

EXTERNAL CORE NODE INSTALLATION / REFERENCE GUIDE

SAFETY PRECAUTIONS / INSTALLATION CONSIDERATIONS



WARNING

- Installation and service should be performed by a qualified licensed electrician.
- All electrical work should be completed by a licensed electrical contractor.
- Installation should conform to all national and/ or local municipal laws and codes.
- Disconnect or safe-off all power before installation.
- DO NOT INSTALL DAMAGED PRODUCT! This External Core Node and External Sensor Pod 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.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, please contact Sensity Systems directly.
- Installation is intended for outdoor luminaires. Product should not be installed ≤ 20 ft from ground level and must be considered out of reach from normal access.

Environmental Considerations

- Operational Temperature: -30°C - $+55^{\circ}\text{C}$ (-22°F - 131°F)
- Storage Temperature: -50°C - $+65^{\circ}\text{C}$ (-58°F - 149°F)
- Ingress Protection Rating:
 External Core Node - IP43 Compliant
 External Sensor Pod – IP65 Compliant

Required Tool List

- Flat Head Screwdriver
- Cable De-Latching Tool
- UV resistant outdoor cable ties

Power, Current and Weight Requirements

Voltage Configuration	Switchable LED Power (Watts)	Switchable LED Current (A)	Switchable AUX Current (A)	Maximum Weight (lbs.)
120V	600	5	2	1.0
277V	831	3	2	1.0
480V	480	1	1	1.5

External Sensor Pod Pole Mounting Requirements

Mounting Type	Horizontal Pole Mount	Vertical Pole Mount
Round Pole Diameter	1 5/8" – 2 3/8"	Minimum 3"
Square Pole Dimension	Minimum 4" height	Minimum 3" width

Installation Preparation

1. Ensure the luminaire fixture is equipped with acceptable 7-pin NEMA connector. If fixture does not have this receptacle, a retrofit kit can be ordered from Sensity Systems.
2. Ensure NEMA receptacle North Position (N) is orientated 90° right of luminaire (3 o'clock position) if faced from pole direction. This ensures the External Core Node power connection is correctly facing the pole-side of the luminaire.

Mounting Instructions

Pole Mounting illustration is shown. Box arm mounting instructions are same, substituting pole for box arm following mounting requirement size above.

1. Install the External Core Node on the photocell receptacle by fully seating the node prongs in to the receptacle, provide a slight clockwise twist to lock into place.

Optional External Sensor Pod Installation

1. External Sensor Pod includes (1) Horizontal Bracket and (1) Vertical Bracket for mounting. Chose what is best suited for installation and discard other.
2. Position External Sensor Pod at the distance provided by the included sensor power cable.
3. Using supplied band-clamp, feed strap through mounting tabs and secure to intended pole location.
4. Tighten clamp until sensor bracket is firm and secure.
5. Position External Sensor Pod onto mounting bracket and secure with wingnuts. No not over-tighten. Sensor should be facing in a downward position for optimal performance.
6. Remove protective cap from the External Core Node power tap using supplied De-Latching tool
7. Install supplied sensor cable into mating connectors on both External Core Node and External Sensor Pod. Ensure a positive snap is heard, noting positive connector engagement.
8. Secure all power cables to pole using UV rated cable ties. Refer to local and national codes for additional clarification and laws.



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REGULATORY COMPLIANCE STATEMENTS

USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Modifications or changes not expressly approved by Sensity Systems may result in the equipment no longer complying with FCC requirements for Class A digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

There are no serviceable items within this unit and cannot be serviced by any end user; regardless if in-warranty or out of warranty.

If the unit is malfunctioning or causing interference with existing radio devices:

- Determine cause of interference and remove suspect device from service
- Contact Sensity Systems Customer Service at 1-855-500-SENS (7367)

The Core Node contains a radio transmitter with the FCC ID SXNWYSBMVGX4I

Canada

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The user manual for local area network devices shall contain instructions related to the restrictions mentioned in the above sections, namely that:

- the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
- the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices

The Core Node contains a radio transmitter with the Industry Canada ID 20569-WYSBMVGX4I



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Safety

The equipment is suitable for installation outdoors.

The equipment is intended for professional installation and service by trained personnel only (no operator access).

Equipment is intended for installation in Restricted Access Locations.

The Core Node does not rely on the luminaire for protection from accidental contact to live parts.