PRODUCT SAFETY

When using electrical equipment, basic safety precautions should always be followed, including the following:

⚠ **READ THESE INSTRUCTIONS BEFORE USING THIS PRODUCT.**

⚠ Do not let power supply cords touch hot surfaces.

⚠ Do not mount near gas or electric heaters.

⚠ Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

⚠ The use of accessory equipment is not recommended by Encelium as it may cause an unsafe condition.

⚠ Do not use this equipment for other than the intended use.

⚠ **SAVE THESE INSTRUCTIONS.**

GETTING STARTED

Overview

The GreenBus Sensor(GBS) family of ceiling/surface mount sensors provides a range of networked sensor solutions for applications with finished ceilings (e.g. ceiling tiles, sheetrock, plaster). They combine passive infrared (PIR) and photocell sensing in a single compact form factor.

The GBS is available in three models:

- Standard Range
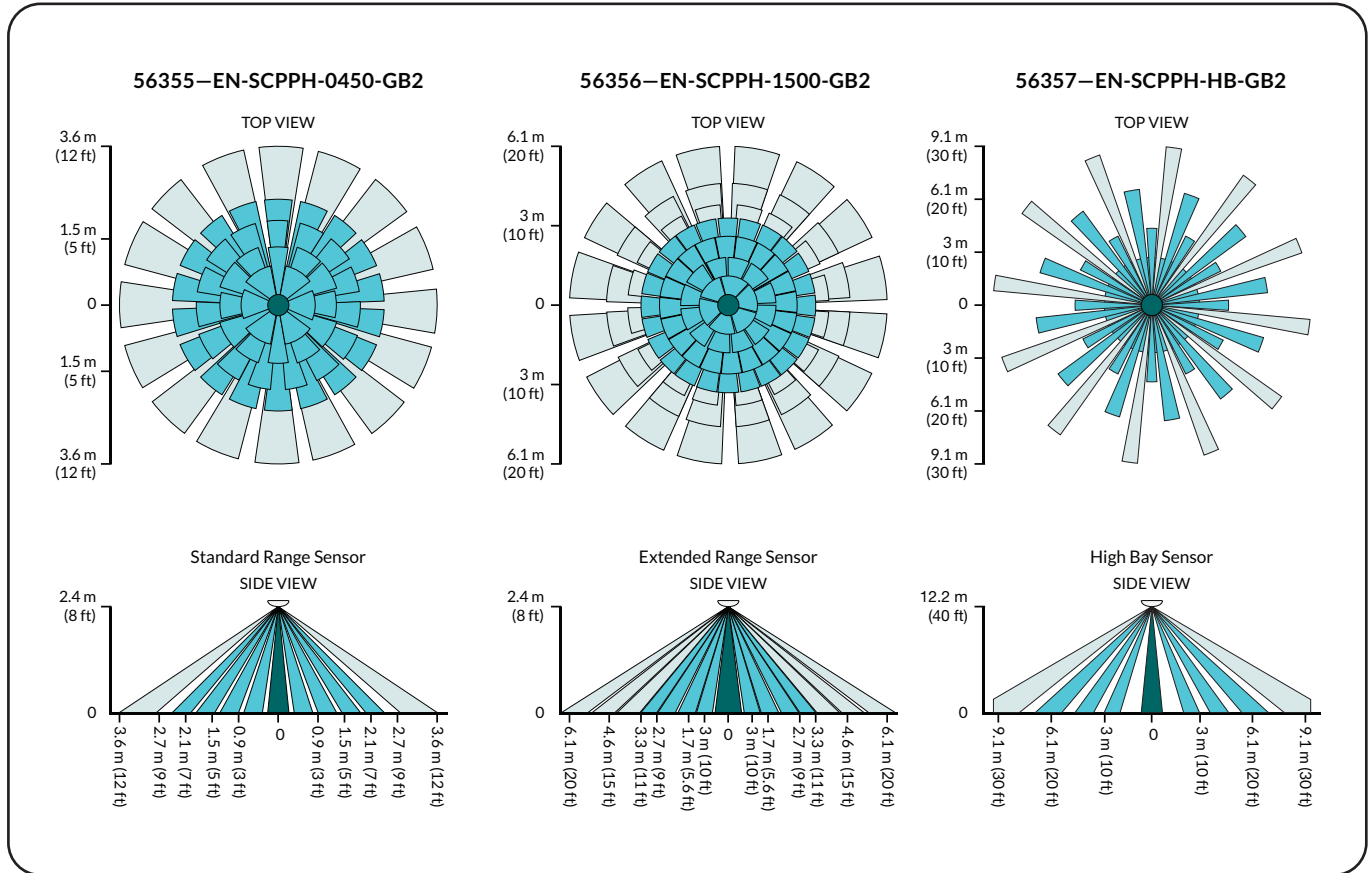- Extended Range
- High-Bay

ENCELIUM

WIRED SYSTEM OVERVIEW

GreenBus is a low-cost, high reliability communication means to report sensor information back to the Encelium X and to obtain optimum brightness settings for light luminaires. The GreenBus wiring originates at the Wired Manager and propagates in a daisy-chain from module to module (or other compatible equipment).
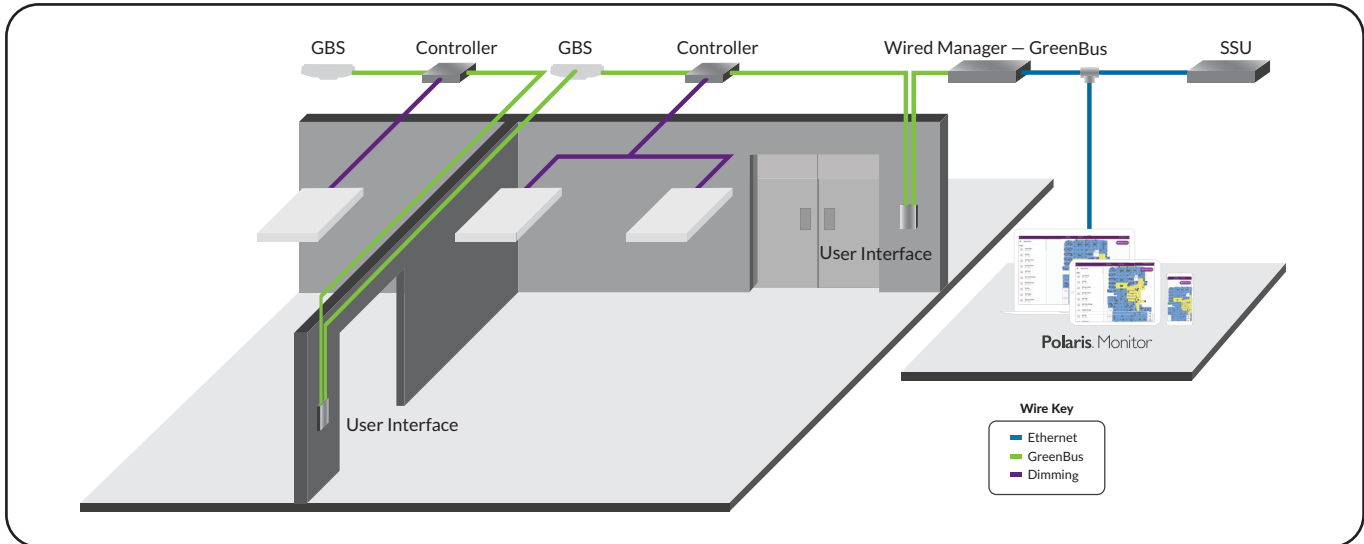
Note: As the modules obtain power via the GreenBus, the number of modules on each chain is limited. Encelium suggests leaving room for future system upgrades and limiting the number of modules per chain to 100 units during initial installation.

GBS

SENSOR COVERAGE

56355—EN-SCPPH-0450-GB2

TOP VIEW

Standard Range Sensor
SIDE VIEW

56356—EN-SCPPH-1500-GB2

TOP VIEW

Extended Range Sensor
SIDE VIEW

56357—EN-SCPPH-HB-GB2

TOP VIEW
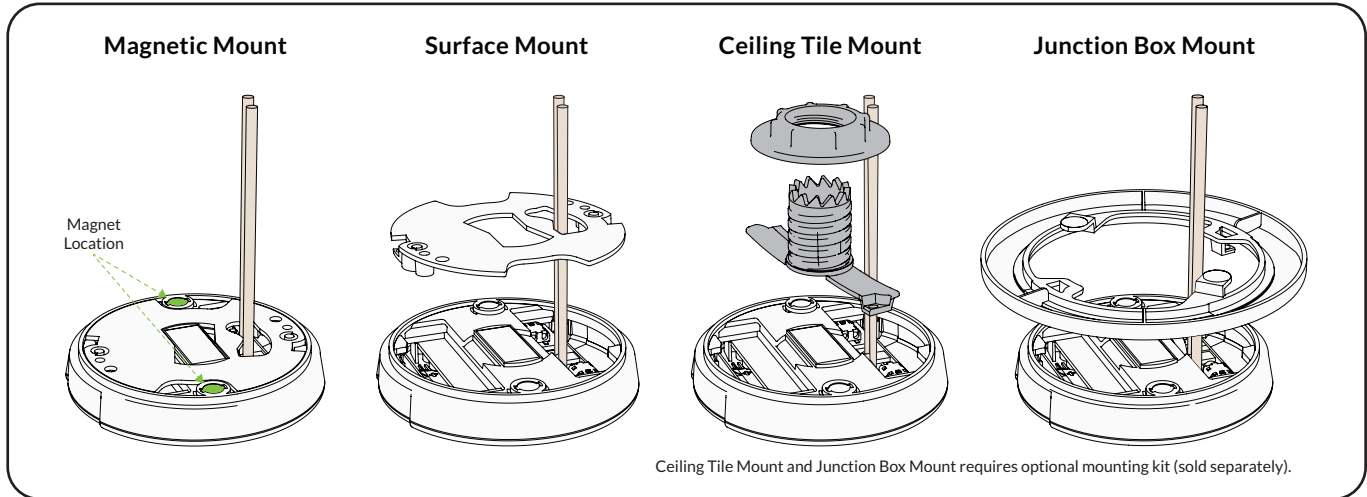
High Bay Sensor
SIDE VIEW

Notes: The sensor must be installed in dry, indoor locations ONLY. Do not install the sensor in damp locations.

Damp locations are defined as: interior locations subject to moderate degrees of moisture, such as basements, barns, cold-storage warehouses, as well as partially protected locations under canopies, marquees and porches with open roofs. The sensor provides a 360° coverage pattern. Encelium recommends that the sensor be installed more than 1.2 m (4 ft) away from air supply vents.

GBS

MOUNTING OPTIONS

The sensor can be mounted in a variety of ways depending on the type of ceiling.

| Magnetic Mount | Surface Mount | Ceiling Tile Mount | Junction Box Mount |

Magnet Location

Ceiling Tile Mount and Junction Box Mount requires optional mounting kit (sold separately).

❶ **Option 1 — Magnetic Mount**
Magnets have been incorporated into the sensor allowing the device to be affixed to a metallic ceiling surface (metal plate, drop-ceiling T-bar, etc).
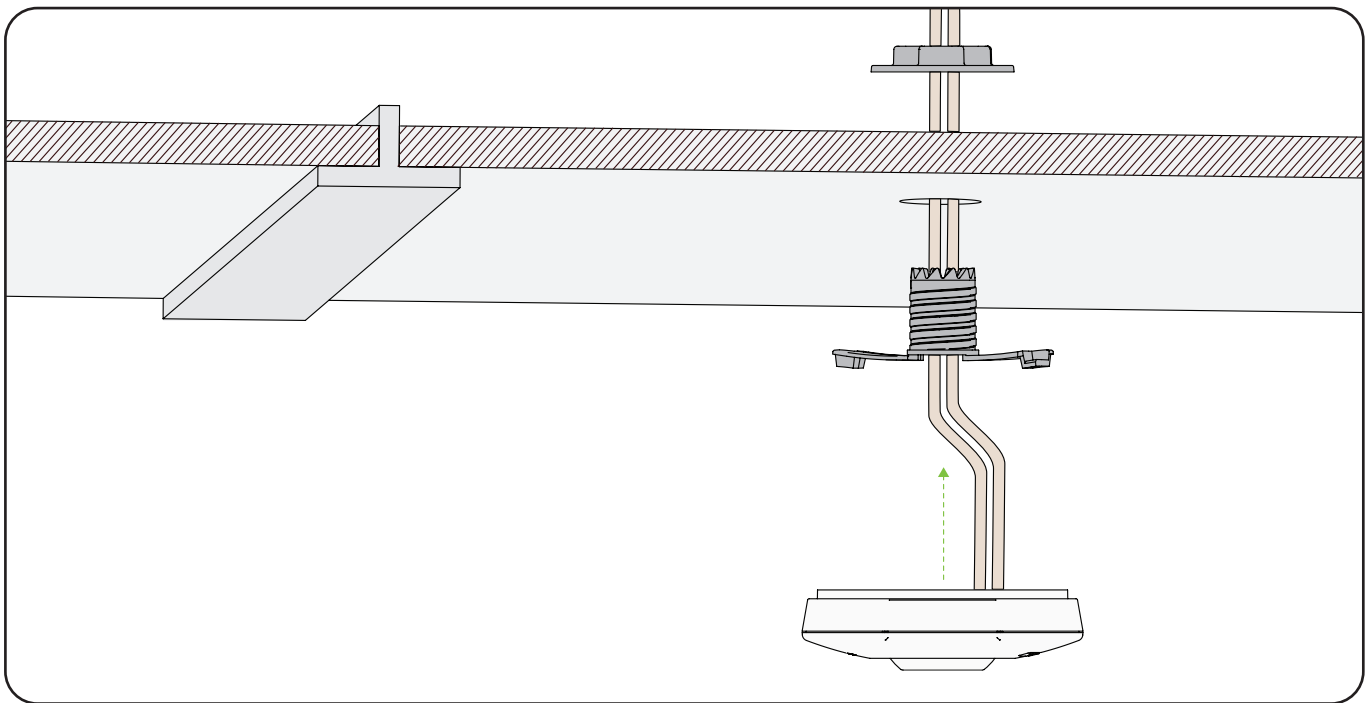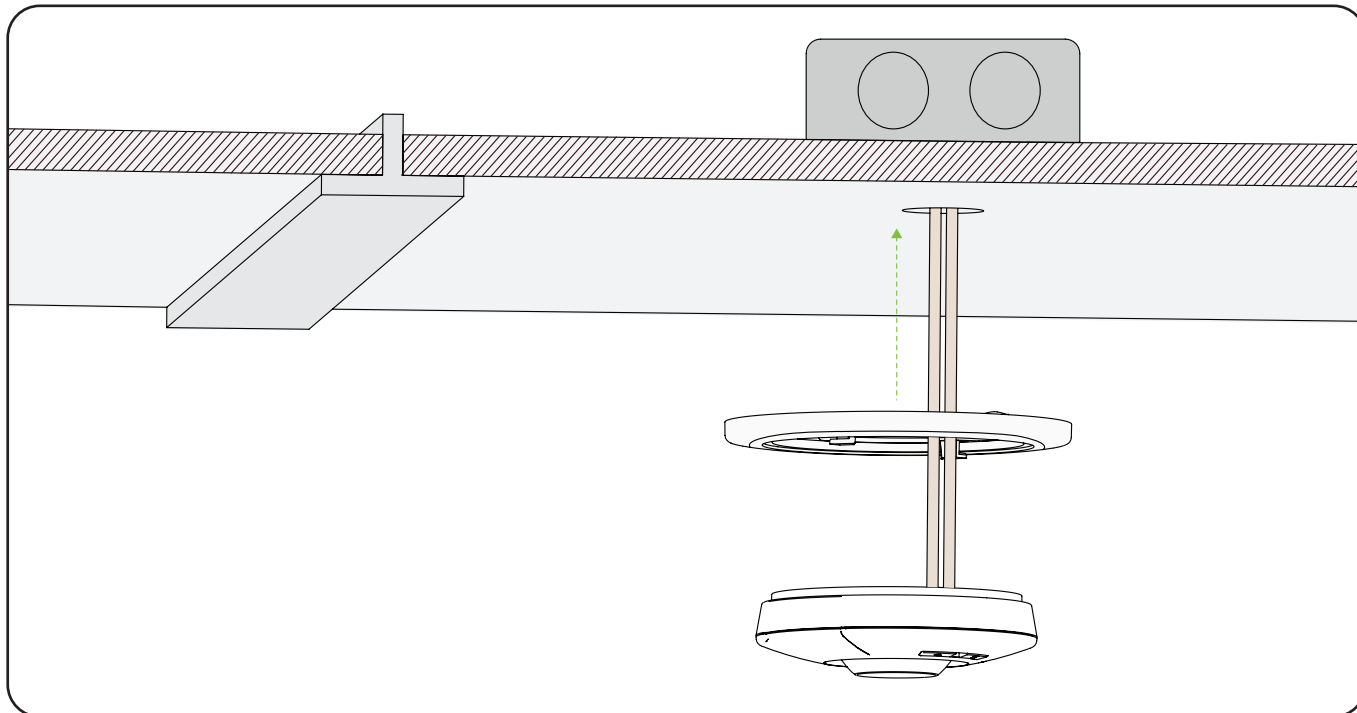
GBS
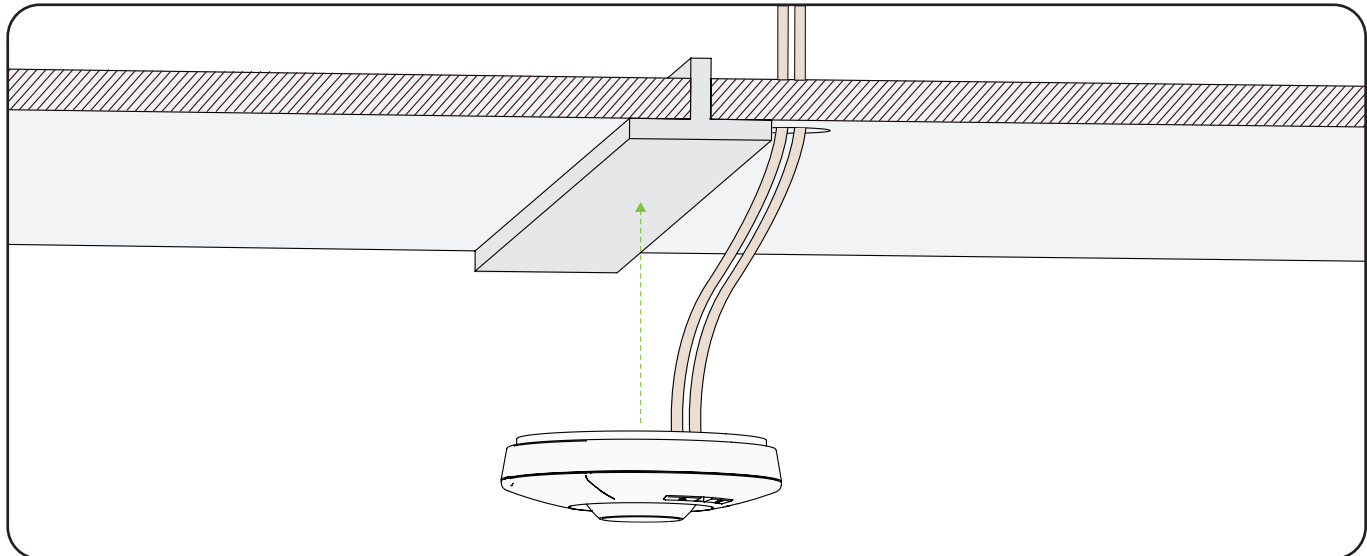
❷ **Option 2 — Surface Mount**

The sensor may be installed directly to a ceiling surface (ceiling tile, drywall ceiling, etc). There are several screw options available to affix the sensor directly to ceiling surfaces.

Helical Screw   Thumb Screw   Drywall or Wood Screw (#6)
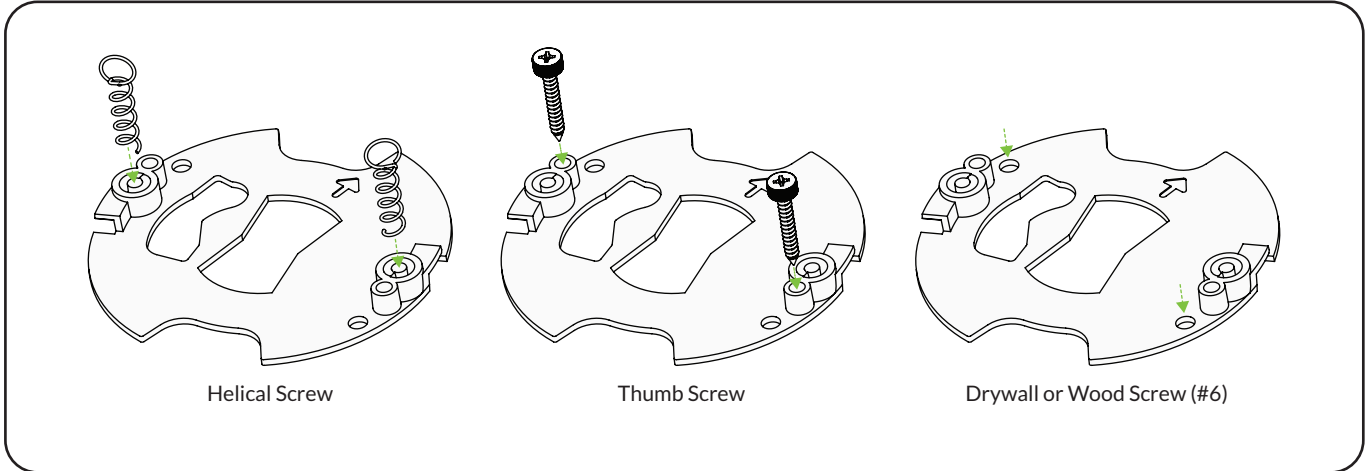
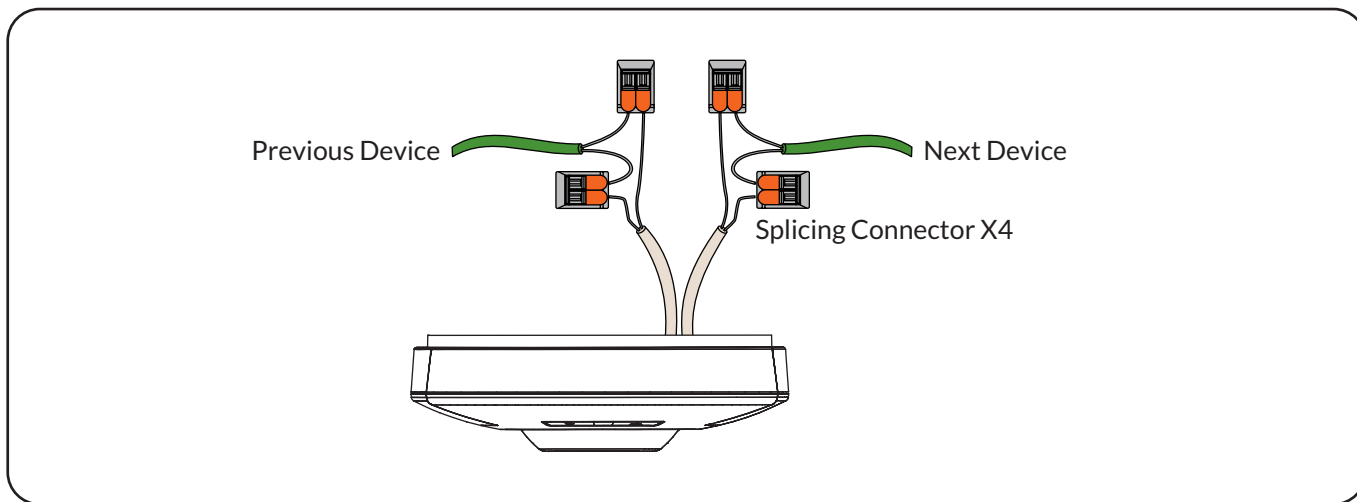❸ **Option 3 — Ceiling Tile Mount**

❹ Option 4 — Junction Box Mounting Ring

ELECTRICAL CONNECTIONS

GBS Wiring

Terminal blocks are pre-wired on the wires out of the box and are wired as shown.

Previous Device

Next Device

Splicing Connector X4

INSTALLATION TESTING

Installer can quickly test if the devices have been wired correctly by pressing any button on the wallstation or the sensor which triggers all the load controllers on the channel to change the dimming level by 25%. Every press will trigger this function to enable testing of the AC line wiring, dimming wiring and communication integrity over the GreenBus lines.
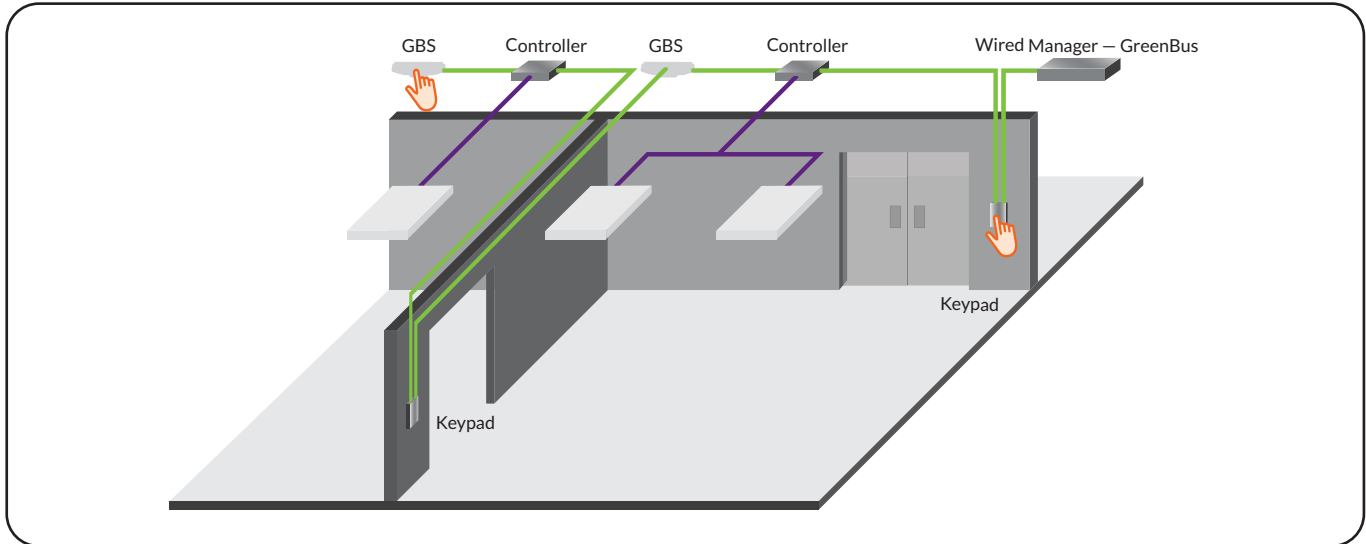
MANUAL PAIRING

Installers can easily pair devices in a room or a zone to gain manual control (on, off and dimming) and occupancy time outs. Holding any buttons on a wallstation or sensor for 10 seconds enters the system in the Manual Pairing mode. The system then guides the
user by blinking the load controllers on the GreenBus wiring scheme as a means of identifying and pairing them to the wallstation or sensor.
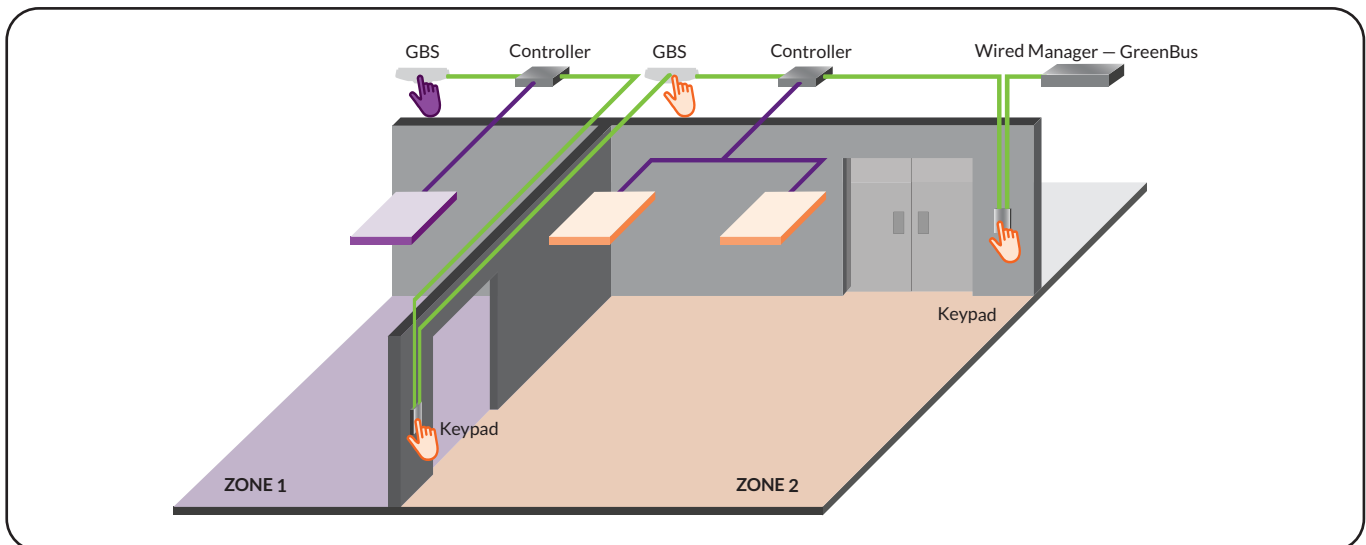
SENSOR MASK INSTALLATION

❶ Remove the ring (lens surround) from the sensor assembly.
This can be achieved by rotating the ring counter-clockwise.

❷ Place the supplied mask and rotate clockwise until it latches.

Remove the Ring   **Install Mask**

Lens Surround

Lens Surround

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