Smart Sensor App

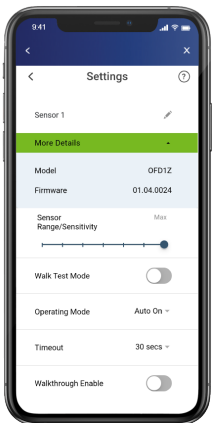
Fixture Mount Sensors are shipped ready to operate in the following default mode:

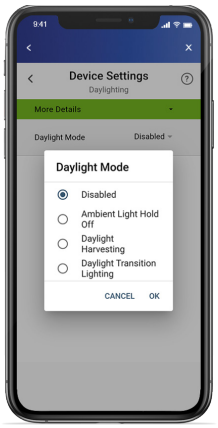
- Auto-ON
- 20-minute timeout
- Daylight Harvesting

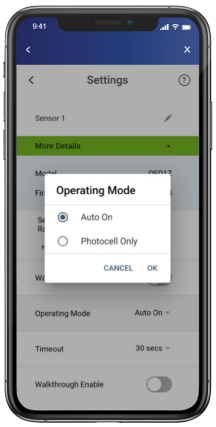
- No adjustments or app required to operate in this mode
- Sensors will automatically start daylight calibration and remain ON for 24 hours
- Sensors will be fully calibrated after 24 hours and begin operating in default modes

Smart Sensor App Overview

- Easy-to-use
- Intuitive
- Advanced occupancy and daylighting options
- Templates
- Options for grouping & scheduling
- Over-the-Air (OTA) updates allows for new features, easy updates

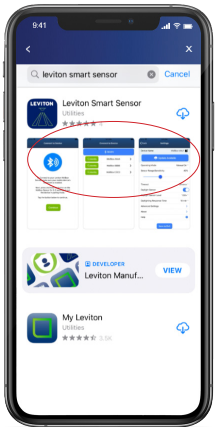


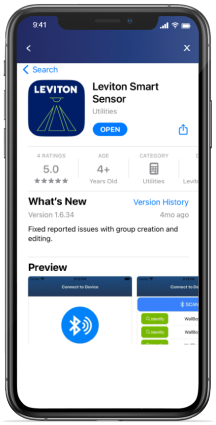




Download Smart Sensor App

- Download the Leviton Smart Sensor App from Google Play Store or Apple App Store on a phone or tablet
- Connects to sensor via Bluetooth



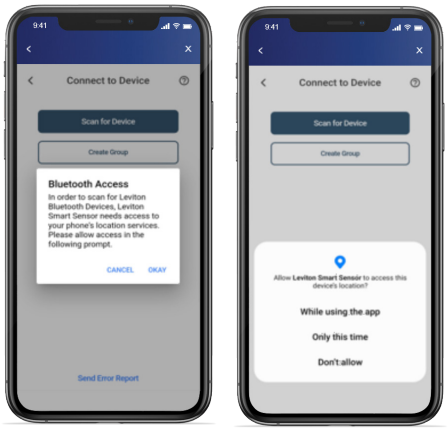


Smart Sensor App Overview

- Sensor default settings:
  - Auto-ON, 20-min timeout, Daylight Harvesting
  - No configuration needed if using these settings
- Smart Sensor App required for any changes to product configuration
  - App is used for several Smart Sensor products
- Need to select Fixture Mount Sensor
- The question mark icon (upper right corner) provides contextual help
  - Helpful hints
  - Available on each page in app
- No need to put sensors in pairing mode; always available to connect using App
- **Note:** App connects to each sensor and retrieves the settings from the sensor. Settings are stored in the sensor not in the phone.

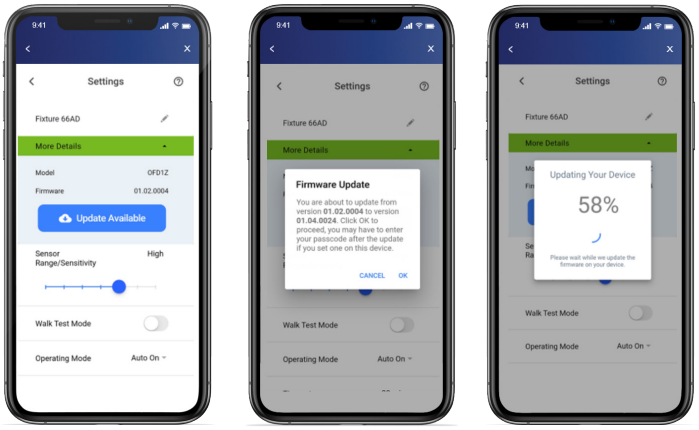
Product Configuration - Notes

- For first time connections (if prompted):
  - Click OKAY for Bluetooth Access
  - Allow Leviton Smart Sensor to access device location by click on either "While using the app" or "Only this time"



Firmware Updates

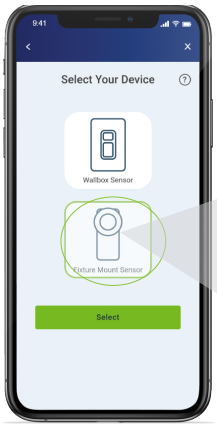
- Check "More Details" on main settings page to see current Model/ Firmware details and whether any updates are available
- Clicking "Update Available" will update sensor to latest firmware level
- Updates take 1-2 mins
- **Note:** updates not required unless needed for latest feature set



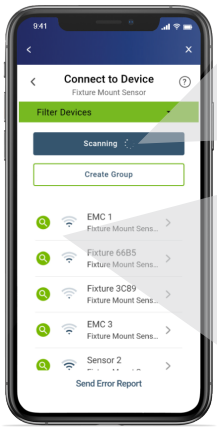
Firmware Level	Features	Notes
1.0	Initial Release	—
1.3	Grouping/ Misc Updates	Allows for grouping up to 16 sensors; misc. updates
1.4	Scheduling	For OFDUZ and ZLDUZ models only

- Most inventory currently at 1.3
- If UPDATE AVAILABLE shows, updating firmware will update to latest level (1.4)
- **Note:** Updates not required unless needed for latest feature set

Product Configuration



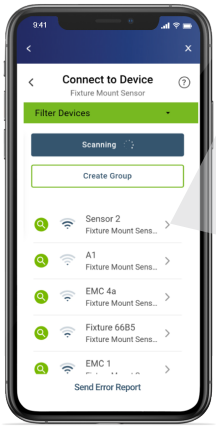
- Open Smart Sensor App
- Stand near sensor(s)
- Select Fixture Mount Sensor



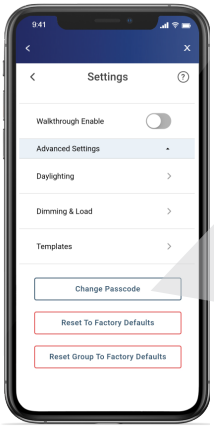
- Automatically starts scanning for available sensors
- Closest devices should show first on list
- Click Scanning to refresh list

- Before connecting to sensor, "identify" sensor to confirm connected to right device
- Identified sensor's LEDs will blink BLUE/GREEN/RED and lights will turn ON/OFF
- If right sensor/fixture, click name of sensor or ">"

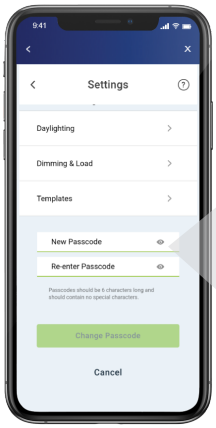
Setting Up a Passcode for a Sensor



- Click the arrow next to the sensor to connect to the sensor you would like to set up passcode for
- Scroll to the bottom of the Settings page once you have connected to the sensor settings

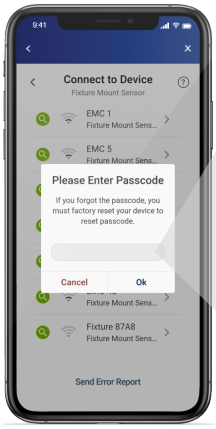


- Tap "Change Passcode"
- **Note:** You will need to tap this even if it's your first time setting up a pass code



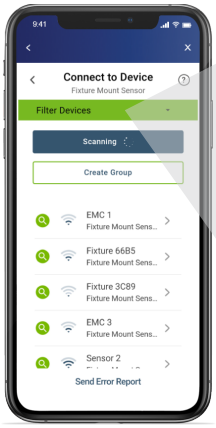
- Enter and confirm your new pass codev
- **Note:** passcodes should be six characters long and contain no special characters

Entering a Passcode for a Sensor with Passcode Protection

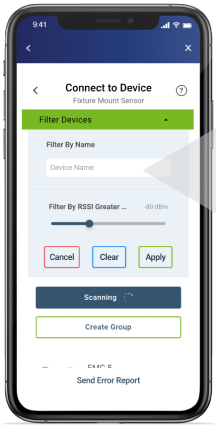


- Tap "arrow" icon next to the sensor you would like to connect to
- If a passcode has previously been set up for this sensor, you will be required to enter it
- To reset passcode, a factory reset is required (see installation guide for how to conduct a factory reset)

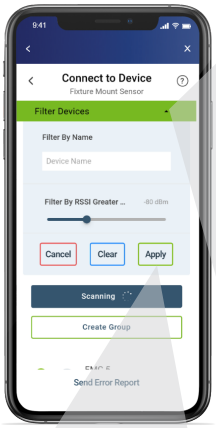
Scanning Helpful Hints



- If there are many available sensors in a space to connect to, it might be helpful to "Filter" the sensors to help you connect to the right one



- Enter sensor name to filter by name (works best if sensor name is known)



- You can also filter by RSSI (Received Signal Strength Indicator) strength
- Lowering the dBm value reduces the list of sensors and shows only those in proximity or those with the strongest BLE signal
- Move slider to the left to increase range, and to the right to decrease range
- Move slider all the way to left to see all sensors in a space (this can be helpful if you are trying to catch any sensors that have not been renamed, etc.)
- Note: Below 60dBm may not show any devices

- Click "Apply" to implement your filters

Sensor Configuration – Main Settings Page

- Adjust range/ sensitivity from Min to Max

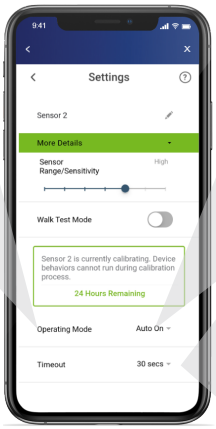
Walk-Test Mode Option
- Used to test sensor field-of-view (FOV); temporarily sets timeout to 15 sec
- After 15 mins, sensor resumes normal operation with Walk-Test Mode turned off

- Name device (optional)
- Makes it easier to identify

More Details
- Access sensor model number and firmware level
- Shows if firmware updates are available

Enable Walkthrough Mode
- Allows sensor to timeout within 2-4mins if occupancy is only detected for a short time
- If occupancy continues to be detected, turns off after programmed timeout
- Ideal for spaces that are generally used as pass-through (examples: hallways)

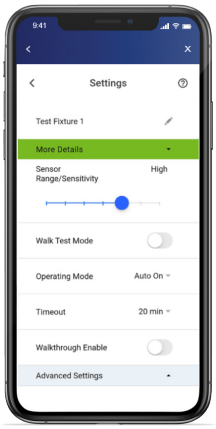
Operating Mode
- Auto-ON (Occupancy)
- Photocell Only (disables Occ sensor, for daylighting applications only)



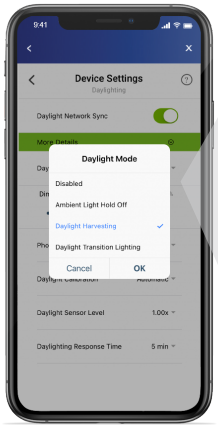
Daylight Calibration
- Once sensor is initially connected, daylight calibration will start and take 24 hours.

Timeout
- Amount of time sensor turns load OFF after space becomes vacant
- 30 seconds to 60 minutes

Sensor Configuration – Advanced Settings



Advanced Settings – Daylighting Options



Daylighting Mode options:

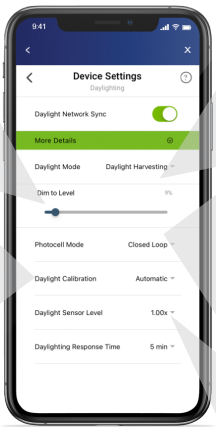
- **Disabled:** (OFF)
- **Ambient Light Hold-Off:** holds lights OFF when sufficient ambient light is present to meet the target level; this mode does not dim, just turns lights ON or OFF (ideal for switching-only fixtures)
- **Daylight Harvesting:** dims the light output in relation to natural ambient light contribution; more natural light = less artificial light (for 0-10V fixtures)
- **Daylight Transition Lighting:** reverse daylight harvesting; ideal for areas where light transitions from dark to light or light to dark; eases transition for eyes (safety). Ideal for parking garages, tunnels, etc.

Photocell Mode

- Set the Photocell mode as Open or Closed Loop base on the application* (*Closed Loop is most common)

Daylight Sensor Level

- Option to increase or decrease the amount of ambient light required for sensor to start daylighting



Dim to Level

- Set a minimum dim level while in Daylight Harvesting or Daylight Transition Lighting Modes (0-99%)

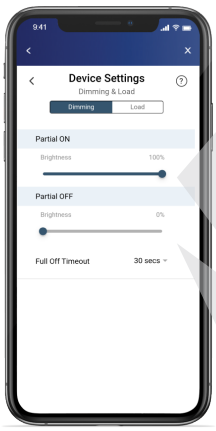
Daylighting Calibration

- **Automatic: Leviton's** AutoCal process automatically configures the daylight settings (calibration process takes 24-hrs)
- Manual: user configures the daylight target level

Daylight Response Time

- Adjust the photocell response time to changing light conditions (1min-20min)

Advanced Settings – Dimming & Load



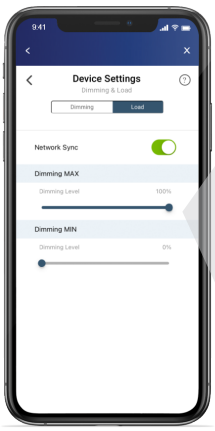
Dimming

- Partial-ON: set the target Auto ON level (1-100%; default is 100%)
- Partial-OFF: set the partial OFF level (0-99%; default is 0%)

Note: when in group, Partial-ON and Partial-OFF settings are synced to all devices

Full Off Timeout

- Set secondary timeout to turn light(s) OFF completely
- Options for 30 seconds to Always ON



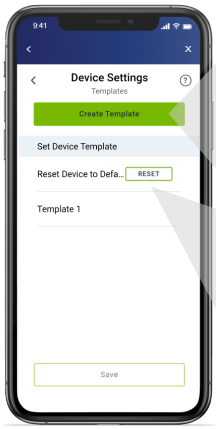
Dimming Level trims the MIN and MAX lighting levels

- MAX setting is used to reduce the maximum output of the fixture
- MIN setting is used to increase the lowest level before the fixture switches OFF

Note: when in group, trim settings are synced to all devices

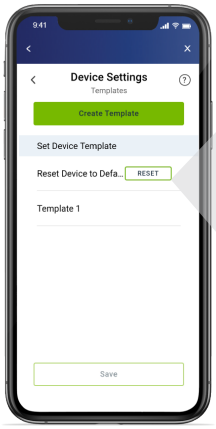
Advanced Settings – Templates

Templates allows user to save current device settings as a Template for future use. **Note:** templates are stored on the smart devices they are created on.



- To create a template, press the green Create Template button
- Name the template and select Create
- Saves all current settings to named template

- To load an existing template to an FMS sensor, select template from the list on the Templates page and press Save



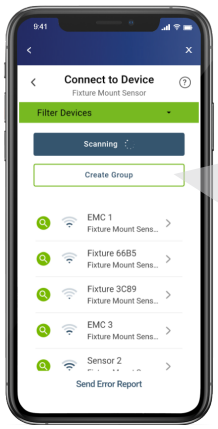
Clear Template

- To clear a device from the template currently assigned to it, press the Reset button. This will restore the device to default settings.

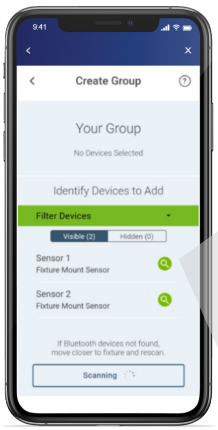
Grouping Overview

- Fixtures / Sensors to be wired and installed per installation instructions
- Up to 16 sensors can be grouped together
- Sensors are grouped together via BLE network
- Distance (end-to-end) is limited by Bluetooth signal range
- For best results:
- Determine how you want your sensors grouped (ex: per aisle or space)
- Grouping is done from the initial scan page
- Select a sensor in middle of group as the “provisioner”, and add other sensors to the group from this sensor

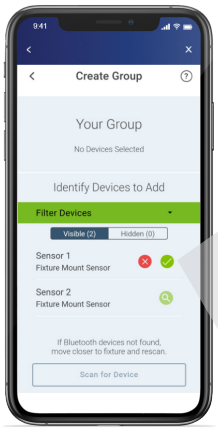
Creating a Group



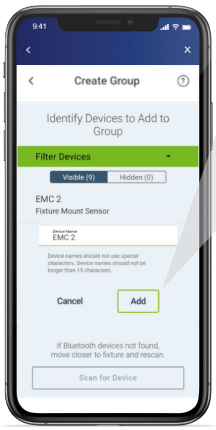
- Select Create Group



- Select the magnifying glass of sensor to be added to group **Note:** start from Sensor in middle of group

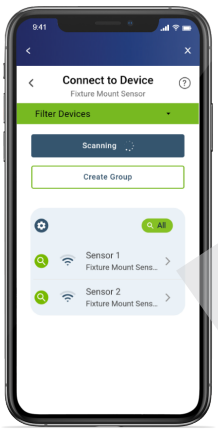


- Select the check mark to confirm sensor to be added



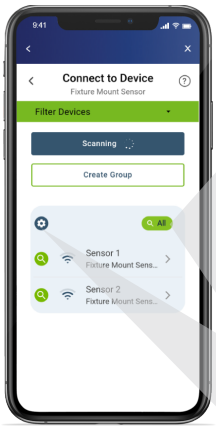
- Scroll down and select “Add”
- **Note:** Sensor can be renamed if desired

- Repeat the Creating a Group process for each sensor to be added to group
- **Note:** up to 16 sensors can be added to a group

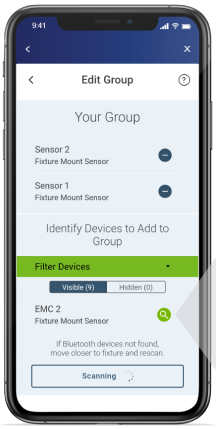


- Grouped sensors will now appear in a light gray rectangle

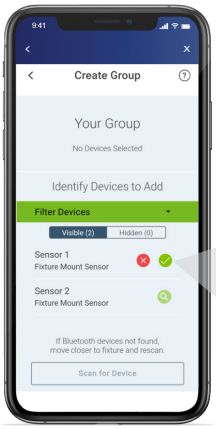
Adding Additional Sensors to a Pre-Existing Group



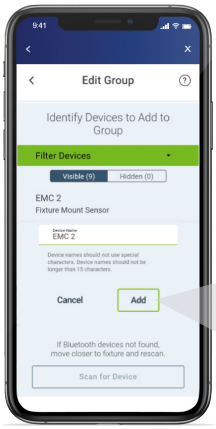
- Tip: Select the All icon to identify all sensors in a Group; RGB LED and fixture lights will blink ON/OFF for all sensors in the group
- Select the Gear icon on group to add the sensor



- Select Magnifying Glass icon of the sensor you would like to add; the light with attached senor will blink to indicate the sensor has been selected

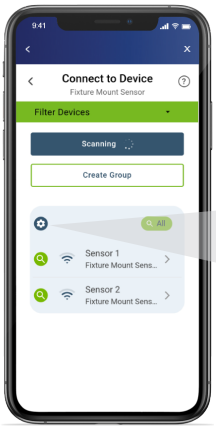


- Select the Check icon confirm sensor

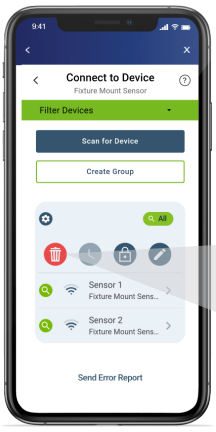


- Select Add

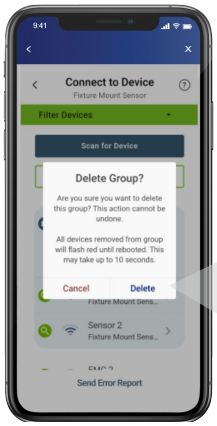
Removing a Group



- Select the Gear Icon



- Select the Trash Can Icon



- Select Delete

Scheduling Overview

- Scheduling allows sensors to behave differently based on the time of day or day of the week to maximize energy savings
  - Ability to change light level, operating mode, timeout, partial-ON & OFF, and daylight mode
- Scheduling can be done individually or shared across a group
- Only universal voltage models (ZLDUZ and OFDUZ) have the scheduling feature
- Groups of mixed product including the non-universal voltage models (ZLD1Z and OFD1Z) can support scheduling if included with groups of ZLDUZ/OFDUZs
- **Note:** must be connected to the ZLDUZ/OFDUZ via the Smart Sensor App to initiate the schedule feature

Creating Schedules and Behaviors for a Group of Sensors

- Schedules and Behaviors allow you to program certain lighting control behaviors to take effect during the schedules you choose

Operating mode options:

- Auto ON: Sensor automatically turns light ON with Occupancy, default is 100%; level can be adjusted
- Auto OFF: Sensor automatically turns light Lights turn off and OFF with Vacancy, default is 0%; level can be adjusted
- Photocell Only: Disables the occupancy sensor and lights ON and OFF and/or dims them UP or DOWN based on ambient lighting conditions only
- Level: Devices will be held at the specified brightness level for the duration of the schedule running this behavior

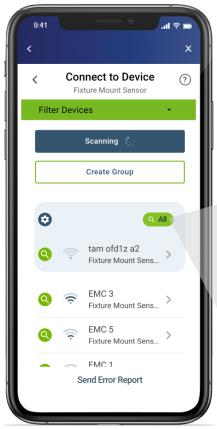
Timeout:

- Turns lights off to desired Auto Off level at desired time between 20 seconds and 60 minutes
- Not available in photocell only mode

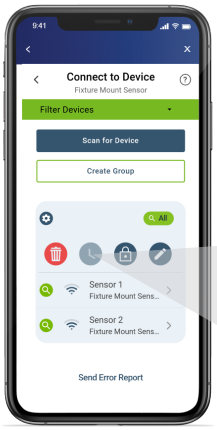
Full Off Timeout:

- Secondary Timeout feature; turn light off fully at desired time between 20 seconds and 60 minutes

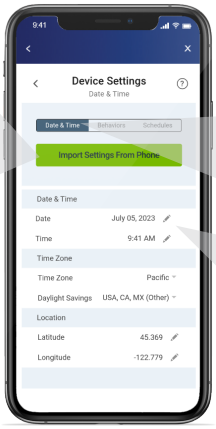
Creating Schedules and Behaviors for a Group of Sensors



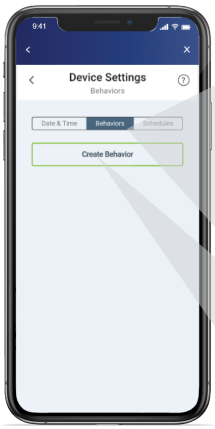
- Select Magnifying Glass icon on Sensor or Group of sensors you'd like to create a schedule for



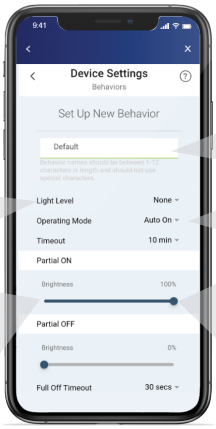
- Select the Clock Icon



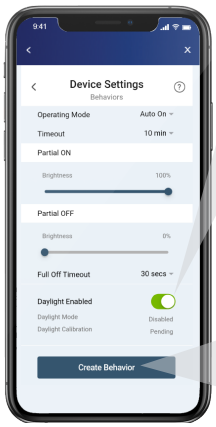
- Easily import Time settings from your phone
- Adjust date and time settings
- Manually adjust settings



- Select the Behaviors Tab to create behaviors for the schedule you would like to set
- Select Create Behavior

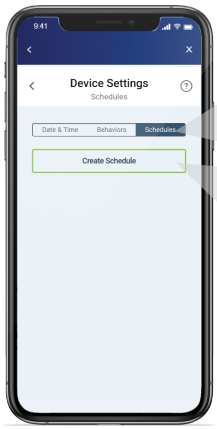


- Set light level for behavior
- Define brightness level for Partial OFF setting, if activated
- Enter new behavior name
- Select Operating Mode
- Define brightness level for Partial ON setting, if activated

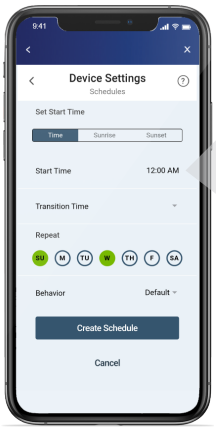


- Scroll screen to toggle on Daylight Enabled if desired
- Select Create Behavior

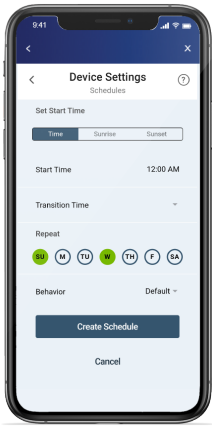
Creating Schedules and Behaviors for a Group of Sensors



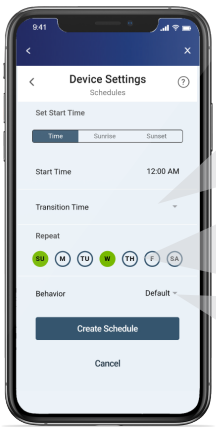
- Select Schedules Tab
- Select Create Schedule



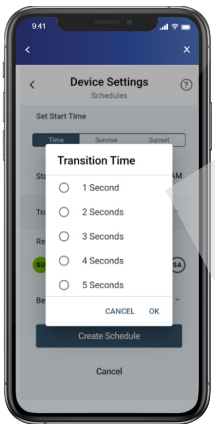
- **Select Start Time:** Choose between setting a manual time, or schedule to start before or after sunrise or sunset



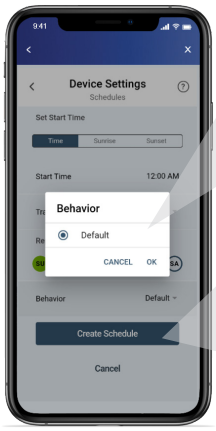
- **Note:** A schedule can be set to begin at a certain time, or to begin 120 minutes before or after sunrise or sunset.
- Select the Sunrise or Sunset tab to go through the same process of creating a schedule. Except for starting before or after sunset rather than at a specific time



- Select Transition Time
- Select days to repeat schedule
- Select Behavior



- Transition Time sets how long the behavior gradually transitions from the previous state. Select OK.



- Select previously created Behavior to apply to schedule. Select OK.
- Select Create Schedule when satisfied with the settings

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