

Use this guide to install the SensorSwitch TLS SSA sensor, choose the appropriate startup path, form wireless groups, and access advanced configuration options as needed.

- **Applications:** Industrial high bay and outdoor luminaires.
- **Core capabilities:** PIR occupancy, daylighting, IP66 ingress protection, and operation from -40°C to 80°C.
- **Programming options:** IWP infrared remote, RFID powerless programming, and Clairity+ app.

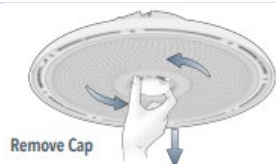
Quick reference

Recommended group size: 24 devices
Secure group within 3 hours of energization

1. Install the Sensor

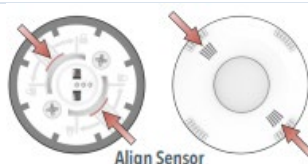
Remove cap

Twist the luminaire cap a quarter turn counterclockwise and remove it.



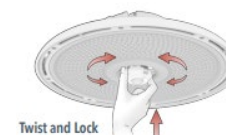
Align sensor

Align the keyed TLS SSA sensor with the twist to lock mount.



Twist to install

Twist the sensor into the mount until fully seated and secure.



2. Choose the Startup Method

Factory Default (Standalone)

Best for fast installation when no grouping is needed.
Power required: Yes
Sensor operates standalone using factory defaults.

IWP IR

Best for field setup and group formation after installation.
Power required: Yes
Select settings, assign Group ID, and send.

RFID Prestage

Best for configuring settings before the sensor is powered.
Power required: No
Place IWP in contact with the sensor or packaging, then write settings.

Clairity+

Best for advanced configuration, reporting, and ongoing adjustments.
Power required: Yes
Create or access groups, add or remove devices, update firmware, and generate report.

Factory default behavior after power up

TLS SSA sensor operates standalone until group numbers are assigned, or groups are formed using the Clairity+ app.
Default settings are: Hold Time 7.5 minutes, Dim to Level 10%, and Turn Off After 2.5 minutes.

3. Group Formation Workflow

Need individual operation?

Power luminaire.
Use factory defaults or write settings with IWP.
No Group ID is required.

Need sensors to operate together?

Assign the same Group ID to all sensors in the group.
Send desired settings to each sensor.
Recommended group size is 24 devices.

Need to protect settings?

Enter a 6 digit PIN using the IWP.
Store PIN, then send Secure Group command.
Allow about 10 minutes for the group to secure.

Important! Assign the same Group ID to every sensor that should operate together. PIN setup and group security can only be modified within 3 hours of energization.

4. Daylighting Broadcaster Optional Setup

Choose one sensor node in the group to act as the daylighting broadcaster.

In Write Behaviors, open Daylighting, enter a setpoint from 1 to 50 fc or Auto, then select Set Daylighting Broadcaster and send.



5. IWP, RFID, and Clairity+ (Notes)

IWP IR Programming	RFID Powerless Programming (direct contact)	Clairity+ Advanced Management
Bright ambient light can disrupt IR programming.	Program settings while the sensor is unpowered.	Create a new group with 6-digit PIN or access the IWP created groups using the same secure group PIN.
Range is up to 50 ft with up to 30° angle.	Visual feedback confirms programming success.	Use for add /remove device, firmware updates, reports, PIR sensitivity, occupancy, switch, daylighting, trim, and behavioral zones.
	Secure group after installation with luminaire powered.	

IWP Remote Menu Quick Reference

Menu Area	Use For	Common Options
Write Behaviors	Daily operating settings and Group ID	Max Brightness, Hold Time, Daylighting, Group ID, PIN Stored, Special Modes
SSAIR Commands	Group and device commands	Unprovision, Join / Accept Devices, Secure Group, Find Configurator, Identify Group, Low Trim
Utilities	Test and enablement functions	Enter Test Mode, Exit Test Mode, Enable BLE Signal, Disable BLE Signal, Occupancy Sense On, Occupancy Sensor Off

Provisioning Methods Comparison

Method	Powered	Best Use
Factory Default	Yes	Fast installation when individual operation is acceptable.
IWP IR	Yes	Field setup, settings changes, and wireless group formation.
RFID Prestage	No	Pre-stage settings or Group ID before luminaire power up.
Clairity+	Yes	Advanced configuration, group management, reporting, and firmware updates.

Quick Troubleshooting

Issue	Recommendation
Sensor not responding to IWP	Move closer, aim within range, remove the remote shock cover, and perform IR program when ambient light is reduced.
Group not operating together	Verify all sensors have the same Group ID.
Unable to secure group	Groups must be secured within 3 hours of energization. Perform a 20 second power cycle and repeat the secure procedure.
RFID write unsuccessful	Use direct contact with the sensor.

Contains FCC ID: 2ADCB-TLSSSA
Contains IC: 6715C-TLSSSA
Acuity Brands Lighting Inc.

In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the radiator shall not be less than 20cm during normal operation.

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.

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

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: (1) Reorient or relocate the receiving antenna. (2) Increase the separation between the equipment and receiver. (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. (4) Consult the dealer or an experienced radio/TV technician for help.