

## 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, 12V - 24V, 35mA

**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 outdoors. For In-fixture use only.

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

### REGULATORY INFORMATION

1. 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.
2. 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:
  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.
3. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
4. 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.
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: 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.

ISDE Déclaration d'exposition aux radiations: 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.

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

## DESCRIPTION

NXSMDT/NXSMIR-LH Digital Smart Sensor is a combination Passive Infrared and Ultrasonic Occupancy Sensor with Closed Loop Daylight Harvesting specifically designed for ceiling mount applications. When used with corresponding NX Actuator, the NXSMDT/NXSMIR-LH Digital Sensor 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. The NXSMt/NXSMIR-LHI Digital Sensor also includes an Integral Bluetooth® for wireless networking and ladder-less programming from a mobile device. The NXSMt/NXSMIR-LHI Digital Sensor can be configured via the NX Lighting Controls mobile application and can be utilized in either stand alone or networked applications with other NX Room Control or NX Network devices.

## SPECIFICATIONS

### CONSTRUCTION

- Housing: Rugged injection molded plastic, Polyac FR-ABS, (UL-94 5VA) flame class rating
- Color: White, Black, Gray (MTS); Ivory, Light Almond, Red (MTO)
- 2.4oz (68g)
- Dimensions: 4.12" (104.65mm) H x 1.86" (47.24mm) x 1.86" (47.24mm) D

### MOUNTING

- NEMA- style switch box (standard switch box - max mounting height: 48")
- Decorator-style wall plate sold separately

### ELECTRICAL

Input:

- Input Voltage: 12 - 24VDC supplied by NXRCFX2 (NX Room Controller)
- Power Consumption: 35mA
- NX PBU:5

### OPERATING ENVIRONMENT

- Rated for Indoor Use Only
- Operating temperature: 32° to 104°F (0° to 40°C)
- Relative humidity (non-condensing) 0% to 95%

### WIRELESS

- 2.4GHz: IEEE 802.15.4
- Bluetooth® Version V5.2
- Range: 100ft (30m) Note: actual range is dependent upon building construction and radio location
- Recommended Deployment Practices: Locate three radios within a 300 foot radius for most reliable performance

### SENSORS

- Detection Technology: Passive Infrared and Ultrasonic
- Coverage: 1,000 square feet (304.8 square meters)
- LED Indicator (Red) indicates infrared motion
- LED Indicator (Green) indicates ultrasonic motion

### PROGRAMMING INTERFACE

- NX Lighting Controls Mobile App
- NX Area Controller (NXAC) for Network Applications

### CERTIFICATIONS

- cULus Listed
- Complies with FCC Part 15
- FCC ID: YH9NXSMDT-LH
- IC: 9044A-NXSMDTLH

### WARRANTY

- 5-year limited warranty
- See HCS Standard Warranty for additional information

### PASSWORD

- Default: HubbN3T!

## NXSMDT/NXSMIR-LH INSTALLATION

### NXSMDT/NXSMIR-LH IS RATED FOR INDOOR USE ONLY

NOTE: The NXSMDT/NXSMIR-LH is designed to be mounted in a NEMA-style switch box

### INSTALLATION FOR WALL BOX DEPLOYMENT

- Prepare the installation site as necessary to install the sensor.
- Plug the CAT5 cable into any available SmartPORT or FX Port on the NX Room Controller (See Wiring Diagram) Verify solid snap-in connection.
- Route the CAT5 cable from the NX Room Controller to enter the RJ45 port on the sensor. **NOTE: Low voltage wiring must be isolated from line voltage wiring. Consult National and Local Electrical Codes for conduit requirements.**

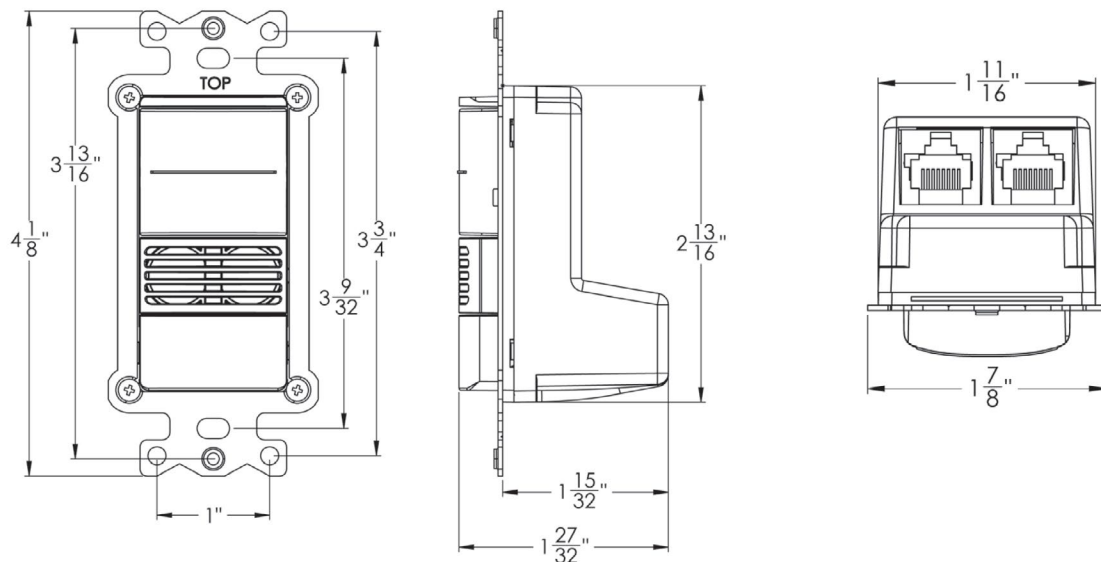
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## INSTALLATION FOR WALL BOX DEPLOYMENT

4. Plug the CAT5 cable into the sensor. Verify solid snap-in connection.
5. REMOVE ALL EXCESS CABLE FROM WALL BOX PRIOR TO INSERTION OF SENSOR. Connection between cable and sensor connection ports must remain straight and true without interference or pressure from excess or misaligned cables. It is recommended to test the functionality of the sensor prior to insertion in the wall box.

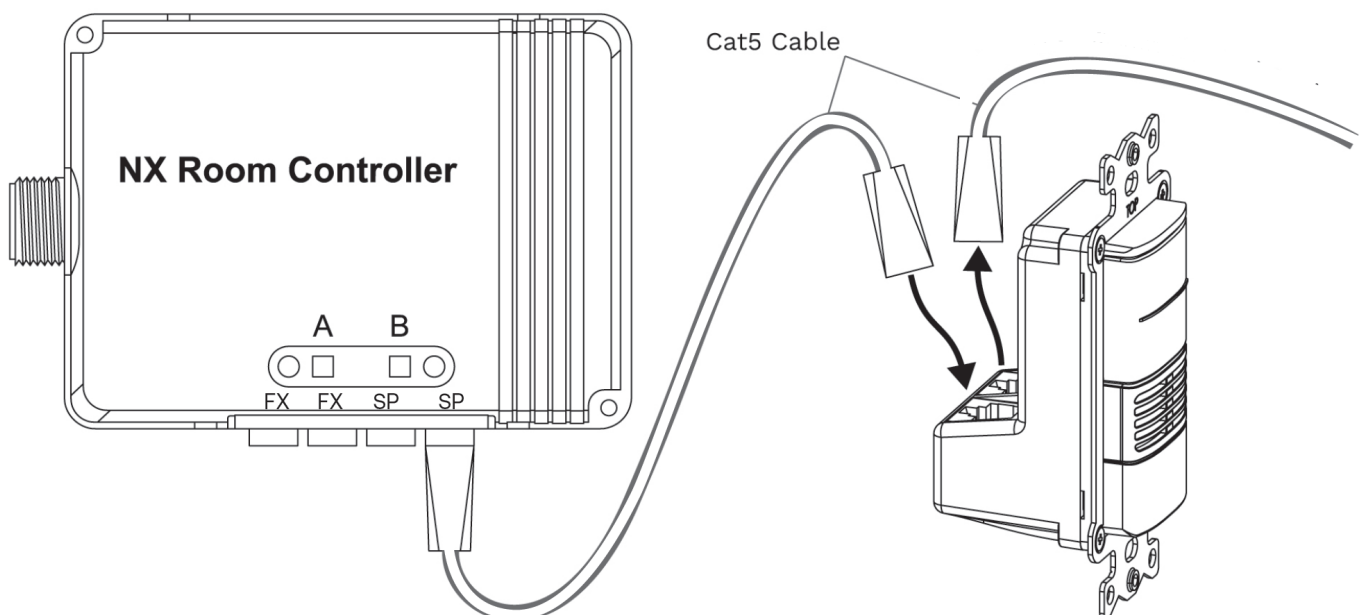
FOR SENSOR PROGRAMMING SEE QUICK STARTUP GUIDE FOR DISCOVERING AND CONFIGURING NX SMP2 SERIES SENSORS.

## DIMENSIONS

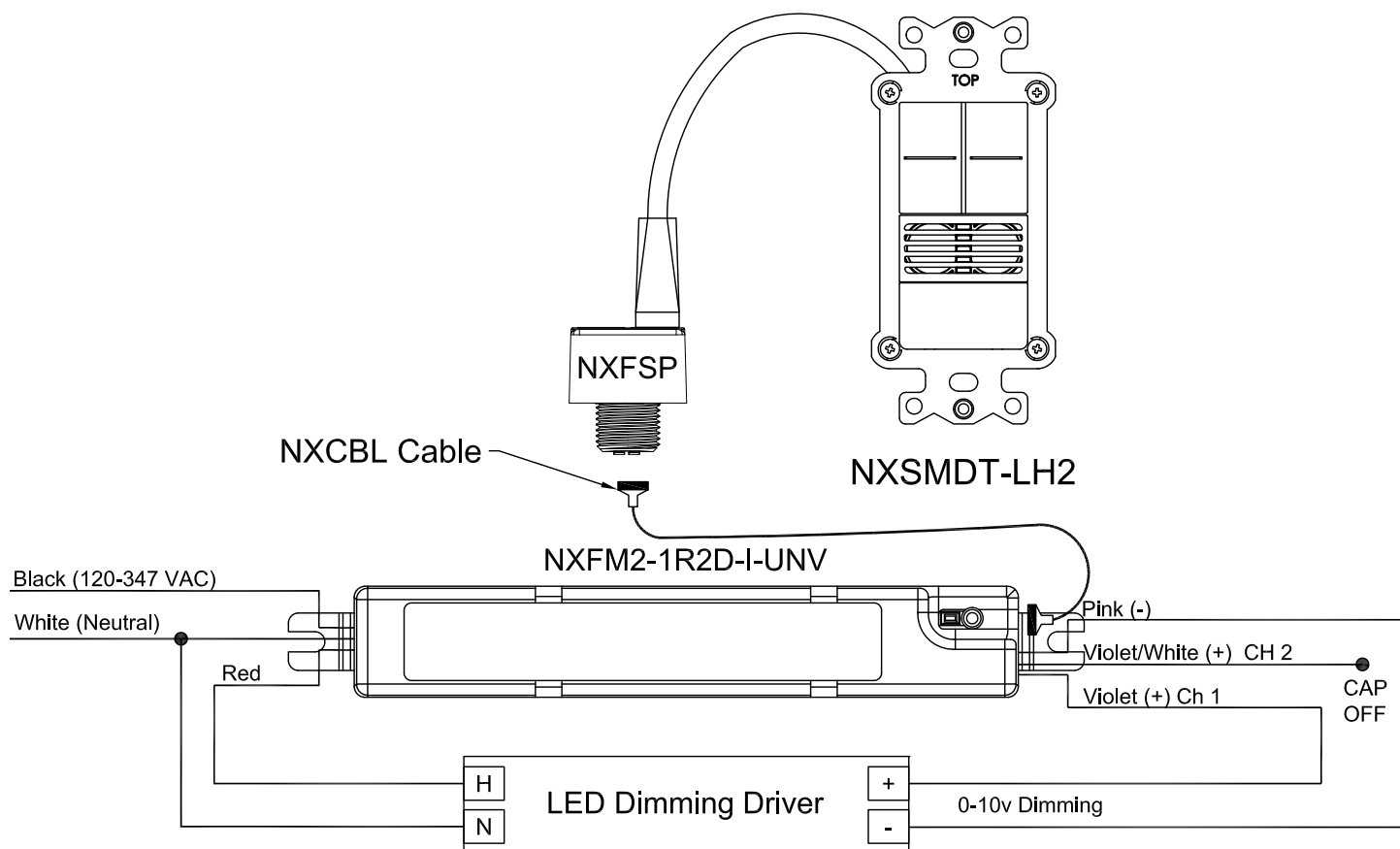


Dual tech sensor depicted

## WIRING DIAGRAM



**WIRING DIAGRAM CONTINUED**



**NX LIGHTHAWK (NXSMDT-LH2) WITH NXFM2-I FIXTURE MODULE**