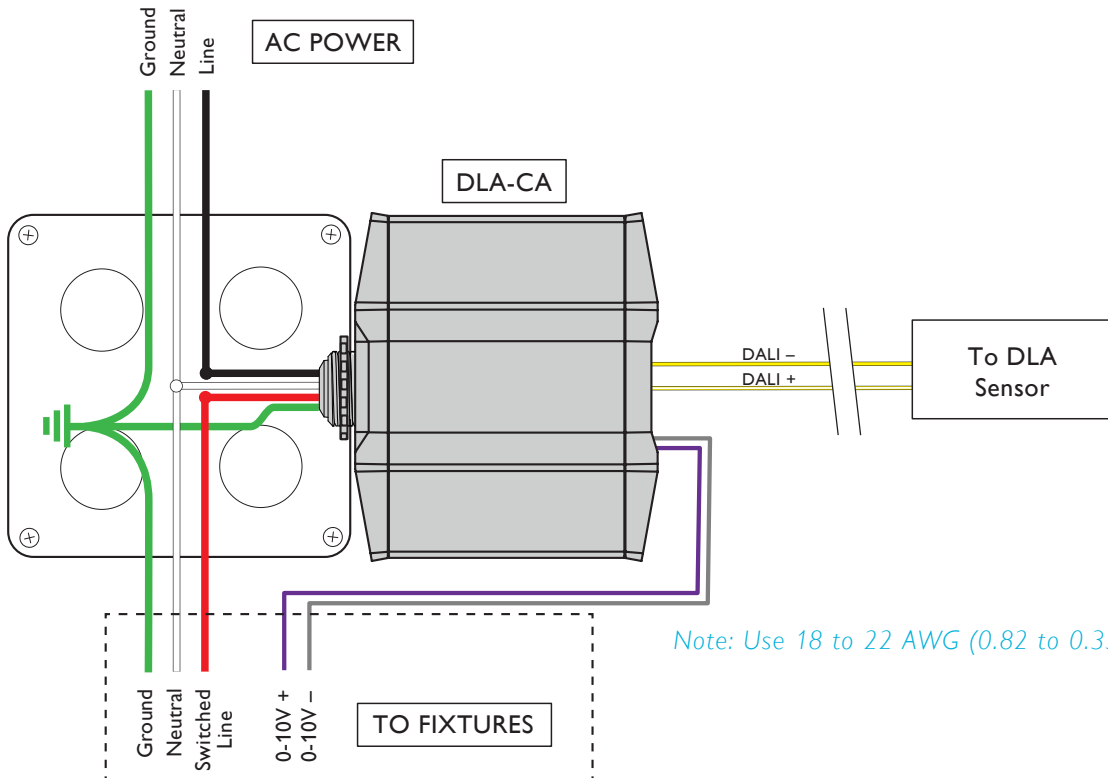
Step Two: Make Power and Data Connections

DLA-CA WIRING DIAGRAM

For DLA Sensors with DC Power Leads



For DLA Sensors without DC Power Leads

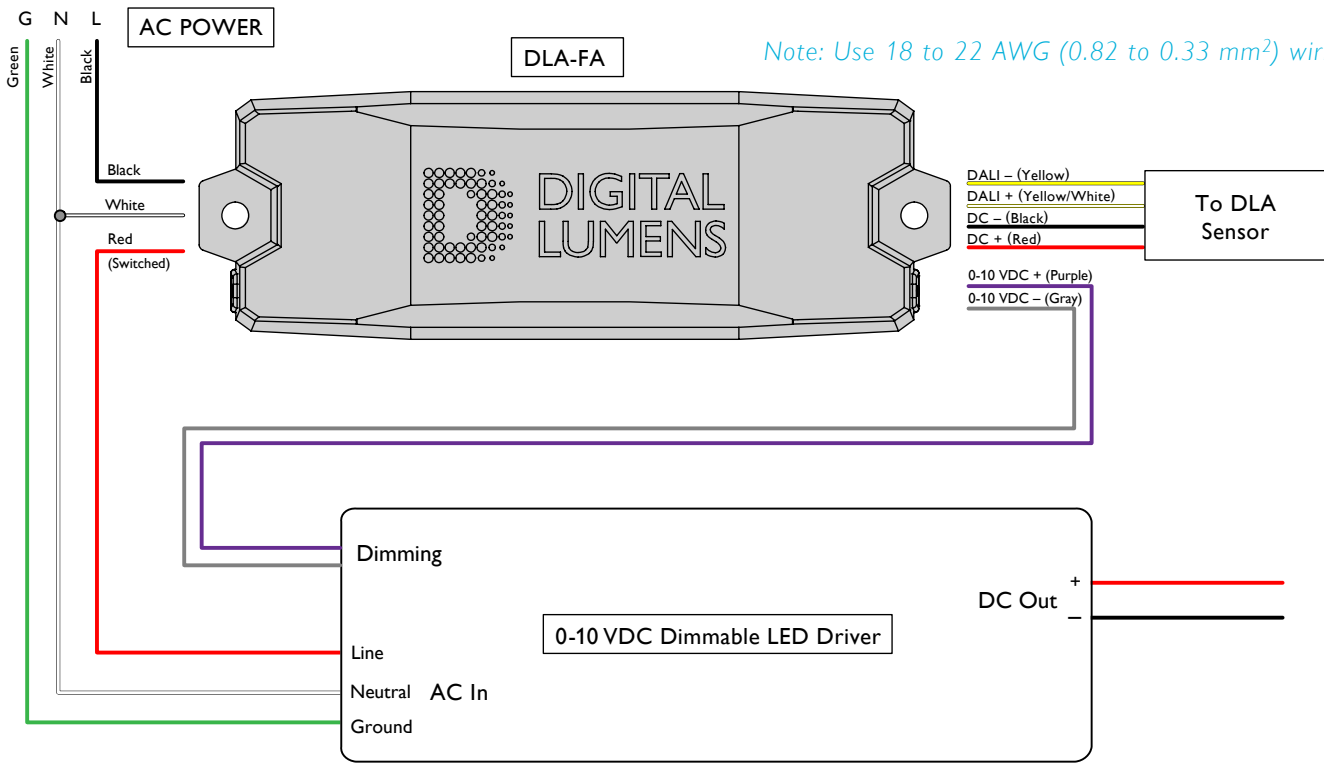


Step Two: Make Power and Data Connections, cont.

DLA-FA WIRING DIAGRAM

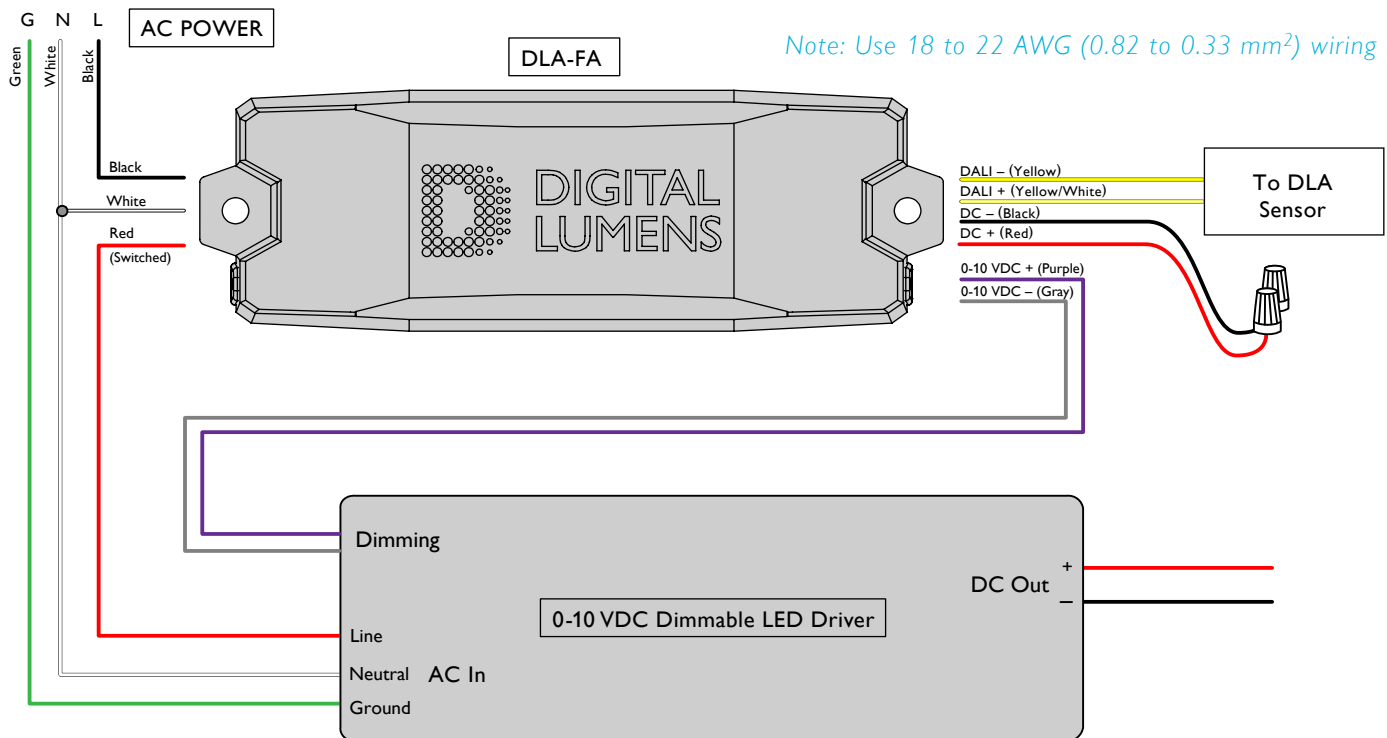
For DLA Sensors with DC Power Leads, Class 2 Device Wiring

Note: Use 18 to 22 AWG (0.82 to 0.33 mm²) wiring



For DLA Sensors without DC Power Leads, Class 2 Device Wiring

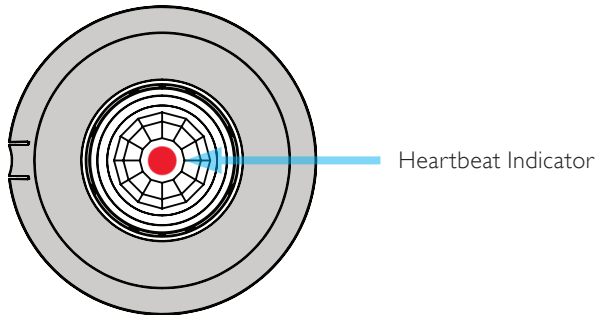
Note: Use 18 to 22 AWG (0.82 to 0.33 mm²) wiring



Step Three: Verify DLA Hardware

Locate Heartbeat

Once the installed DLA unit, including adapter and sensor, is powered ON, you can verify that the equipment is receiving power by locating the DLA heartbeat. Look at the sensor lens: Every 30 seconds, you should see a blinking red LED indicator.



Note that until the DLA unit is programmed using Commissioner software, the DLA unit will use the following settings, which effectively tell the connected light fixture(s) to remain ON at 100%, with no occupancy sensing:

Active Light Level: 100%

Inactive Light Level: 100%

Occupancy Sensor Delay: Sensor Inactive

