

IMPORTANT SAFEGUARDS
READ AND FOLLOW ALL SAFETY INSTRUCTIONS

PRECAUTIONS

Read and understand all instructions before beginning installation.

CAUTION: FOR USE WITH CLASS 2, LOW VOLTAGE SYSTEMS ONLY. DO NOT USE IN HIGH VOLTAGE APPLICATIONS.

NOTICE: Class 2 Device, 12-24V, 30mA

NOTICE: Suitable for Use in Other Environmental Air Space (Plenums) in Accordance with Section 300.22 (c) of the National Electrical Code.

NOTICE: For installation by a licensed electrician in accordance with National and/or Local Electrical Codes and the following instructions.

Confirm device ratings are suitable for application prior to installation. Use of this device in applications beyond its specified ratings other than its intended use may cause an unsafe condition and will void manufacturer's warranty.

Use only approved materials and components (i.e. wire nuts, electrical box, etc.) as appropriate for installation.

NOTICE: DO NOT INSTALL IF PRODUCT APPEARS TO BE DAMAGED.

NOTICE: Do not use this equipment for other than its intended use.

BATTERY SAFETY:

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- The compatible battery type for this product is MS621T-FL11E.
- The nominal battery voltage is 3V.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above 85 degrees Celsius or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- This product contains non-replaceable batteries.
- Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact a physician immediately.

⚠ WARNING	
• INGESTION HAZARD: This product contains a button cell or coin battery. • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH of CHILDREN • Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	

**SAVE THESE INSTRUCTIONS AND PROVIDE TO OWNER
AFTER INSTALLATION IS COMPLETED**

REGULATORY INFORMATION

1. FCC ID: YH9NXSMP3, IC: 9044A-NXSMP3
2. 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.
3. 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 of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
4. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
5. FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20 cm between the radiator and your body.
6. ISED Radiation Exposure Statement – ISDE Déclaration d'exposition aux radiations:
 - This equipment complies with RSS-102 radio frequency radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.
 - Cet équipement est conforme aux limites d'exposition CNR-102 aux radiofréquences établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.
7. This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
 1. This device may not cause interference.
 2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

DESCRIPTION

NXSMP3 Series Digital Smart Sensors are a combination PIR Occupancy Sensor and Closed Loop Daylight sensor with a built-in Time Clock specifically designed for installation within a lighting fixture. The sensors can be programmed to provide Automatic On/Off control based on occupancy and/ or Automatic Light Level Control based on the amount of ambient daylight. They include a wireless 2.4GHz radio and Integral Bluetooth® for wireless networking and ladder-less programming from a mobile device and can be utilized in either stand alone or networked applications with other NX devices. The sensors use a proprietary method of wirelessly supporting UL924 Emergency Egress Lighting for those fixtures that are wired to emergency power.

SPECIFICATIONS

CONSTRUCTION

- Housing: ABS (UL 94, 5VA) Flame Class Rating, UV Inhibitors
- Color: White, Gray, Black
- 3.2oz (90.7g)
- Overall Dimensions: 1.87" (47.50mm) H x 3.48" (88.39mm) W
- Mounting Barrel: 1.31" (33.27mm) H x 1.4" (35.56mm) W
- Complies for use in a plenum area

MOUNTING

- Mounts directly in 1.5" diameter aperture, secured by supplied nut on threaded housing
- Recommended (HMO) Max Outdoor Mounting Height: 40 ft. (12.19m)
- Recommended (HMO) Max Indoor Mounting Height: 45 ft. (13.72m)
- Recommended (LMO) Max Mounting Height: 16 ft. (4.27m)
- Recommended (LMO) Minimum Mounting Height: 8 ft. (2.43m)

OPERATING ENVIRONMENT

- IP65 Rated for Indoor and Outdoor use
- Operating temperature: -40°F to 149°F (-40°C to 65°C)

OPERATING ENVIRONMENT (Continued)

- Relative humidity (non-condensing) 0% to 90%

ELECTRICAL

Input:

- Voltage: 12-24VDC supplied by LED Driver
- Power Consumption: 40mA max

STANDBY POWER (W):

- 0.1W

Output:

- 0-10V Dim to Off Control
- 0-10V Max Sink Current: 10mA

WIRELESS

- 2.4GHz: IEEE 802.15.4 Mesh Network
- Bluetooth® Version 5.2 to communicate with NXLC Mobile App for setup and commissioning (Range: Up to 50' clear line of sight)
- Radio Range: Up to 100ft (30m) for communication between wireless NX devices. Note: actual range is dependent upon building construction and radio location
- Recommended Deployment Practices: Locate three radios within a 100ft (indoor) radius for most reliable performance

SENSORS

- Detection Technology: Passive Infrared Sensor
- 1:1.4 Coverage Pattern (HMO) (mounting height: coverage radius)
- 1:3 Coverage Pattern (LMO) (mounting height: coverage radius)
- LED Indicator (Red) indicates occupancy detection

PROGRAMMING INTERFACE

- NX Lighting Controls Mobile App
- NX Site Manager for Network Applications

CERTIFICATIONS

- cULus Listed
- Complies with FCC Part 15
 - FCC ID: YH9NXSMP3
 - IC: 9044A-NXSMP3

WARRANTY

- 5-year limited warranty
- See website for additional information

PASSWORD

- Default: Curr3nt!

NXSMP3-HMO/LMO INSTALLATION

NXSMP3-HMO/LMO is Rated for Indoor and Outdoor Use

The NXSMP3-HMO/LMO is designed to be mounted in lighting-fixture applications.

INSTALLATION FOR IN-FIXTURE DEPLOYMENT

1. Choose a mounting location on the housing or lens with a flat surface where the sensor face and sensor lens will be oriented in the downward position as close to level as possible. NOTE: The sensor should be clear from obstructions to ensure proper detection.
2. Once a position is selected a 1-2/5" to 1-1/2" round opening in the fixture housing or lens needs to be made in order for the sensor to be mounted. After the sensor is in position use the provided locking ring and gasket to secure the sensor in place. NOTE: Do not over tighten the locking ring and gasket. This can cause damage to either the fixture or gasket.
3. After the sensor is mounted run the wires from the LED Driver to the top of the sensor as per the wiring diagram.
4. Once all connections have been made, take one of the provided MAC Address labels and affix it to the outside of the luminaire in a visible location. This will assist the field service engineer in programming the sensor during system startup. NOTE: Provide the additional MAC Address labels in the packaging for installing contractor to use in the field on MAC Address log, layouts, or other project documentation.
5. After install is complete perform end of line testing as provided by NXLC for verification of performance.

FOR SENSOR PROGRAMMING SEE NX MOBILE APP QUICKSTART USER GUIDE FOR DISCOVERING AND CONFIGURING SENSORS.

Emergency Mode Setup

Automatic Configuration Mode

1. 1. Installer – Identify Fixture powered by Emergency Circuit
2. 2. Installer – Connect to associated In-Fixture Device (NXSMP3 or NXRM3) via Bluetooth using mobile device
3. 3. Installer – Configure Device as Emergency Mode Receiver (EMR). The device will negotiate over wireless Mesh to determine Network Status Sender (NSS) and begin listening for Network Status messages

Manual Override of NSS

1. Installer – Configure device same as Automatic Configuration Mode per above process. Device negotiates for NSS and starts to operate as Emergency Mode device per above process
2. Installer – Identify Fixture powered by Normal Power Circuit that will be manually designated as NSS
3. Installer – Connect to associated In-Fixture Device (NXSMP3 or NXRM3) via Bluetooth using mobile device
4. Installer – Configure Device as NSS. All automatically-negotiated NSS devices will reconfigure as non-NSS

Emergency Mode Test - Installer Interaction

Installer – Identify Fixture(s) powered by Emergency Circuit

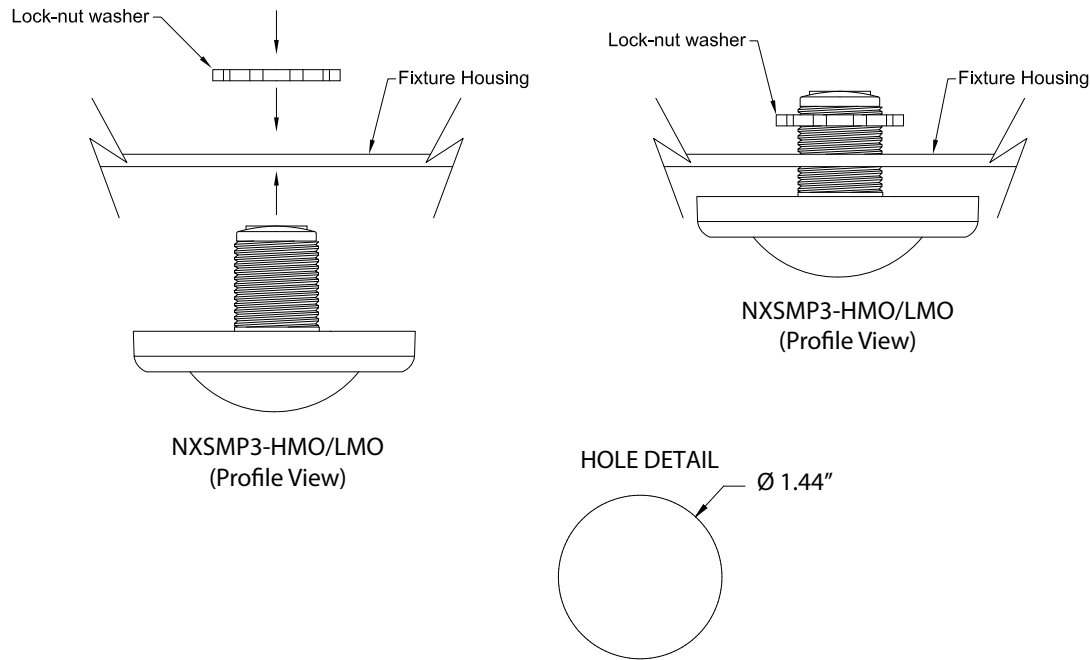
Option 1 – Breaker control

1. Shut off normal power
2. Verify devices on Emergency Circuit override to UL924 levels, Motion Status LEDs on devices turn on and stay on

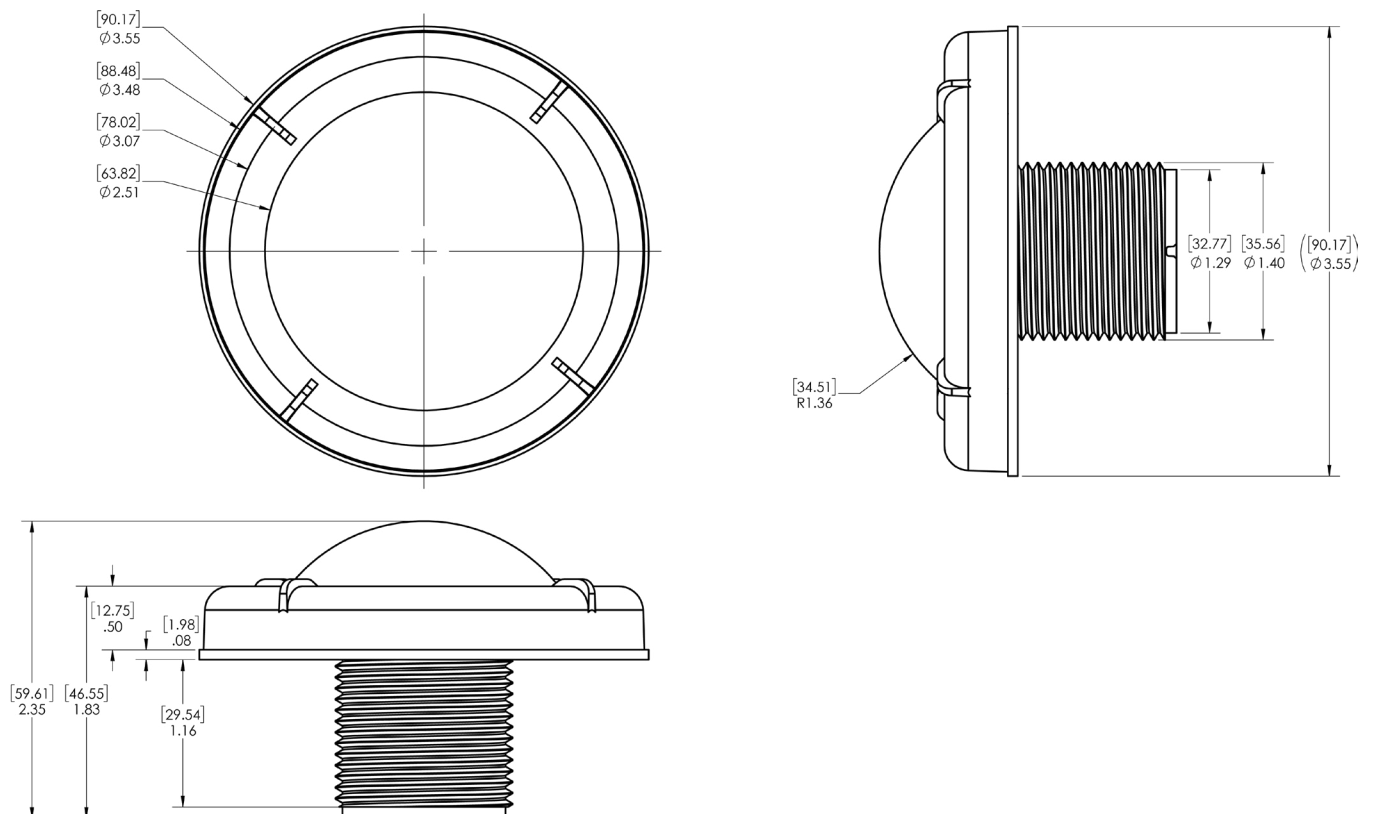
Option 2: Manually stop NSS(s) from sending Network Status messages

1. Installer – Connect to an In-Fixture Device (NXSMP3 or NXRM3) within associated Zone address via Bluetooth using mobile device
2. Installer – Go to UL924 test page in app and select EM924 test. The app sends out Bluetooth message to stop all NSS devices from sending NS messages until restarted or timeout
3. Installer – Verify devices on Emergency Circuit override to UL924 levels and Motion Status LEDs on devices turn on and stay on
4. Installer – Use app to stop test

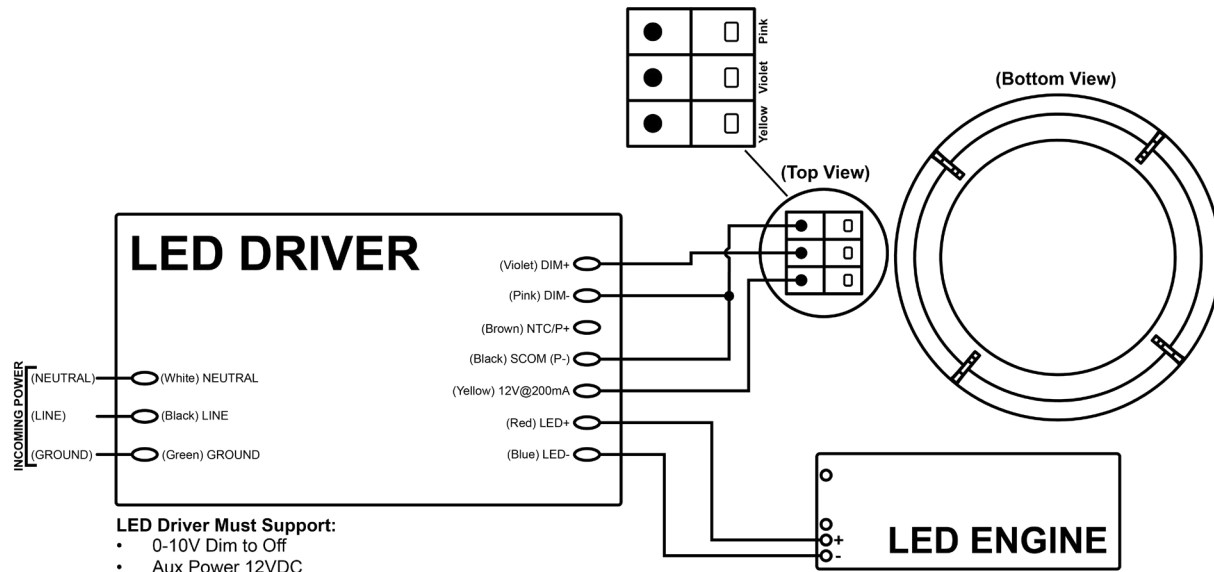
MOUNTING DETAIL



DIMENSIONS



WIRING DIAGRAM



NXSMP3-HMO/LMO