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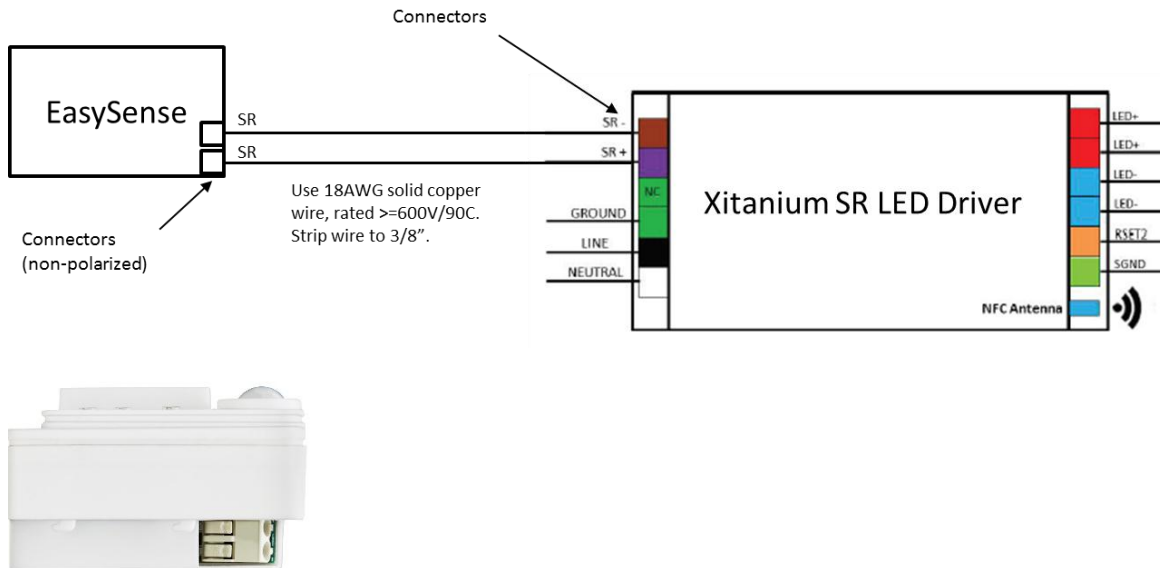
EasySense Quick Guide

Wiring diagram

LED indicator

The product contains two indicator LEDs for compliance with California Title 20 requirements. The LED indicator by default is enabled, and it can be disabled through the phone App. The behavior of the LED is as listed below:

Yellow LED on: = Vacancy & Sensor is functional
Red LED on: = Motion is detected and hold time is not expired yet

Sensor Functionality

The device controls the light output based on the occupancy, day light regulation and field task level.

1. Daylight based control

Daylight based control is enabled by default. The light sensor is auto calibrated every time the sensor is switched on, meaning when the driver mains is switched on. The min dim level is set by **Background Light Level.** E.g. if Background Light Level is set to be 20%, during daylight harvesting, the light will only dim down to 20%.

2. Occupancy based control:

Upon detection of occupancy, lighting system is switched on in a number of steps, summarized as the Switch On Sequence. Similarly, upon detection of vacancy, the lights are switched off in a Switch Off sequence. Both sequences are described in the next sub-requirements.
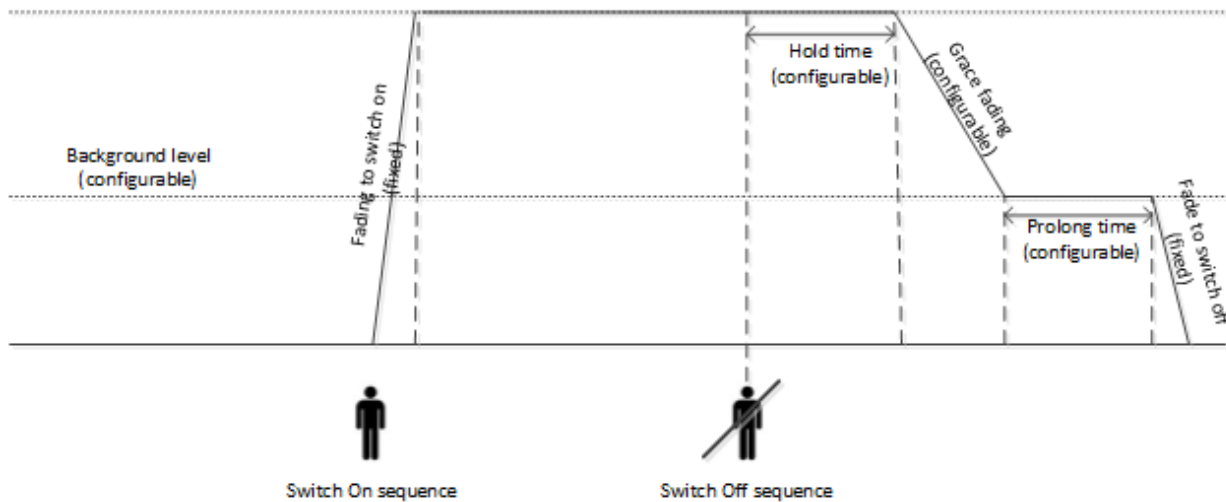
If occupancy is detected, lights are dimmed up to the Switch On Light Level in 0,7 second. This is not configurable by the user. Switch On Light Level is a predefined output level that will be activated when occupancy is detected. The Switch On Light level is not configurable and is set to 100%.

When occupancy is not detected anymore, following lighting Switch Off Sequence is executed as shown in the diagram above. When no more occupancy is detected, the device will wait until the hold time is expired before going to the **Background Light Level.** After **Hold Time** is expired, the light is faded to Background level in the time set by the configurable parameter **Grace Fading**. The light level is kept on the background level for amount of time - **Prolong Time**. After prolong time is expired, the light is faded from the Background level to off. The **Fade Time** is a fixed value of 0.7 seconds.

3. Task Tuning
Field Task Tuning is a feature to reduce the maximum output of fixture to a certain percentage of the AOC current of the driver. Task light level can be adjusted into a value between 5% and 100% of the max setting through App based on occupant task requirement.
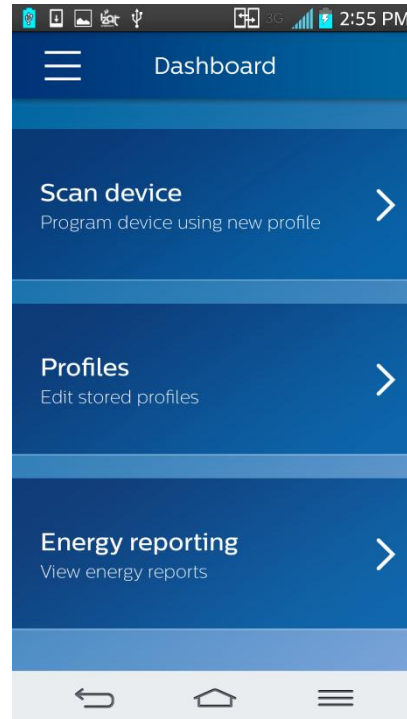
Configuration

The sensor can be configured through App using NFC technology. In summary, features can be configured are Occupancy based control (Enable/ Disable, Hold time, Prolong time, Background light level, Grace fading), Daylight based light control (Enable/ Disable), LED indicator (Enable/ Disable) and Task Tuning. The configuration range for each parameter are listed in the EasySense datasheet.
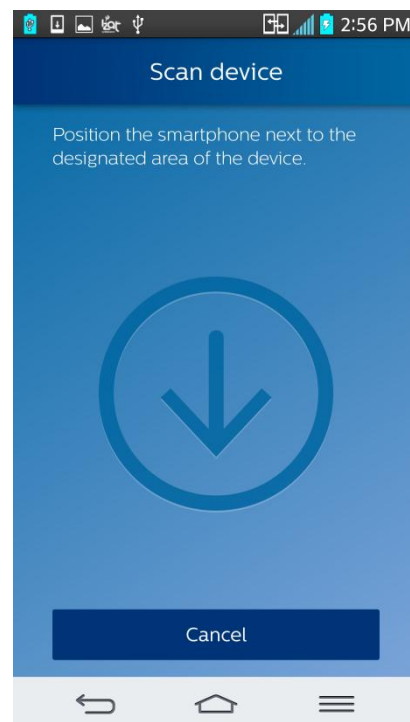
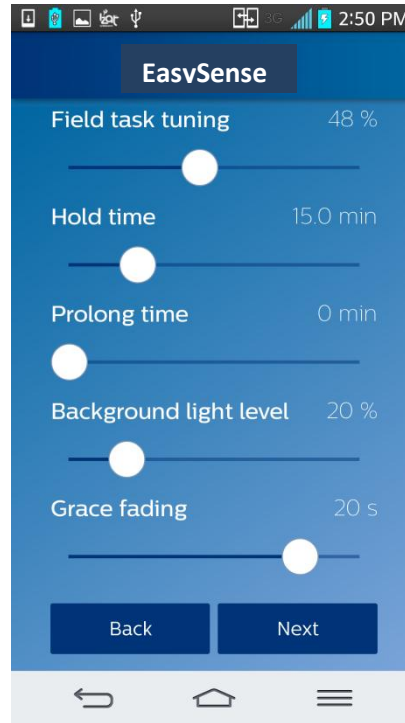Configuration steps:

1. Select Scan device:

2. Place the back of the smartphone onto the sensor face
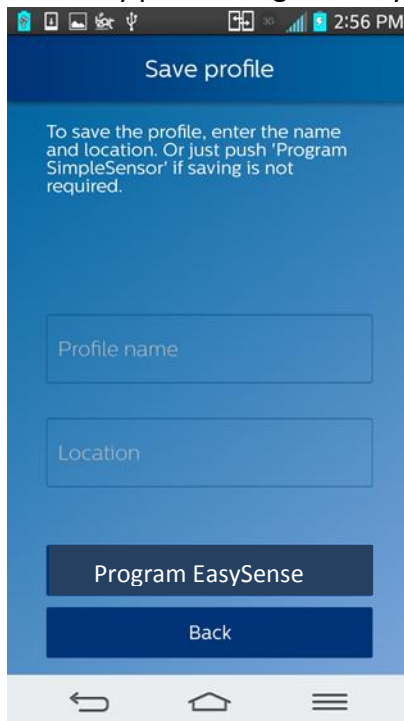
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3. After hearing a beep, following screen shall show up to configure parameters. After configuration, please press "Next".

4. The App also provides an option to save this profile for future use by entering Profile name and Location. This profile will be saved. You can skip entering this information and program the EasySense sensor by press "Program EasySense".

5. Repeat step 2.

6. After programming successfully, a green arrow shows up on the screen. More EasySense sensor can be programmed with the same setting by press "Program EasySense". Or press "Done" to finish configuration.

7. Once a sensor is programed, its profile is automatically saved for future use. One can go to Profile from the main menu and select desired profile and program sensors.

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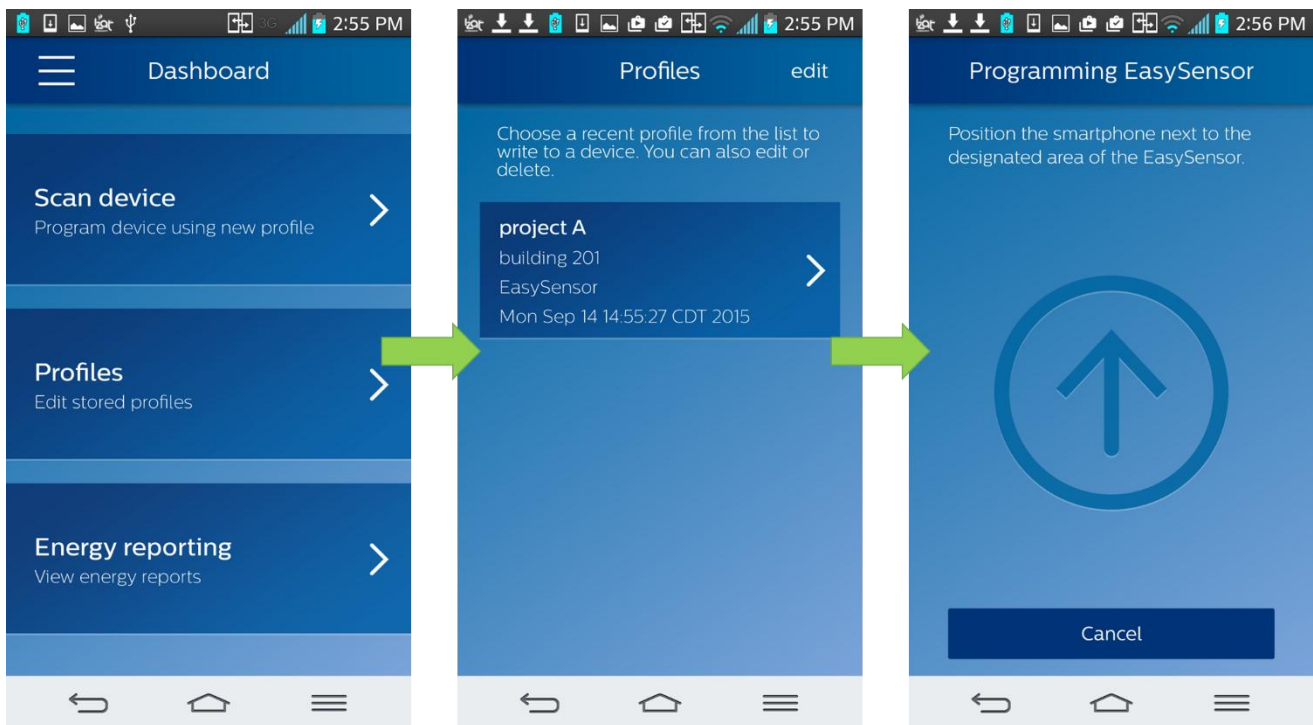
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