Keilton +autani



CS107D Series

Line Voltage Dual-Tech Ceiling Sensor

User Guide

2026

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Product Introduction

CS107D Series - Line Voltage Dual-Tech Ceiling Sensor



CS107D.B1/B2



CS107D.D1/D2

The CS107D is a line-voltage dual-tech occupancy sensor that combines PIR and ultrasonic technologies to provide high accuracy and wide coverage. It also features integrated daylight harvesting.

Commissioning via the Keilton+autani App allows the sensor to turn a load on and hold it on if either or both technologies detect movement. The CS107D works seamlessly together with other wireless devices in the Keilton+autani system.

Main features of CS107D include:

Common Features (All Models):

- 120-277 V AC input
- Daylight Harvesting
- Dual-tech PIR + Ultrasonic technology provides high accuracy and wide coverage
- Wireless Bluetooth® connection to other Keilton+autani devices
- Room coverage (at 10ft mounting):
  CS107D.B1/.B2: 1,300 sq ft;
  CS107D.D1/.D2: 1,700 sq ft

CS107D.B1 and CS107D.D1 Only:

- Dual-channel dimming for color tuning (CCT)

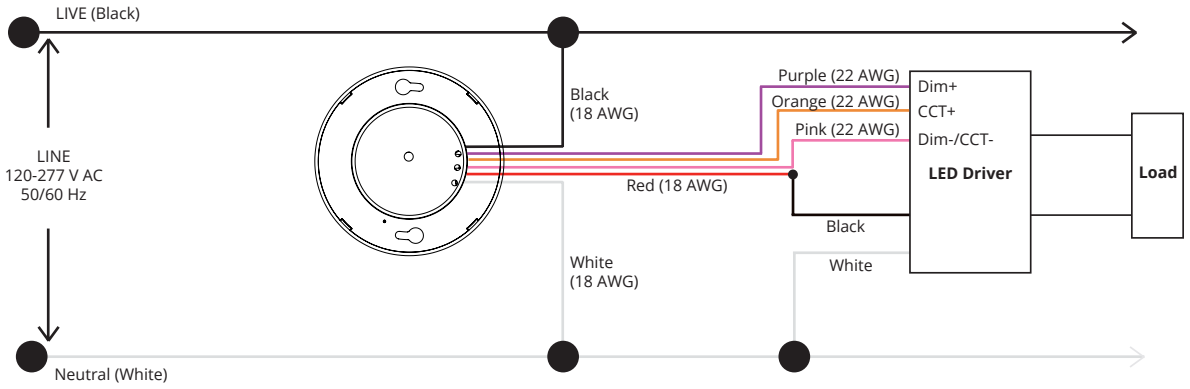
CS107D.B2 and CS107D.D2 Only:

- Single-channel dimming

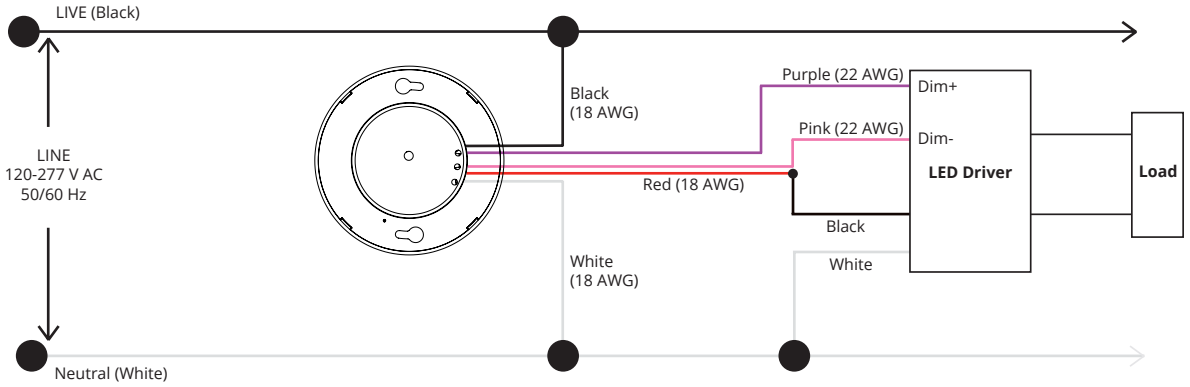
Product Introduction

Wiring

CS107D.B1/D1



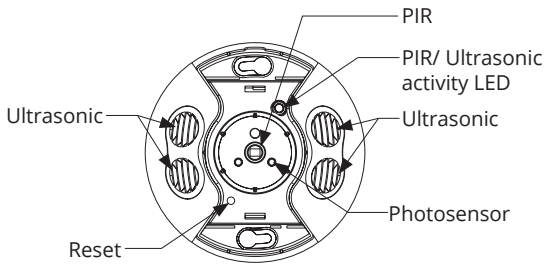
CS107D.B2/D2



Reset Button and Indicator

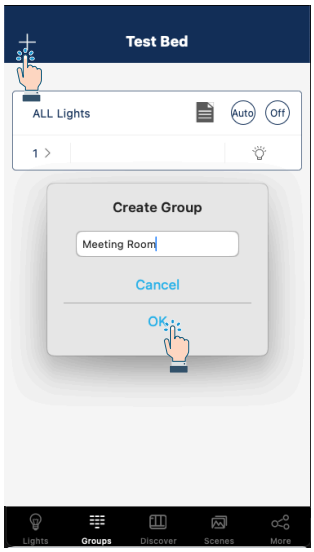
LED Indicator:
The indicator flashes in two colors, blue and green.
Blue: Receives a wireless packet/triggered by PIR
Green: Triggered by ultra sonic

Reset Button:
Remove the face plate and you may find the reset button. Press the reset button for 3 seconds to reset the CS107D to factory setting. The indicator will flash blue quickly and you may pair it with app within 30 seconds.

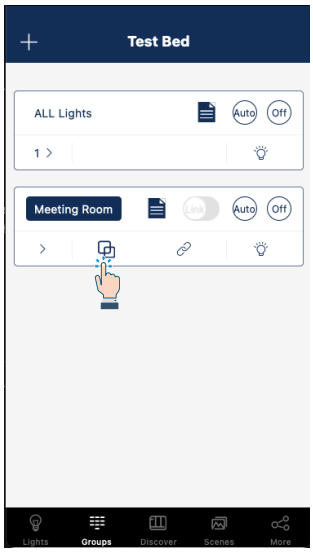


Create and Add the Light to the Group

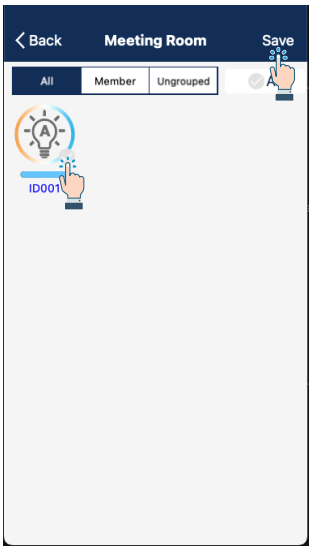
Switch / Group Association



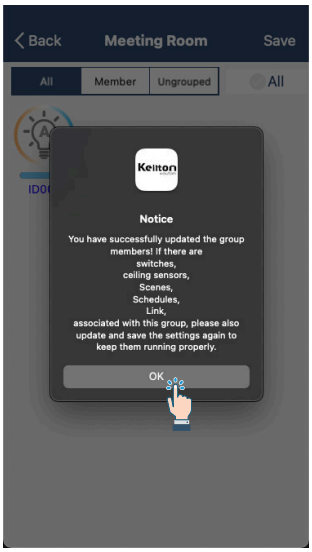
1. Select the '**+**' button to create a new Group. Type the group name and select '**OK**'.



2. Select the Member symbol to list the lights in Group.



3. Select which lights you want to add or remove. Select '**Save**' to confirm changes.



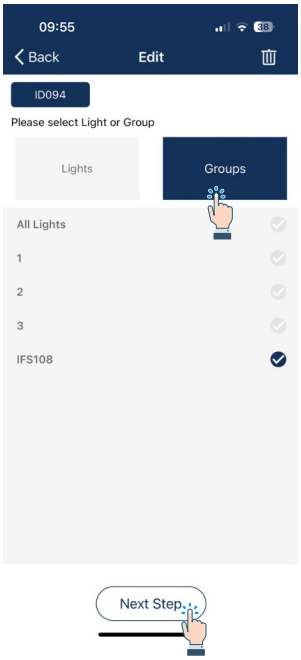
4. Select '**OK**' to confirm.



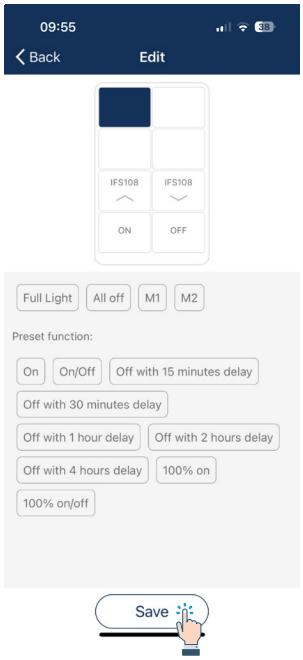
5. Select '**Discover**', then select '**Switches**'.



6. Select the Settings button in the upper right corner.

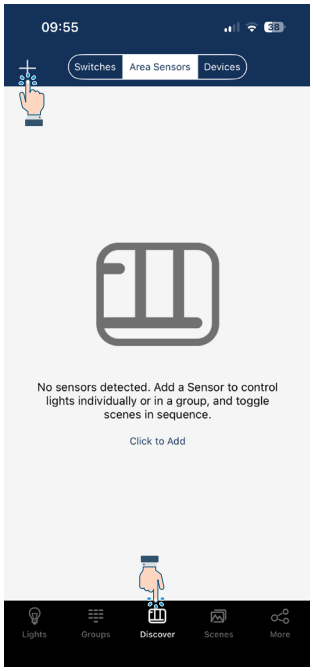


7. Select '**Groups**', then select '**Next Step**'.

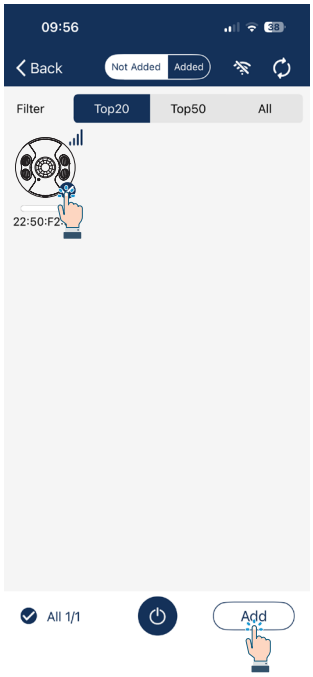


8. Select '**Save**'.

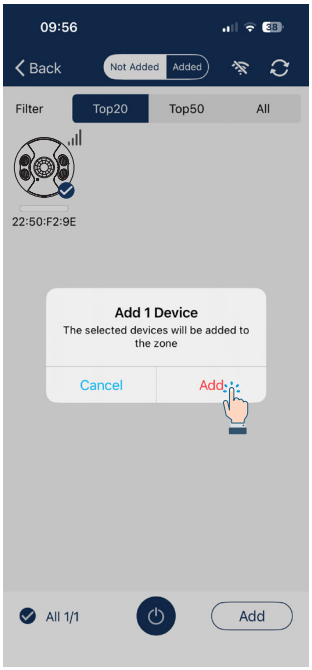
Add CS107D to Keilton+autani App

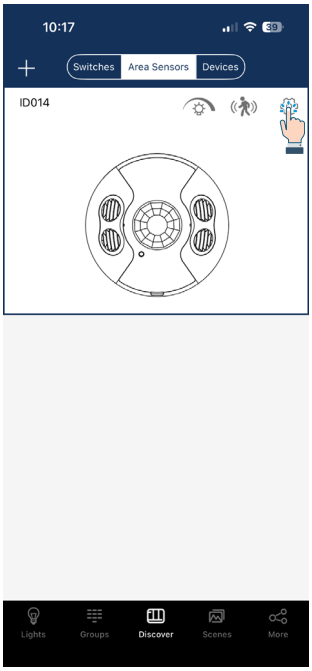


1. CS107D works as an Area sensor in Keilton+autani App. Go to '**Discover**' page on Keilton+autani App and select Area sensors, select the '**+**' button to start adding the CS107D sensor.



2. Select '**Add**' to confirm adding. Please reset the CS107D to factory setting if it failed to show up.

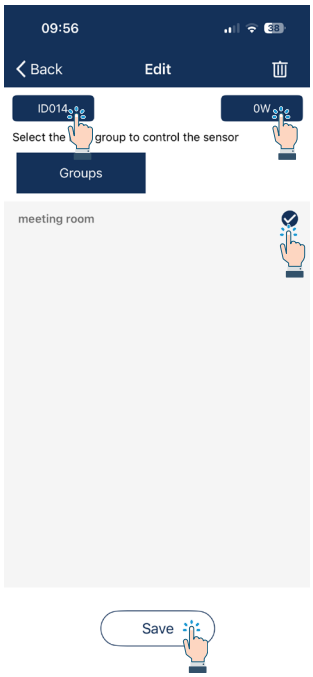




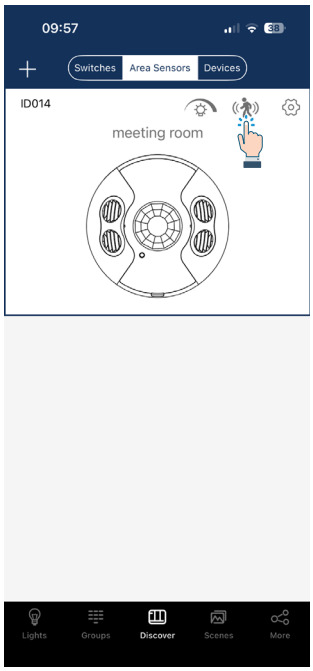
3. Select the configuration button on the top right corner of the sensor to bring out the configuration page.

CS107D Configuration

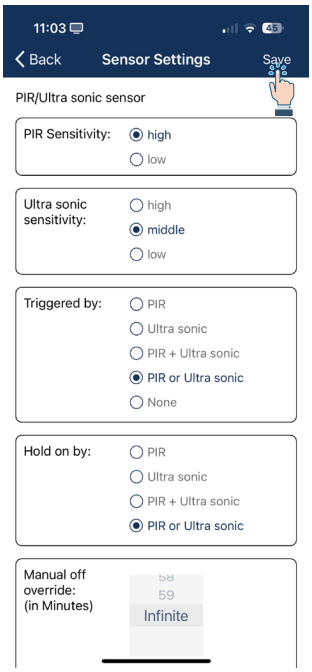
Adjust Sensor Settings



1. You may re-name the sensor, input the rated wattage for relay output load, and associate the sensor to a light group.



2. Then select the sensor setting button.
'**A**' means the CS107D is in auto mode, it can be triggered after the lights turn off automatically.



3. You may set the sensitivity of PIR and Ultra sonic sensor, how motion should be triggered and held and the hold time. Select '**Save**' to save the settings

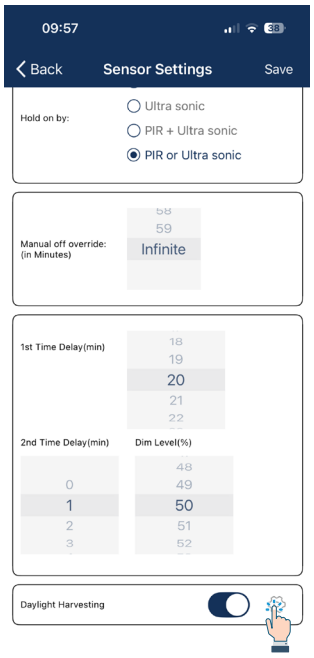
Triggered by and hold on by options:

- **PIR**: only motion detected by PIR is effective.
- **Ultra sonic**: only motion detected by ultra sonic is effective.
- **PIR + Ultra sonic**: only motion detected by both PIR and ultra sonic is effective.
- **PIR or Ultra sonic**: motion detected either by PIR or ultra sonic is effective.
- **None**: similar to vacancy mode, motion won't trigger any action.

Manual off override: When light is turned OFF manually, by either App, switch or schedule, it remains OFF and won't be triggered by motion during the 'Manual off override' period. If motion is detected during this period, it will restart the time counter.

CS107D Configuration

Daylight Harvesting



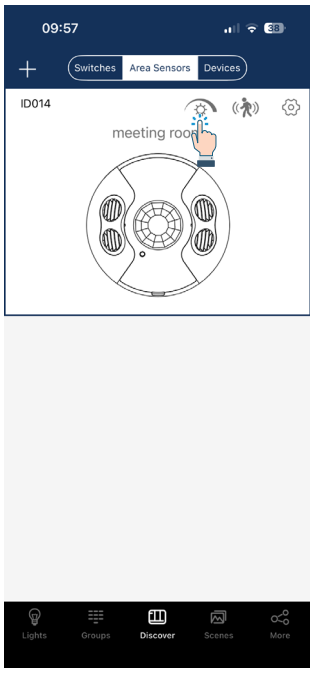
1. You may enable/ disable Daylight harvesting and set the Daylight harvesting parameters.



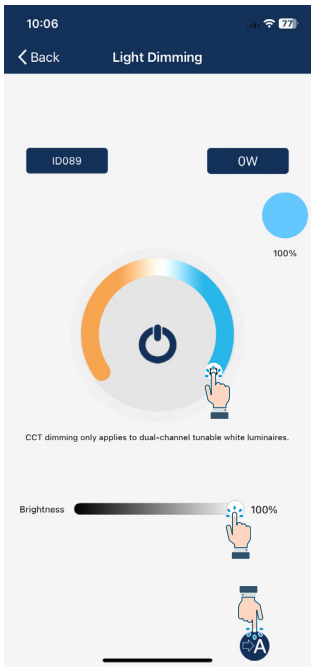
2. There are three pre-defined strategies: **Soft**, **Mild** and **Aggressive**. Select the one that best fits the application, or select '**Custom**' to fine-tune the parameters. Select '**Send**' to save the settings.

CS107D Configuration

Adjust Light Dimming Settings



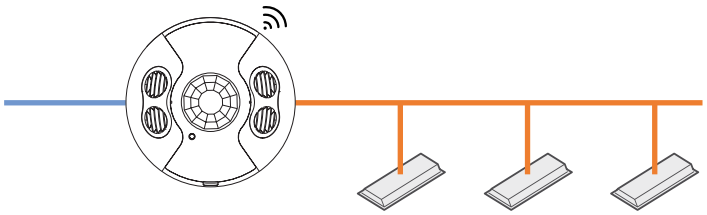
1. Select the dimming button to bring out Light Dimming settings page.



2. Set to the desired dimming and tuning levels and Select the '**A**' to save the current ambient brightness.

Typical Applications

Relay Configuration



CS107D

Legend:

Power supply

Relay Output

Non-KPA Enabled Lights / Appliances

To ensure proper operation of non-KPA enabled lights or appliances, they must be connected to the relay output side of the CS107D controller. **DO NOT** connect Wireless KPA Enabled Light Fixtures to this output.

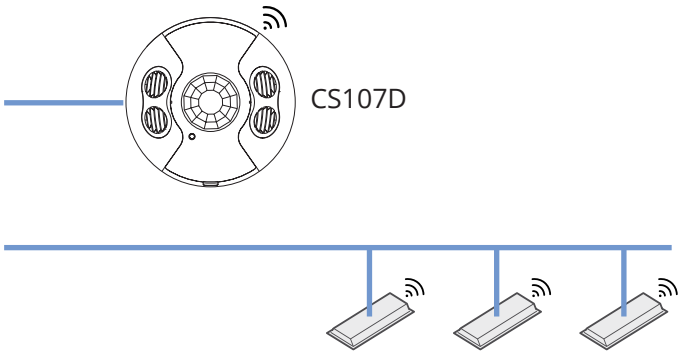
Use the CS107D to turn ON/OFF non-Keilton-inside lights and appliances.

Connect those lights and appliances to the relay output of the CS107D. The sensor automatically turns them ON when motion is detected and turns them OFF when motion times out.

You can also associate a switch to the same group as the CS107D to manually turn the lights ON/OFF when necessary.

Typical Applications

Linkage Application



Legend:

Power supply

Wireless KPA Enabled Light Fixtures

To ensure proper linkage functionality, Wireless KPA Enabled Light Fixtures must be connected to constant unswitched power. **DO NOT** connect these fixtures to the load/relay side of the CS107D controller.

Use the CS107D to turn ON/OFF Keilton-inside lights and appliances.

Associate the CS107D with a group of Keilton-inside lights. The sensor automatically turns the lights ON when motion is detected and turns them OFF when motion times out.

You can also associate a switch to the same group as the CS107D to manually turn the lights ON/OFF when necessary.

Please follow the instructions to provide bi-level dimming on Keilton-inside light together with the CS107D ceiling sensor:

- Commission the CS107D and the lights to a ZONE by Keilton+autani App.
- Create a group and add those lights as members.
- Enable the motion sensor function for Keilton-inside lights in the Keilton+autani App, even if there are no motion sensors installed on these lights.
- Disable the daylight harvesting sensor function for the group.
- Set the 1st Time Delay (T1), the 2nd Time Delay (T2) and the Dim Level for those lights.
- Dim the group to proper level and save it as auto point.
- Better set the T1/T2/DIM same as the group.
- Enable Linkage for the group. If Linkage is already ON, turn it OFF and ON again.



Need Help?

Technical Support For installation, configuration, and troubleshooting assistance
Support Center: https://autani.zendesk.com/hc/en-us | Email: support@autani.com
Phone: +1 (443) 320-2233 | Hours: Monday-Friday, 9 AM - 5 PM ET

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