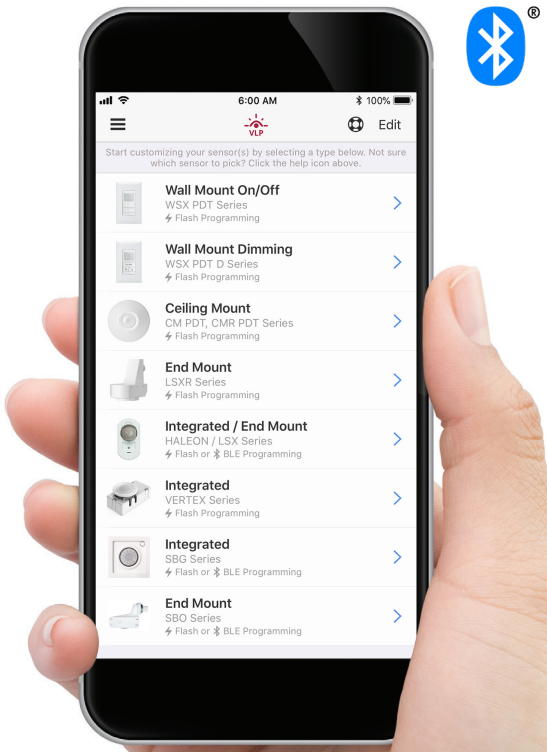
sensorswitch

SensorSwitch™ Mobile App
Bluetooth® Functionality User Guide

The SensorSwitch™ mobile app gives users the ability to configure settings using Bluetooth® wireless technology, eliminating the need to use a lift or ladder.

Set occupancy time delay, trim values, photocontrol options and more on VLP-enabled occupancy sensors, photocontrols and luminaire-embedded sensors from the ground with this visually intuitive tool. Sensor customization has never been easier.



VLP

Download the App

SensorSwitch™ VLP Mobile App

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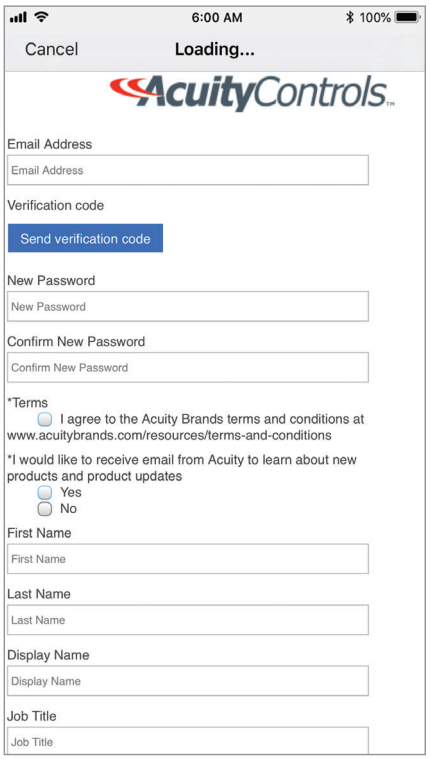
1. VLP App Sign-Up

The SensorSwitch™ VLP app is available as a free download for Apple® iOS and Google® Android™ operating systems. For a list of all compatible smartphone devices reference the app release notes.

When the app is initially launched, the user will be directed to create a user account that is verified by email address.

The user will remain logged in when opening the app, unless they choose to sign out or update to the latest version of the app.

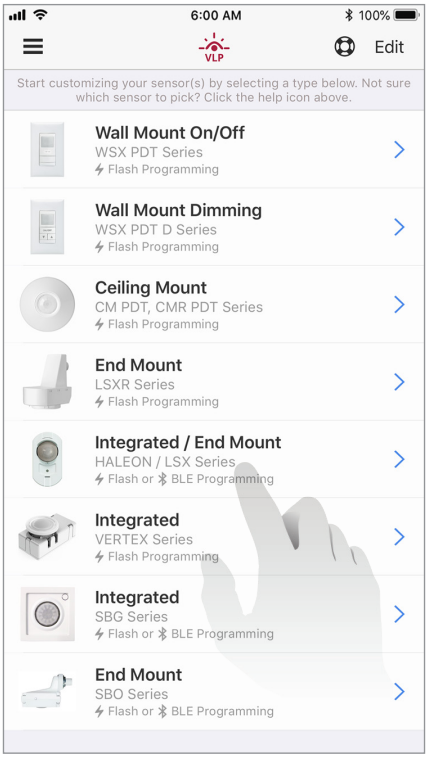
Remember to set the PIN within 45 minutes of your first power cycle or any subsequent power cycle.

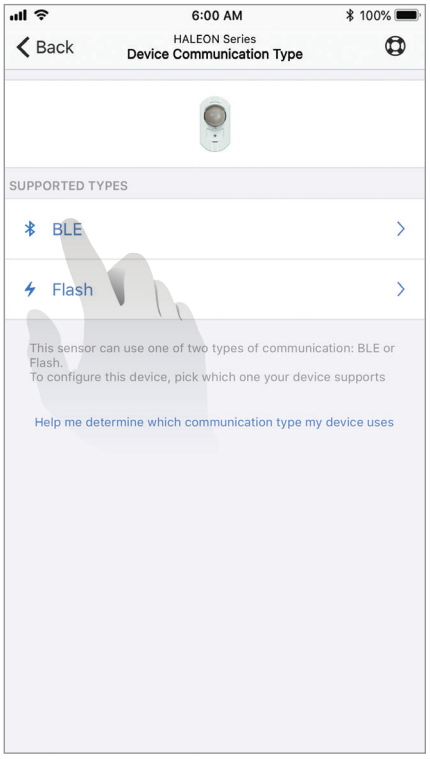


2. Select a BLE enabled sensor from the Sensor Selection Screen

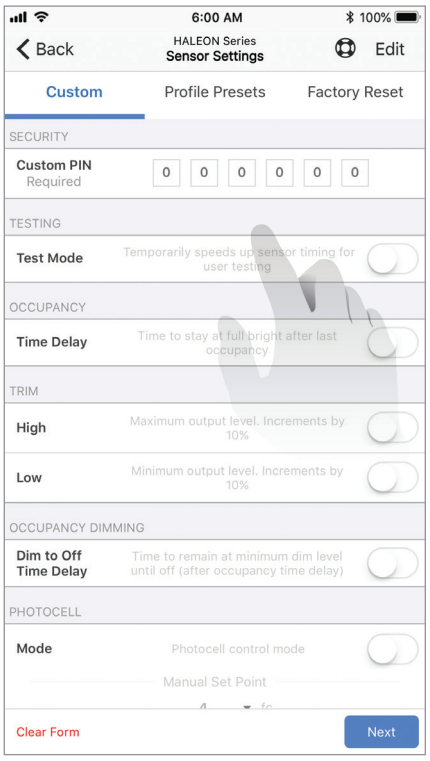
Select the desired sensor on the app screen listing the available sensors that are compatible with the VLP app.

Next, select the **BLE** programming method.





3. Security



The first time a command is sent to the sensor, a 6-digit security PIN code must be established.

Select a 6-digit security PIN by entering a numeric (0-9) sequence in the Security section at the top of the screen.

This 6-digit code will remain populated on the programming screen until changed by the user. The PIN is set at the sensor with the first transmission of programming – setting the PIN code may be transmitted by itself or with other programming commands.

Once set, the 6-digit security PIN must accompany every programming transmission to that sensor.

Tip – It is recommended to use one 6-digit security PIN per site for ease of scalable sensor programming.

Resetting 6-Digit Security PIN Code

By intentionally disconnecting power from the circuit for a minimum of 15 seconds, all sensors on that circuit will go into an 'unlock' mode for 45 minutes.

During this time, a new 6-digit security PIN may be designated and transmitted to the sensors.

If no security PIN is sent to the sensor during the `unlock' period following intentional power interruption, the sensor resumes a locked state under previous security PIN.

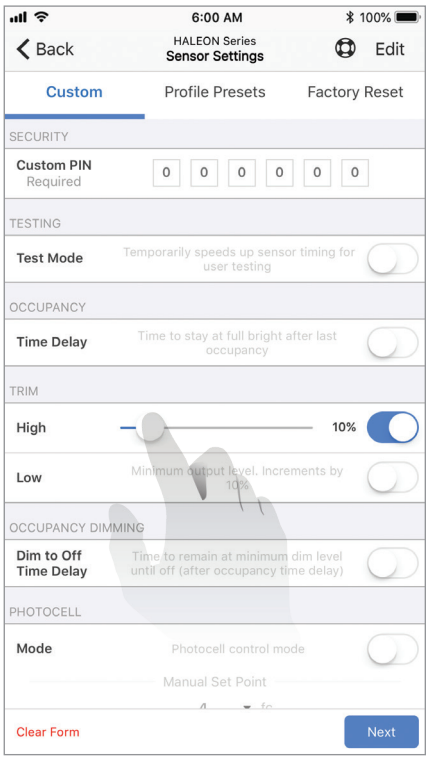
4. Selecting Programming Functions

The VLP app makes it easy to select and set multiple sensor settings at the same time!

Enable the functions you would like to modify by activating their switch to 'green'. The ability to modify those corresponding settings will then populate on the screen.

Once all of the settings have been chosen, select 'Next' at the bottom of the screen.

Tip – For convenience, the order in which the programming functions are displayed on the screen can be modified in the app. Select the 'Edit' button at the top right of the programming screen and it will give the option to move the functions higher or lower in the viewing list.

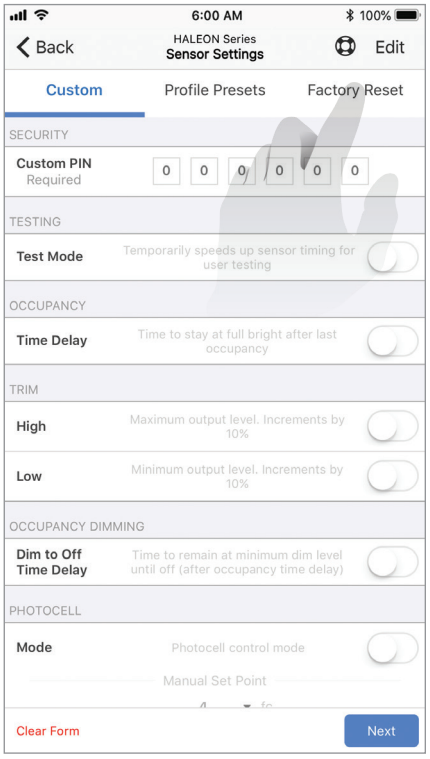


Restoring Factory Defaults

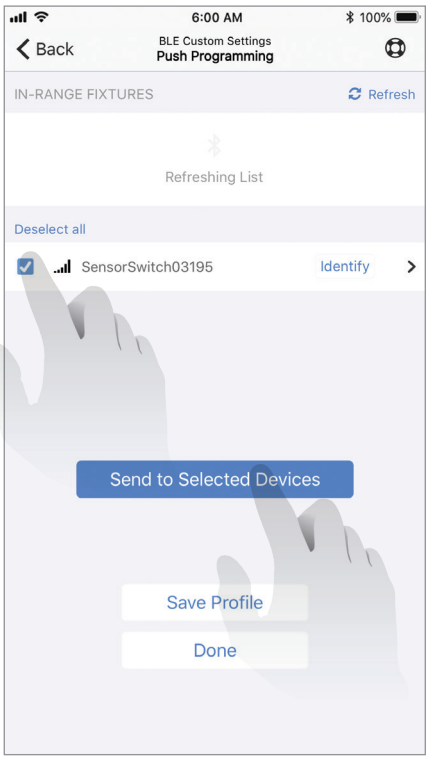
All BLE enabled sensors may be programmed back to their factory default settings.

Default settings are those that came enabled on the sensor when originally ordered.

Note: Refer to end of User Manual for matrix of Factory Defaults.



5. Selecting Sensors To Program



Now that all of the programming functions have been selected, it is time to select which sensors will receive the transmission.

The app will immediately start 'looking' for sensors to program, and each sensor within Bluetooth® range will populate on the screen as SensorSwitchxxxxx. The expected range for transmissions is a minimum of 100 feet.

Identifying Sensors

To determine which sensor corresponds to a specific line on the app, select the corresponding **Identify** button, and the sensor will signal the fixture to cycle on and off. The fixture will continue to cycle until the **Identify** button is selected again or a programming transmission is sent to that sensor from the app.

Naming Sensors

Unique names may be assigned to each sensor in the app. As sensors populate on the screen, select the '>' arrow to the right of the **Identify** button to change SensorSwitchxxxx to a name of your choice, then press **Done**.

The unique sensor name will now populate whenever that sensor is detected within Bluetooth® range. Unique names are specific to your user account.

For each sensor that needs to receive the programming transmission, check the box to the left of each of the corresponding sensors that are in Bluetooth® range on the screen. Each selected sensor will receive the same programming commands.

Tip – The **Select All** option makes it quick and easy to specify all sensors within Bluetooth® range for transmission of programming.

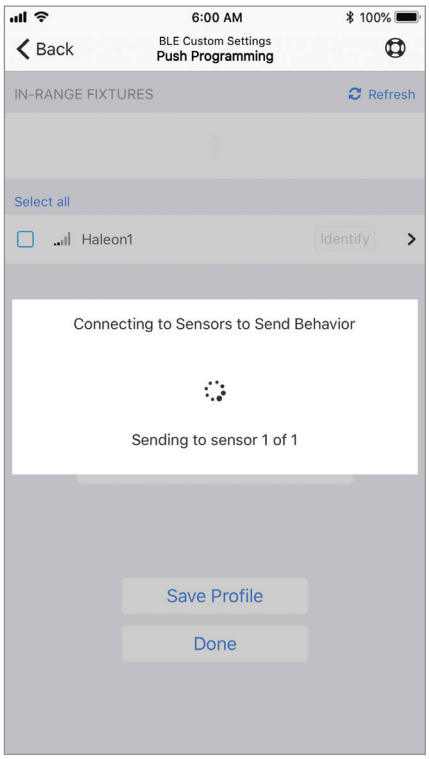
6. Transmitting To Sensors

Once all sensors have been selected, click **Send to Selected Devices** to begin transmission. The transmission status to each sensor will be displayed on the screen.

In addition to an icon confirmation from the app, there is a visual completion acknowledgement from the corresponding fixture.

The associated lighting load will cycle as follows:

- **Single On/Off Cycle = Transmission Successful**
- **Double On/Off Cycle = Transmission Unsuccessful**



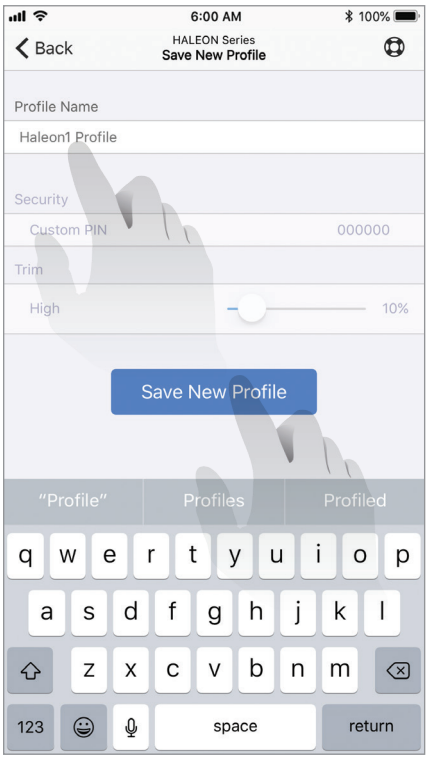
7. Saving Profiles

Once at least one setting has been selected, a 'Profile' may be created to store both the settings and PIN code for future use.

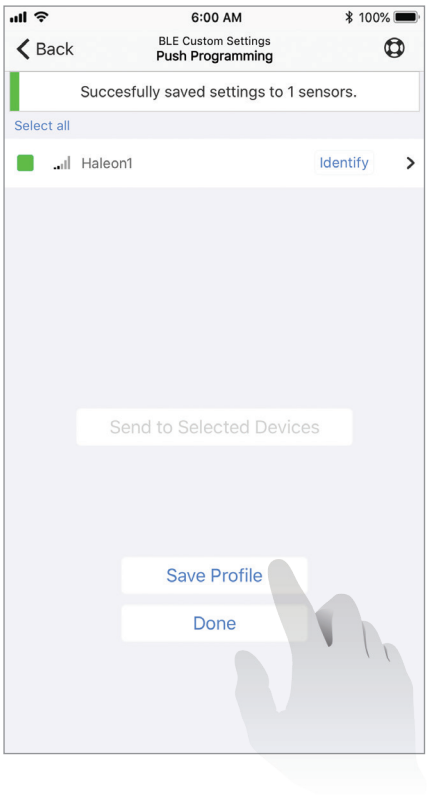
The user may create alpha-numeric names for each profile, and there is no limit to the number of profiles that can be associated with an individual user account. Addition or deletion of profiles does not need to be preceded by a command transmission to sensors.

Saved profiles may be accessed from the **Sensor Settings** screen by selecting **Profile Presets**.

Once stored, the settings and PIN code within a profile may not be changed. If changes are required, they would need to be saved within a new profile.



8. Function Definitions and Options



Test Mode: Temporarily speeds up occupancy timing for user testing

- Option Values: Enable/Disable

Occupancy Time Delay: Length of time lights are at full output or high trim level after occupancy last detected

- Option Values: 30 seconds – 30 minutes

Trim Setting:

- High Trim: Maximum output level
  Option Values: 10%-100%
- Low Trim: Minimum output level
  Option Values: 10%-100%

Dim to Off Time Delay: Time to remain at low trim output level until turning off (after occupancy time delay)

- Option Values: 0 seconds – 20 minutes, Stays Dim (Never Off)

Photocell Mode: Engages daylight harvesting functionality

- Manual Set Point: Manually set the foot-candle level to be maintained at the sensor.
  Option Values: 0.1 – 150 fc
- Auto Set Point: Sensor will automatically calibrate the foot-candle level to be maintained based on light levels readings of the space.
  Option Values: Enable/Disable

Notes

1. The smartphone device used for programming must be equipped with Bluetooth® version 4.2 or later.
2. Depending on your operating system and Bluetooth® signal strength, programming and 'Identify' transmissions may take up to 12 seconds per sensor.
3. Default sensor settings for out-of-the-box operation are:

Factory Defaults

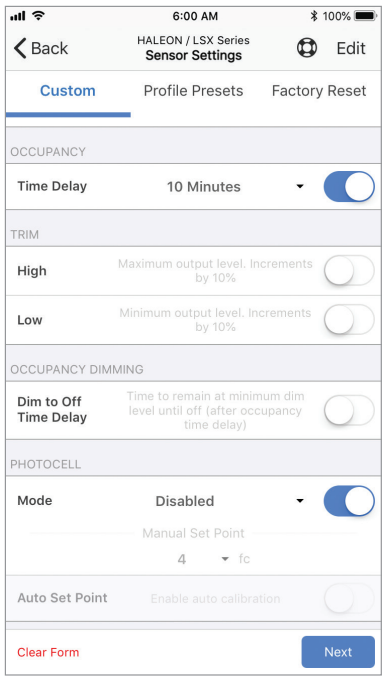
Sensor Options	OCC	HL	ADC	ANL
Default Operation	On/Off Occupancy Only	Occupancy w/ 0-10V Dimming (High/Low/ Off)	Occupancy w/ Dim & Switch Photocell	Dim & Switch Photocell with High/Low Occupancy Operation
Occupancy Time Delay	10 minutes	10 minutes	10 minutes	10 minutes
Photocell Mode	Disabled	Disabled	On/Off/ Dim	On/Off/ Dim
Photocell Set-point	Disabled	Disabled	50 fc	50 fc
Low Trim	Disabled	10%	10%	10%
High Trim	Disabled	100%	100%	100%
Dim to Off Time Delay	Disabled	2.5 minutes	0 seconds	Stay Dim/ Never Off

Note: Lens detection designated in place of 'xxx'– 360 (high mount) or ASL (high-mount aisleway)

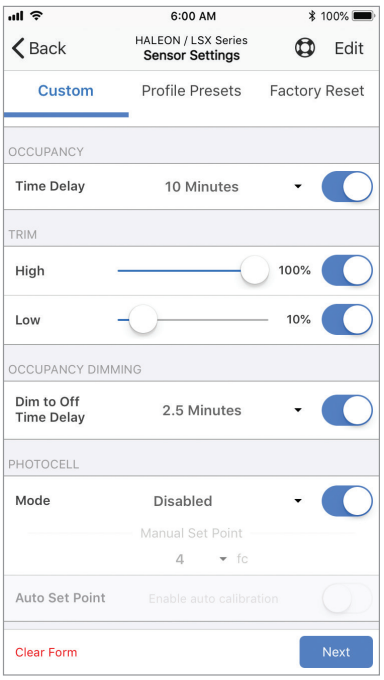
2023 Update

BTP series of devices shipped after January 1, 2023 now have the capability to change PIR occupancy detection level. In this case, indoor low allows for higher mounting height and is the most sensitive level. Outdoor (default) is the less sensitive level. Users can now adjust settings based on their applications.

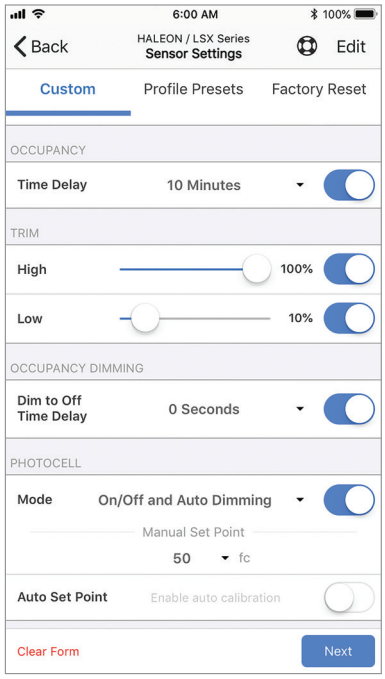
OCC



HL



ADC



ANL