# NX LIGHTING CONTROLS™

# NXSMDT Series

WALL SWITCH SENSOR – LIGHTHAWK

## FEATURES

- Digitally configurable Dual Technology Ultrasonic (US) and Passive Infrared (PIR) detection technologies

- Simple wired plug-and-play connection to NX Room Controllers and hybrid wireless connection to NX wireless enabled devices

- Integrated 2.4GHz Wireless Mesh and Bluetooth radio for easy commissioning and communication

- Fully configurable switch type functionality

- Integrated photocell for daylight harvesting application

- Device configuration through NX Lighting Controls Mobile App and NX Area Controller

- Patented IntelliSCOPE™ technology enabled providing real time visibility of motion (US and PIR) for improved accuracy of sensor sensitivity and time delay adjustments

- Five-year limited warranty



## SPECIFICATIONS

### CONSTRUCTION
- Housing: Rugged injection molded plastic, Polylac 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
- Single-gang 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 NX Room Controller (p/n NXRCFX -not included)
- Power Consumption: 40mA
- NX PBU: 5

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

### WIRELESS
- 2.4GHz: IEEE 802.15.4 based
- Bluetooth® Version V5.2
- Radio 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

### SENSOR
- Detection Technology: Passive Infrared and Ultrasonic (Selectable)
- Coverage: Adjustable up to 1,000 square feet
- LED Indicator (Red) indicates infrared motion detection
- LED Indicator (Green) indicates ultrasonic motion detection

### PROGRAMMING INTERFACE
- NX Lighting Controls Mobile App
- NX Area Controller (NXAC2) for Network Applications

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

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

## Current

# NXSMDT Series
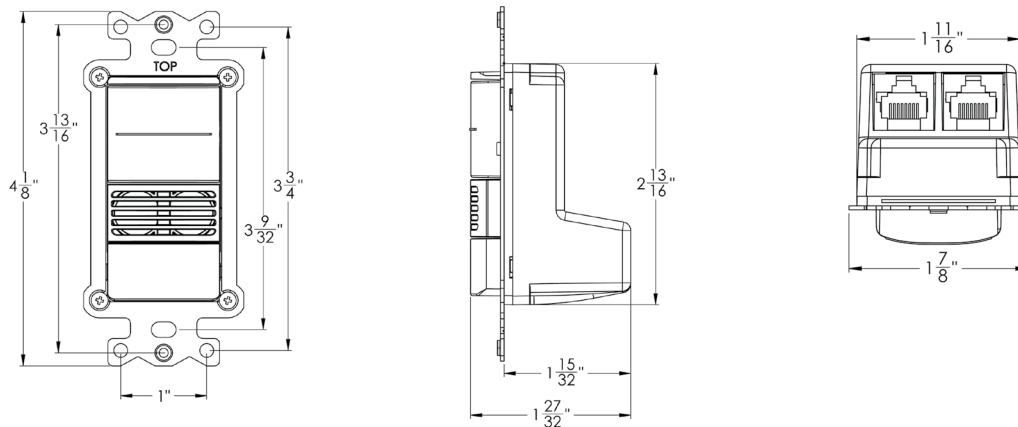
WALL SWITCH SENSOR - LIGHTHAWK

## ORDERING GUIDE

**Example:** NXSMDT-LH2-WH

CATALOG #

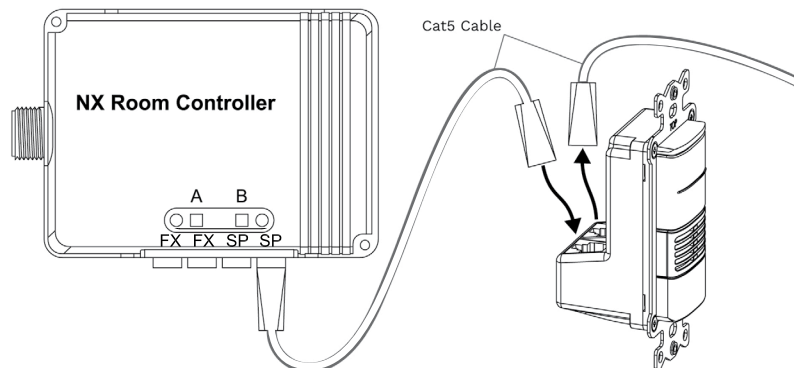| NXSMDT | – | | – | | |
|---|---|---|---|---|---|
| **Model** | | **Sensor Type** | | **Color** | |
| **NXSMDT** | NX Digital Smart Occupancy Sensor, Wall Switch, PIR and Ultrasonic, with Daylight Harvesting, Integrated Bluetooth, Dual RJ45 SmartPort | **LHO** 0 Button<br>**LH1** 1 Button<br>**LH2** 2 Button | | **WH** White<br>**BK** Black<br>**GY** Gray<br>**IV** Ivory[1]<br>**LA** Light Almond[1]<br>**RD** Red[1] | |

1 - Made to Order Options; Consult Factory for Lead Times

## DIMENSIONS



## ADDITIONAL INFORMATION

Wiring Diagrams
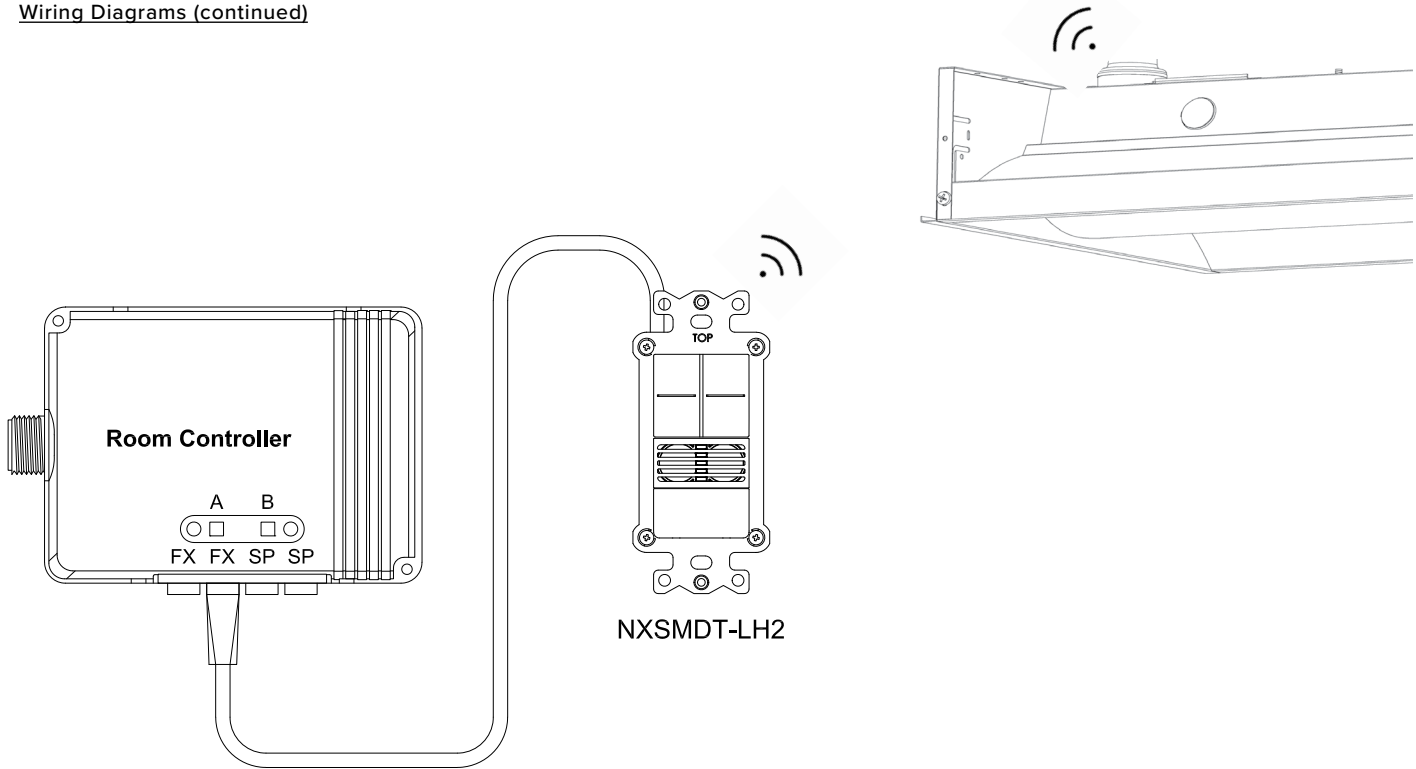


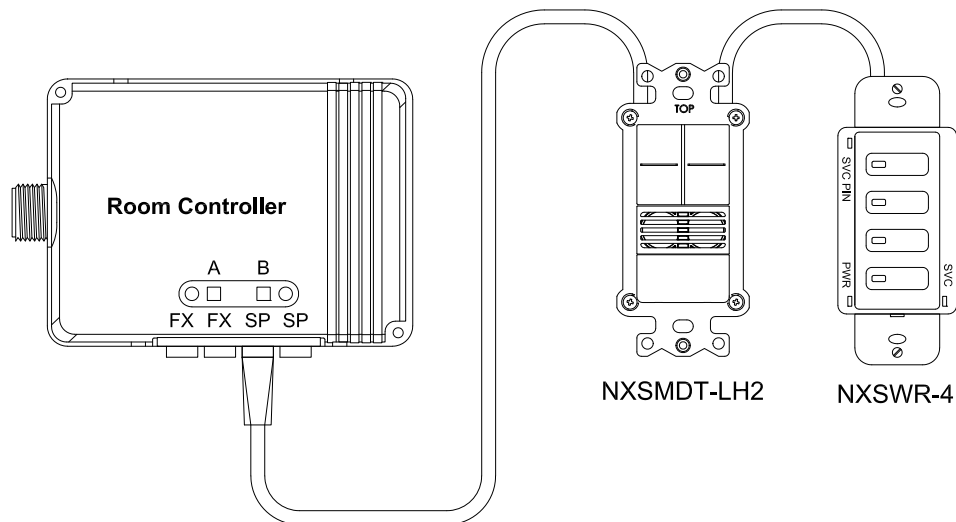**NX LightHAWK (NXSMDT-LH1) with NXRCFX2 Room Controller**

# NXSMDT Series
WALL SWITCH SENSOR - LIGHTHAWK

## ADDITIONAL INFORMATION (CONTINUED)

Wiring Diagrams (continued)



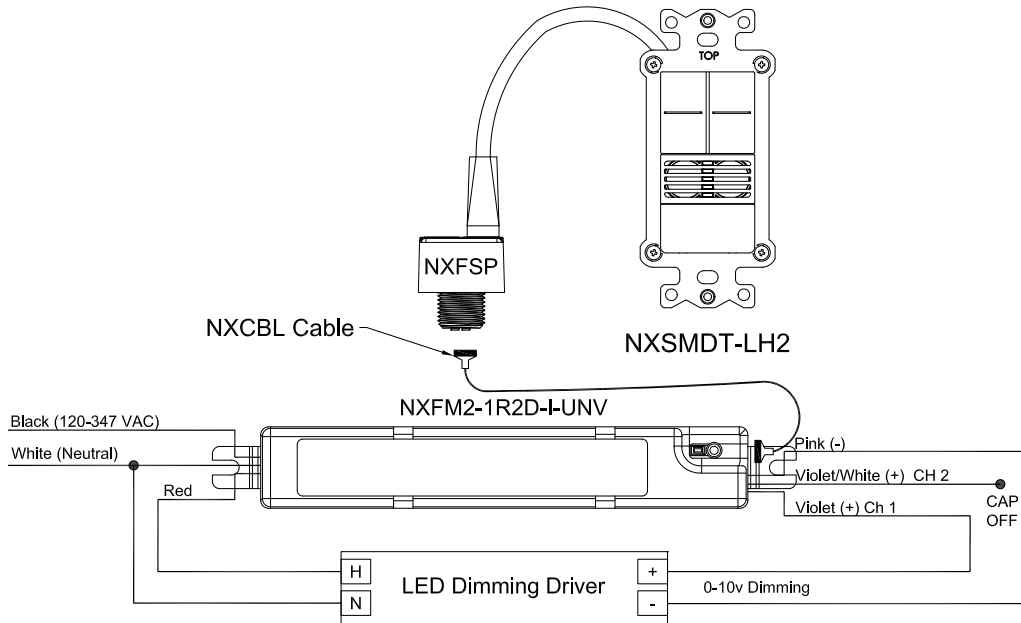**NX LightHAWK (NXSMDT-LH2) Wireless Configuration with NX Enabled Luminaires**



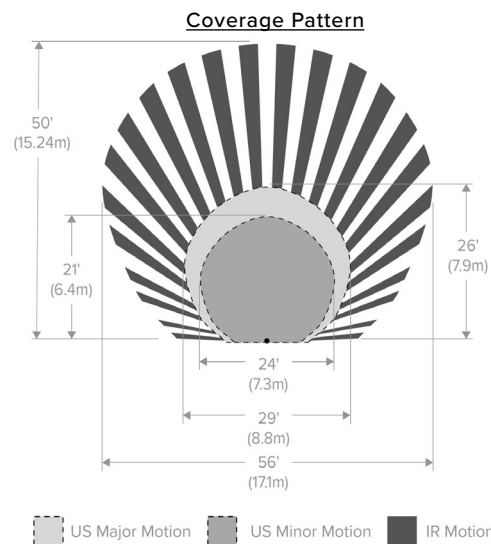**NX LightHAWK (NXSMDT-LH2) daisy chained with 4 Button NX Smart Switch**

72-00665 Rev. B

# NXSMDT Series

WALL SWITCH SENSOR - LIGHTHAWK

## ADDITIONAL INFORMATION (CONTINUED)



**NX LightHAWK (NXSMDT-LH2) with NXFM2-I Fixture Module**



**Coverage Pattern**

| US Major Motion | US Minor Motion | IR Motion |

# NXSMDT Series
INDOOR CEILING MOUNT SENSOR - OMNI

## DEFAULT AND CONFIGURABLE SENSOR SETTINGS

| Sensor Settings | Avaiable Settings | Default Settings |
|---|---|---|
| Occupancy Sensor Modes | PIR & US; PIR Only; US Only | PIR & US |
| Occupancy Sensor Sensitivity | Levels 1 (Low) - 10 (High) | PIR 7, US 7 |
| Occupancy Sensor Timeout | 1 Sec - 20 Minutes | 15 Minutes |
| Occupied When | Motion detected by PIR AND US; Motion detected by PIR OR US | Motion detected by PIR AND US |
| Unoccupied When | No motion detected by PIR AND US; No motion detected by PIR OR US | No motion detected by PIR AND US |
| Lightbar Mode | Location Indicator; Group Status; Occupancy | Location Indicator |
| Daylight Sensor Modes | Closed Loop Full Range Dimming; Closed Loop On/Off; On/Off; Disabled | Disabled |
| Bluetooth Radio Modes | Enabled; Disabled | Enabled |
| LED Status Modes | Off; Passive Infrared (Red); Ultrasonic (Green); Both Enabled | Both Enabled |
| Passcode | Enabled; Disabled | Enabled (Factory Passcode: HubbN3T!) |

## DEFAULT AND CONFIGURABLE SWITCH SETTINGS
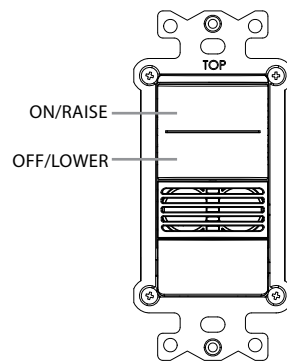


NXSMDT-LH1
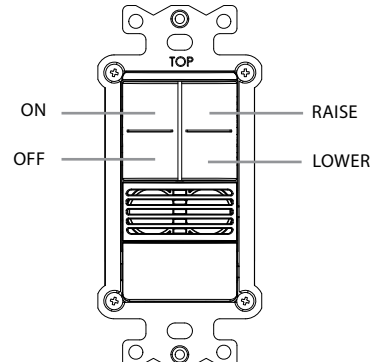
NXSMDT-LH2

# NXSMDT Series

INDOOR CEILING MOUNT SENSOR - OMNI

| Button Type | Button Function |
|---|---|
| Toggle | Group ON 100%<br>Group OFF 0% |
| RAISE On | Group ON (level configurable) |
| LOWER Off | Group OFF (level configureable) |
| Raise | Ramp Group Level Up |
| Lower | Ramp Group Level Down |
| On/Raise | Tap Group ON (configurable)<br>Press & hold while ON to ramp group level up |
| Off/Lower | Tap Group OFF (configurable)<br>Press & hold while ON to ramp group level down |

| Button Type | Button Function |
|---|---|
| Timed On | Group ON 100% (configurable)<br>Group OFF 0% at timeout (configurable) |
| Preset | Active preset scene (1-16) |
| On/Off | Group ON (level configureable)<br>Group OFF(level configurable) |
| Partition | Tap ON to combine rooms<br>Tap OFF to separate rooms |
| CCT On | Group ON to selected color |
| On/Raise/<br>Lower/Off | Group ON 100%(configurable)<br>Press & hold while ON to ramp group up<br>Release & press again to ramp group down<br>Group OFF 0% at timeout (configurable) |
| CCT Raise | Ramp group color temp up |
| CCT Lower | Ramp group color temp down |

72-00665 Rev. B