sensorswitch®

CMS SSA
CEILING/SURFACE MOUNT SENSOR
INSTALLATION INSTRUCTIONS

OVERVIEW

CMS SSA is a low voltage wireless ceiling/surface mount occupancy sensor with daylighting capabilities. CMS is powered by the PP5 SSA and installs in applications with finished ceilings (e.g. ceiling tiles, sheetrock, plaster).

INSTALLATION INSTRUCTIONS

These instructions are for mounting the sensor directly to a ceiling tile or sheetrock surface. Sensor's mounting holes align with standard round single gang handy box (screws not provided).

1. Using template included with unit, mark spots on ceiling tile / sheetrock for wire hole and mounting anchors/screws
2. Drill 1/2" hole through ceiling surface at location indicated on template
3. Insert provided anchors into ceiling surface at locations indicated on template
4. Mount sensor to anchors using two screws provided
5. Complete wiring per wiring diagram below
6. Install decorative sensor lid by rotating clockwise.
7. Once power is received via red/black wires, you can begin pairing.

For added convenience, based on your wiring situation, there are multiple ways to pair CMS SSA:
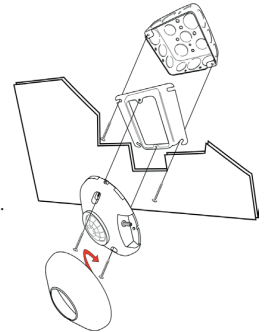
- When the PP5 SSA and CMS SSA are placed on the load of the SSA switch, insert SSA tool and press hold any button for 6-seconds to start auto-pairing.
- When the PP5 SSA and CMS SSA are on a different circuit, they can be accepted into a group or create a new group via join / accept pairing technique. Here are the steps:
  - ➤ Press and hold the button on the sensor for approximately 6-seconds to place it into "active configuration mode"
  - ➤ Visually, active configuration will start with a rapid flash followed by a double blink every second. This will last for 10-seconds.
  - ➤ While in active configuration mode, press the button 6-time to place the device in join mode. Join mode will last for 10 minutes or until it is accepted into a SSA group by another device.
  - ➤ On an existing device within the group, place that device in accept mode: (1) active configuration mode, followed by (2) 7-button presses.
  - **WARNING:** When using join / accept pairing ensure other spaces are not being paired at the same time; otherwise, cross pairing may occur.
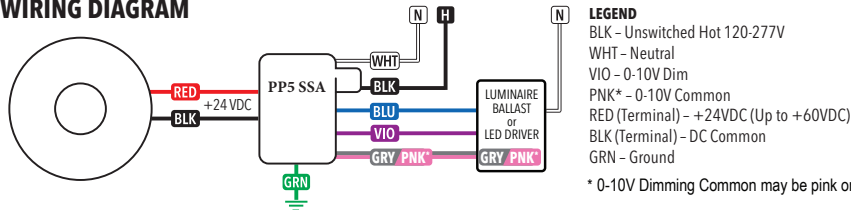- Using the Clarity+ app, form the SSA group (and subsequent CMS SSA device) using its existing workflow.

Available Setting Codes (Before setting code entry, the device must first be placed in active configuration mode as describe above.)

- **2 = Occupancy Time Detect**
  After LED blinks, press button to choose:

1- Test Mode	8 - 15 min
2- 30 sec	9 - 17.5 min
3- 2.5 min	10 - 20 min
4- 5 min	11 - 22.5 min
5- 7.5 min	**12** - 25 min
6- 10 min*	13 - 27.5 min
7- 12.5 min	14 - 30 min

- **3 = High Trim (Max Brightness)**
  After LED blinks, press button to choose:

1- 1%**	7- 60%
2- 10%**	8- 70%
3- 20%	9- 80%
4- 30%	10- 90%
5- 40%	11- 100%*
6- 50%	

- **4= On Mode**
  After LED blinks
  1- Auto <or> 2 - Manual

- **6 = Join**

- **7 = Accept**

- **8 = Add Mobile Device**

- **9 = Reset Mobile PIN**

- **10 = Remove Local Device**
  After LED blinks, press button to choose:
  1- Do Nothing <or> 2 -Remove Device

- **11 = Restore Group Devices**
  After LED blinks, press button to choose:
  1- Do Nothing <or> 2 -Remove Device

  * Post pairing default level
  ** The dimming range is driver dependent.

- **12 = Low Trim**
  After LED blinks, press button to choose:

1- 1%**	7- 60%
2- 10%**	8- 70%
3- 20%	9- 80%
4- 30%	10- 90%
5- 40%	11- 100%
6- 50%	

WIRING DIAGRAM

LEGEND
BLK – Unswitched Hot 120-277V
WHT – Neutral
VIO – 0-10V Dim
PNK* – 0-10V Common
RED (Terminal) – +24VDC (Up to +60VDC)
BLK (Terminal) – DC Common
GRN – Ground

* 0-10V Dimming Common may be pink or as otherwise indicated per section 410.69 of the 2020 NEC

For further troubleshooting guidance, please contact the Controls Technical Support Team
1(800)-535-2465

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

AcuityBrands®
Expanding the boundaries of lighting™

WARRANTY
5-year limited warranty.
Full warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service should be performed by a qualified licensed electrician.
- Maintenance should be performed by qualified person(s) familiar with the products' construction & operation & any hazards involved. Regular maintenance programs recommended.
- **DO NOT INSTALL DAMAGED PRODUCT!** This product has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.

⚠️ **CAUTION: RISK OF PRODUCT DAMAGE**
√ Electrostatic Discharge (ESD): ESD can damage product(s). Personal grounding equipment should be worn during all installation or servicing of the unit.
√ Do not touch individual electrical components, as this can cause ESD and affect product performance.
√ Do not stretch or use cable sets that are too short or are of insufficient length.
√ Do not tamper with contacts.
√ Do not modify the product.
√ Do not change or alter internal wiring or installation circuitry.
√ Do not use product for anything other than its intended use.

WARNING - RISK OF ELECTRIC SHOCK
√ Disconnect or turn off power before installation or servicing.
√ Verify that supply voltage is correct by comparing it with the product information.
√ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
√ All wiring connections should be capped with UL approved recognized wire connectors.
√ All unused connector openings must be capped.

WARNING - RISK OF BURN or FIRE
√ Do not exceed maximum wattage, ratings, or published operation conditions of product.
√ Do not overload.
√ Follow all manufacturer's warnings, recommendations and restrictions to ensure proper operation of product.

CAUTION - RISK OF INJURY
√ Wear gloves and safety glasses at all times when installing, servicing or performing maintenance.