




Enlighted SU-6E-2W Micro Sensor Installation Guide

[Home](#) » [enlighted](#) » Enlighted SU-6E-2W Micro Sensor Installation Guide 

Enlighted SU-6E-2W Micro Sensor Installation Guide



Contents

- [1 Shipped Components](#)
- [2 Supplemental Components](#)
- [3 Tools you may Need](#)
- [4 Fixture Mount Sensor Installation](#)
- [5 Tile Mount Sensor Installation](#)
- [6 Connecting the Cable to the LED Driver](#)
- [7 LED Description](#)
- [8 Company Contact Information](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)
- [10 Related Posts](#)

Shipped Components

- Enlighted Micro Sensor, (SU-6E-2W)

Supplemental Components

- Tile Mount Carrier (TMC-SU-5E)*
- Hard Ceiling Mount Carrier (HCMC-SU-5E)*
- 18 AWG (0.75 mm²) solid copper wire

Tools you may Need

- 7/8" or 23 mm Drill bit (1/2" or 13 mm knock out trade size)
- Hand drill
- Wire stripper

* Sold separately. Contact Enlighted Customer Support.

Caution

A qualified electrician must perform installation and maintenance under local, state, and national electrical codes (NEC) and requirements. For installations outside of North America, qualified personnel must conform to appropriate standards when installing and maintaining products powered by FELV circuits, such as some DALI installations.

Warning



FELV circuits are not safe to touch.



- Isolate the circuits connected to any FELV source from the AC mains supply of the control gear.



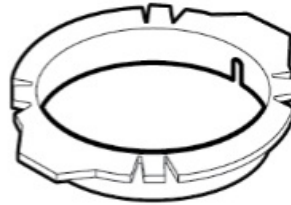
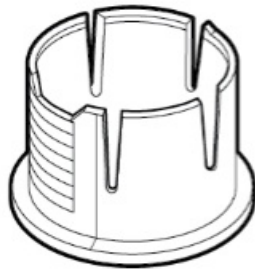
- Ensure to protect the FELV circuit from any accidental contact.
- When installing the Radio Module, de-energize the FELV source and any AC main sources near the FELV.
- Place the Radio Module in a luminaire or other suitable enclosure only (when powered by FELV).
- Circuits connected to any FELV control terminal must be insulated for the LV supply voltage of the control gear, and all terminals connected to the FELV circuit must be protected from accidental contact.
- To avoid the possibility of exceeding the FCC and ISED radio frequency exposure limits, human proximity to the radiator shall not be less than 20cm during normal operation.

Fixture Mount Sensor Installation

Step 1: De-energize the luminaire.

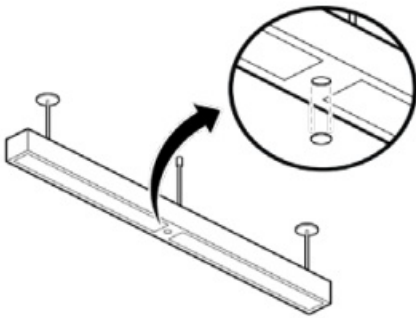
Note: For fixture mounting, use the fixture carrier and nut that is shipped with the sensor. The fixture mount can accommodate up to 0.25" (6.35 mm) thickness materials.

Fixture Carrier



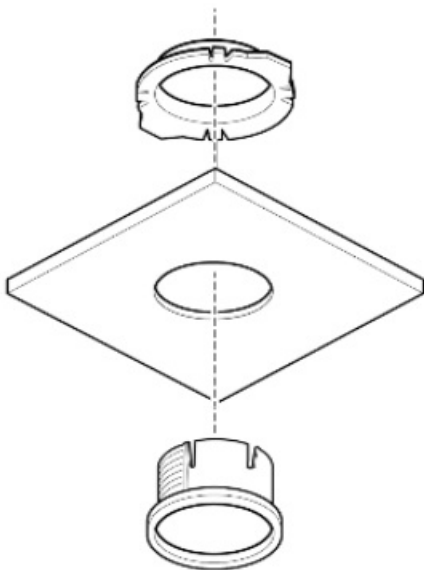
Nut

Step 2: Determine the location for the sensor in the fixture and drill a ½ inch (7/8" or 23 mm diameter) knockout in the fixture.

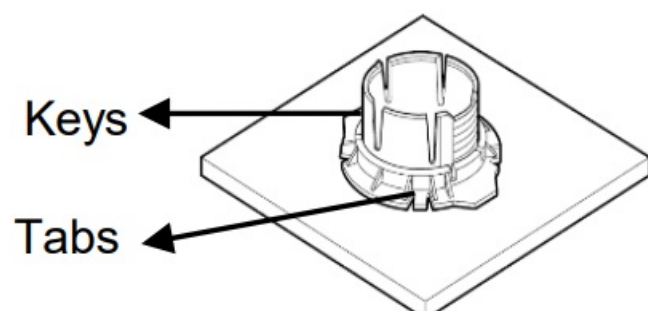


Step 3: Insert the fixture carrier through the hole in the fixture

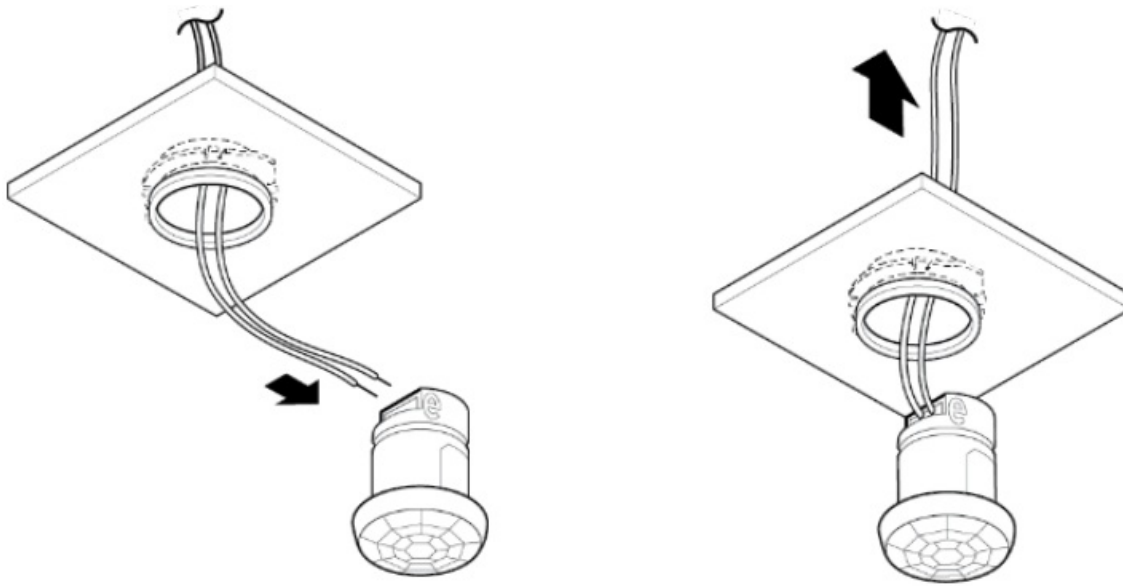
Step 4: From behind the fixture, align the tabs of the nut with the keys on the fixture carrier



Step 5: Slide the tabs of the nut along the keys of the carrier to fasten the carrier.



Step 6: Cut two lengths of 18 AWG (0.75 mm²) solid wire of the required length. Strip insulation from each end of the two wires leaving 5/16 in (8 mm) of exposed wire.



Step 7: Insert one end of the pair of wires through the hole in the fixture and connect the wires to the sensor.

Step 8: Guiding the wire from above, push the sensor into the carrier until it securely clicks into the carrier.

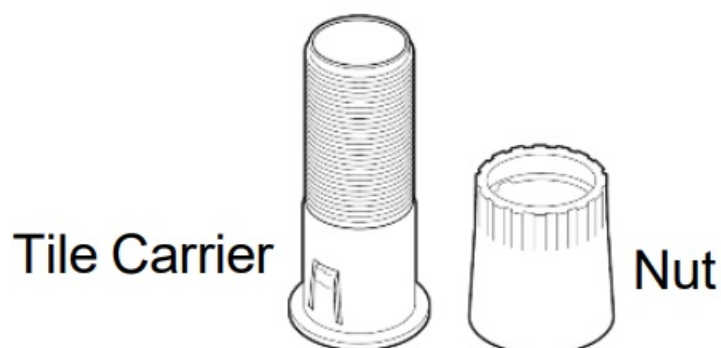
Step 9: Leave four inches of slack cable in the sequence loop to avoid pinching of the cable and to bring the sensor down if it needs to be replaced.

Note: Do not pull the cable forcefully as this might damage the cable or connector.

Step 10: See section Connecting the Cable to the LED Driver.

Tile Mount Sensor Installation

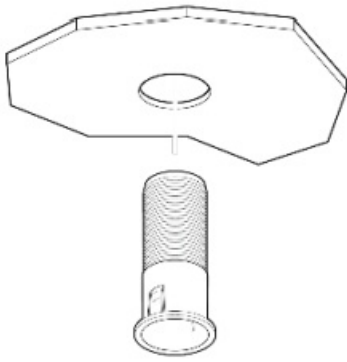
Note: For tile mounting*, the tile carrier and nut must be ordered separately. The tile mount can accommodate up to 1.5" (38 mm) thick tiles.



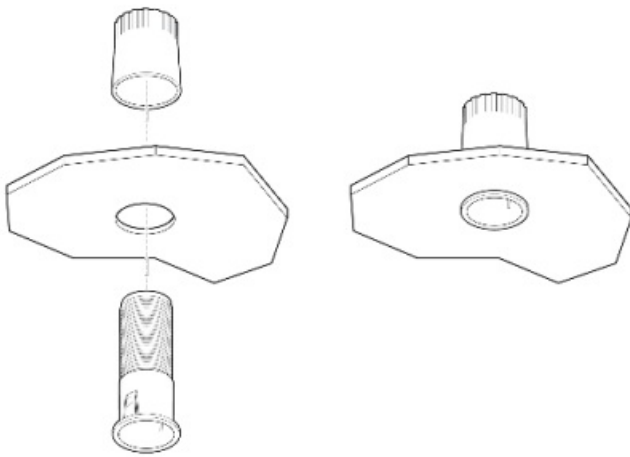
Step 1: De-energize the luminaire.

Step 2: Make a 7/8" or 23 mm diameter hole in the ceiling tile.

Step 3: Insert the tile carrier through the hole into the tile.

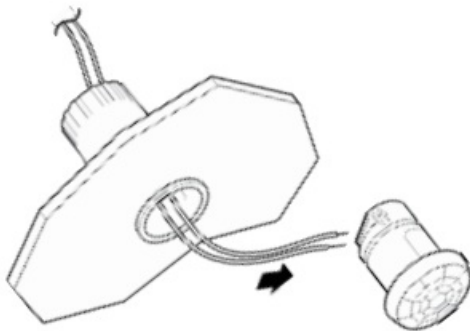


Step 4: Thread the plain end of the nut from behind the tile to secure the carrier.
If the tile is thicker than normal, flip the nut and thread the ribbed end of the nut to secure the carrier.

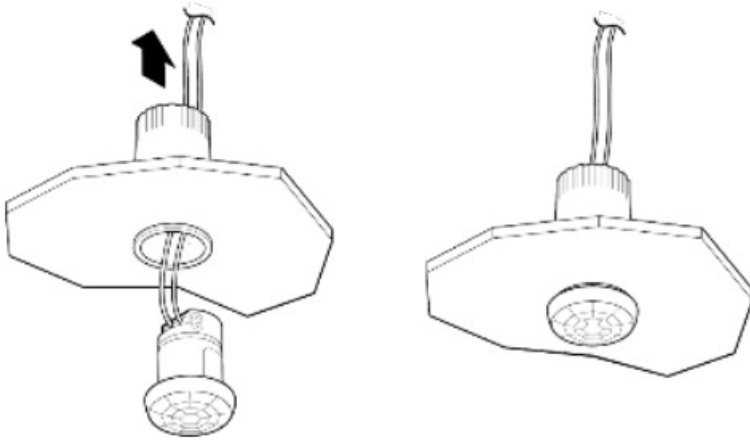


Step 5: Cut two lengths of 18 AWG (0.75 mm²) solid wire of the required length. Strip each end of the two wires leaving 5/16" (8 mm) of exposed wire.

Step 6: Insert one end of the wires through the hole in the tile and connect the wires to the sensor.



Step 7: Guiding the wire from above, push the sensor into the carrier until it securely clicks into the carrier.



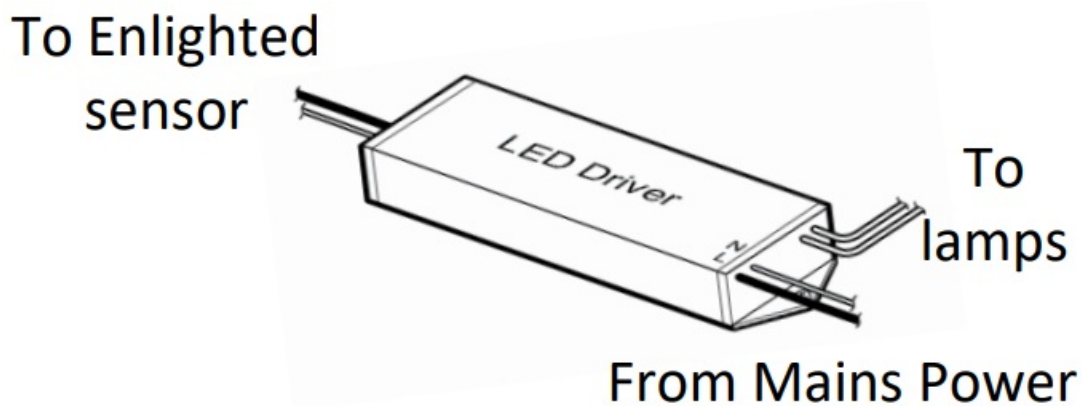
Step 8: Leave four inches of slack cable in the sequence loop to avoid pinching of the cable and to bring the sensor down if it needs to be replaced.

Note: Do not pull the cable forcefully as this might damage the cable or connector.

Step 9: See section Connecting the Cable to the LED Driver.

Connecting the Cable to the LED Driver

Step 1: Connect the pair of wires to the LED Driver.



Step 2: Turn the power on by switching on the circuit breaker and wait for the green LED to appear.

LED Description

Note: The purpose of wiring test is to serve as a sanity check regarding connectivity to the sensor. However, the overall responsibility of the quality of the device must meet the QC criteria for the light fixture manufacturer.

LED Status	Description/Solution
LED not on	The sensor is not powered on. Check power and wiring
Blinking Green	The commissioned sensor has powered up and has detected motion. If there is no motion in the sensor's field of view, the blinking will stop. Wave your hands below the sensor to restart LED blinking.
Solid Green	The uncommissioned sensor has powered up successfully and completed the wiring test with no unexpected conditions – waiting for discovery.
Blinking Red	The uncommissioned sensor has powered up and completed the wiring test with one or more conditions unexpected of a typical LED fixture – waiting for discovery.
Solid Red	Faulty sensor – replace the sensor.
Solid Blue	Sensor received a request to identify itself.
Blinking Blue	The uncommissioned sensor powered up successfully, but the sensor is unable to detect an energy measurement device (CU or Driver), waiting for discovery.
Blinking Magenta	When the sensor is connected to a DALI emergency driver that is currently in the process of an emergency test or an emergency test pending.
Interrupted Green	Un-commissioned fixtureless sensors.

Company Contact Information

Location: 3979 Freedom Circle, #210,
Santa Clara, CA 95054

Phone: +1.650.964.1094

Web: enlightedinc.com

DoCs: <https://www.enlightedinc.com/eu-docs/>

Support Portal: support.enlightedinc.com

Model No. SU-6E

Product Code: SU-6E-2W

Power: 180 mW

FCC ID: AQQ-SU6E

IC: 10138A-SU6E

HVIN: 01-03335-03



This device complies with Part 15 of the FCC Rules and Innovation, Science and Economic Development Canada's license-exempt RSS standard(s). 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 of the device.

Changes or modifications not expressly approved by Enlighted could void the user's authority to operate the equipment.

Copyright © Enlighted Inc. All rights reserved.

All other brand or product names are trademarks of their respective companies or organizations.



Documents / Resources

	Enlighted SU-6E-2W Micro Sensor [pdf] Installation Guide SU-6E-2W Micro Sensor, SU-6E-2W, Micro Sensor, Sensor
---	---

References

- [🔗 Enlighted Support \(Public\)](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.