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 and sensor optic.

GETTING STARTED

OVERVIEW

The DLA system transforms 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 sensors. Please refer to the DLA Adapter Installation Instructions for adapter setup.

SENSOR TYPES

**DLA-R (Recessed Mount)**
Use the DLA-R when you want to blend the sensor into an environment by mounting flush to a junction box or a ceiling tile.

**DLA-E (Philips EvoKit)**
The DLA-E is designed to install in the mounting slot of the Philips EvoKit SR retrofit kit.

**DLA-S (Surface Mount)**
Featuring an IP65 rating, use the DLA-S in challenging environments. DLA-S mounts to a ceiling surface or NEMA 4 or weatherproof junction box.

**DLA-I (Integrated Mount)**
The DLA-I mounts directly into any third-party fixture — the housing mounts inside and the lens assembly extends externally.

HELPFUL HINTS

- Install the DLA sensor in a manner so as to provide a clear field of view for the lens.
- Do not mount the DLA sensor within 5 ft (1.5 m) of an air vent.
- Consult the DLA specification sheets for detail regarding mounting heights and occupancy sensor coverage patterns.
**Step One: Install DLA Hardware**

**DLA-R Installation**

**METHOD ONE: CEILING TILE INSTALLATION**

a. Review the DLA-R dimensional drawings, above.

b. Remove and put aside the extra serial number label.

c. Remove the plastic bezel.
   
   Hint: Place your thumb on the notch in the bezel and pull away to release.

d. Using the metal mounting plate as a template, trace the inner profile and the screw holes and then cut the ceiling tile using an appropriate saw.

e. Insert the sensor housing up through the hole in the ceiling tile, place the mounting plate on the back of the ceiling tile around the sensor housing, and then secure using the (2x) supplied Phillips screws.
   
   Note: Place the flat side of the collar against the tile.

f. Replace the bezel.

g. Make power and data connections (see Step Two on page 6).

**METHOD TWO: 4-INCH ROUND JUNCTION BOX INSTALLATION**

a. Review the DLA-R dimensional drawings, above.

b. Remove and put aside the extra serial number label.

c. Remove the plastic bezel.
   
   Hint: Place your thumb on the notch in the bezel and pull away to release.

d. Discard the metal mounting plate.

e. Make power and data connections (see Step Two on page 6).

f. Insert the sensor housing into the junction box and then secure using the (2x) supplied Philips screws.

g. Replace the bezel.
Step One: Install DLA Hardware, cont.

DLA-E Installation

STANDARD INSTALLATION METHOD

a. Remove and put aside the extra serial number label.
b. Make power and data connections (see Step Two on page 7).
c. Insert the sensor housing up through the existing cutout in the Philips EvoKit SR fixture.
d. Slide the sensor housing sideways until it ‘snaps’ into place.
e. Install the Philips EvoKit SR fixture as per the manufacturer’s instructions.

Finished Assembly
Step One: Install DLA Hardware

DLA-S Installation

**Important Note**
The DLA-S is IP65-rated and designed for use in damp or wet environments. Ensure that the included mounting gasket is intact before installation.

**METHOD ONE: CEILING INSTALLATION**

a. Review the DLA-S dimensional drawings, above.
b. Remove and put aside the extra serial number label.
c. Remove the plastic bezel.
   
   **Hint:** Squeeze the two flat areas on the edge of the bezel and pull away to release.
d. Cut a .5 in (7 mm) or greater hole in the ceiling panel and run the power and data wires through the opening.
e. Make power and data connections (see Step Two on page 8).
f. Secure the housing using suitable fasteners (supplied by installer).
g. Replace the bezel.

**METHOD TWO: 4-INCH IP65 JUNCTION BOX INSTALLATION**

a. Review the DLA-S dimensional drawings, above
b. Remove and put aside the extra serial number label.
c. Remove the plastic bezel.
   
   **Hint:** Squeeze the two flat areas on the edge of the bezel and pull away to release.
d. Make power and data connections (see Step Two on page 6).
e. Secure the housing to an IP65 round NEMA 4 or weatherproof enclosure using the (2x) supplied Philips screws.
f. Replace the bezel.
Step One: Install DLA Hardware, cont.

**DLA-I Installation**

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**Important Note**

The DLA-I is designed to install within a third-party fixture housing, with the sensor optic extending externally. Be sure to install the gasket and hex nut in the correct order, as shown to the right.

**STANDARD INSTALLATION METHOD**

a. Review the DLA-I dimensional drawings, above.
b. Remove and put aside the extra serial number label.
c. Detach the lens assembly by turning it counter-clockwise.
d. Remove the hex nut.
e. The DLA-I requires a 1 in trade-size knockout (1.3 to 1.4 in / 3.3 to 3.6 cm hole) for proper mounting and sealing.
f. Install the DLA-I module inside the fixture housing, with the threaded nipple extending outside the fixture housing through the opening created in the previous step.
g. Secure the housing using the supplied hex nut. Tighten the hex nut.
h. Re-connect the lens assembly, turning it clockwise the lens assembly stops rotating.
i. Make power and data connections (see Step Two on page 6).
j. Install the third-party fixture as per the manufacturer’s instructions.
Step Two: Make Power and Data Connections

**DLA-R, DLA-S and DLA-R Wiring Examples (DLA-R shown)**

**DALI Wiring**

- **DALI Bus Supply** (Third Party)
- **DALI LED Driver** (Third Party)

**Connect with up to three (3x) additional DALI drivers**

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

**Philips® SR Wiring**

- **Philips Xitanium SR LED Driver**

**Connect with up to three (3x) additional drivers**

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

**0-10 VDC Wiring**

- **0-10 VDC Dimmable LED Driver**

**Connect with up to three (3x) additional DLA adapters**

**Note:** Use 18 to 22 AWG (0.82 to 0.33 mm²) wiring
Step Two: Make Power and Data Connections, cont.

DLA-E Wiring Example

Philips EvoKit SR Wiring

Note: Use 18 to 22 AWG (0.82 to 0.33 mm²) wiring
Step Three: Update the Sticker Book

Guidelines

• Each DLA comes with an extra metallic serial number label.
• It is critical that you adhere the label to the sticker book, which represents the facility’s floor plan. Place the label in the box that corresponds to the relative location of the DLA within the facility.
• Note that without an accurate and complete sticker book, the facility’s lighting management software cannot be programmed and the installation process may be delayed.
• The project manager will provide access to the sticker book.

Step Four: Verify DLA Hardware

Locate Heartbeat

Once the fully 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