

## IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS

### PRECAUTIONS

Read and understand all instructions before beginning installation.

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

**CAUTION: RISK OF ELECTRICAL SHOCK.** Turn power off at service panel before beginning installation of device. Never wire energized electrical components.

Confirm device ratings are suitable for application prior to installation. Use of device in applications beyond its specified ratings or in applications 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 mount near gas or electric heaters.

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

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

### REGULATORY INFORMATION

1. 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.

2. **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 or more 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

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. FCC Radiation Exposure Statement:

1. 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.

5. ISED Radiation Exposure Statement – ISDE Déclaration d'exposition aux radiations:

1. 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
2. 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.

6. Purpose of control: Operating Control

- Construction of control: Plug-In Locking Type
- Type 1.C Action
- Pollution Degree 2
- Impulse Voltage: 4000 V
- SELV Level: 10 V

## DESCRIPTION

The NXOFM2 On-Fixture Module is intended to allow the installation of lighting controls to a single lighting fixture using a twist lock receptacle that is accessible external to the fixture housing. The NXOFM2 can be mounted to a NEMA C136.10/ C136.41 receptacle on a lighting fixture or junction box. The module contains a relay for on/off control, 0-10V dimming, a Bluetooth radio for programming via the NX Lighting Controls mobile app, and a 2.4GHz RF mesh radio with internal antenna. The NXOFM2 also contains an integral photocell, integral astronomical timeclock for running scheduled events, as well as an auxiliary input for external control.

## CONSTRUCTION

- Housing: UV Stable – UL 94 V-0 Rated Plastic
- Color: Gray
- Weight: 6.6 oz (187 g)
- Dimensions: 3.52" D x 4.23" H (89.5mm D x 107.5mm H)

## MOUNTING

- Mounts to standard NEMA C136.10/C136.41 receptacle

## ELECTRICAL

### Input:

- Power Supply: 120-480VAC, 50/60Hz, 10A Max
- Occupancy Sensor Input: 5-24VDC, 50mA

### Output:

- 10A, Tungsten, 120VAC
- 5A, Standard Ballast, 120–347VAC
- 5A, Electronic Ballast, 120–277VAC
- 3A, Electronic Ballast, 347VAC
- 3A, Standard Ballast, 480VAC

### Surge/In-rush:

- Surge Protection: 10kV Max
- Peak In-rush: 160A for 2ms Max

## ELECTRICAL (Continued)

### Low Voltage Output:

- 12VDC, 50mA, Isolated, and Short Circuit Protected

### Dimming:

- 0-10V, 50mA, Current Sink

### Power Metering:

- NXOFM2 is factory calibrated to provide power metering accuracy of +/- 5% (Rating assumes standard load within specified voltage and temperature rating for NXOFM2; all values provided in Watts)

## OPERATING ENVIRONMENT

- Operating Temperature: -40° to 158°F (-40° to 70°C)
- Relative Humidity (non-condensing): 0% to 95%
- IP65 Rated

## WIRELESS

- 2.4GHz: IEEE 802.15.4 based
- Bluetooth Version V5.2 (Range: up to 50ft clear line of sight)

## WIRELESS (CONTINUED)

- Radio Range: -300ft (91m) Note: Range Based on Clear Line of Sight
- Recommended Deployment Practice: Located at Least Three Radios within a 300ft Radius for Most Reliable Performance

## PROGRAMMING INTERFACE

- NX Lighting Controls Mobile App
- NX Area Controller with Site Manager (NXAC2-120-SM) for Network Applications

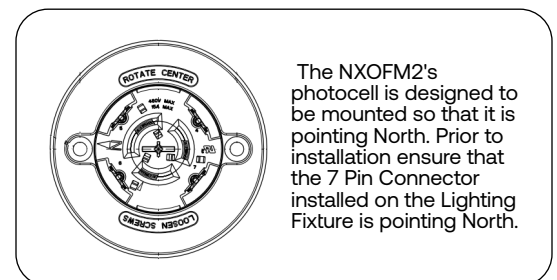
## CERTIFICATIONS

- cULus Listed
- Complies with FCC Part 15.247
- FCC ID: YH9NXOFM2
- IC: 9044A-NXOFM2

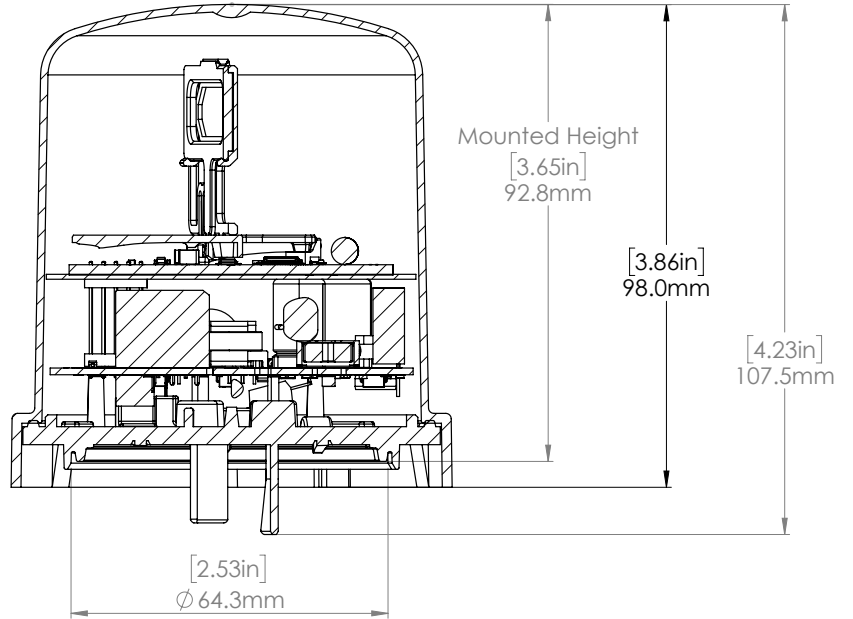
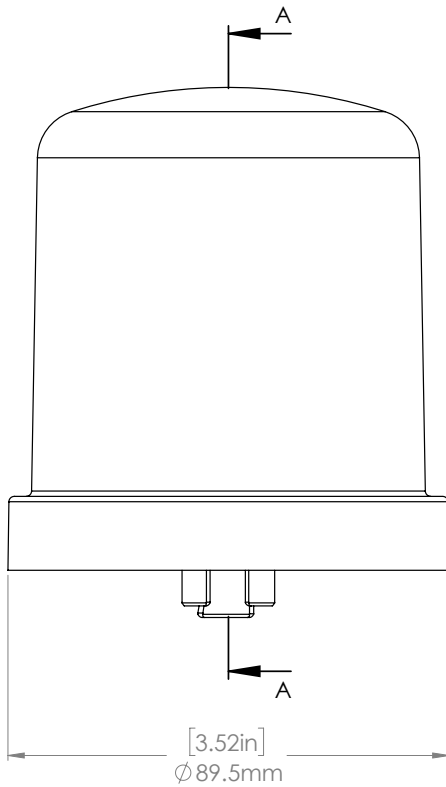
## WARRANTY

- 5 Year Limited Warranty
- See Website for Additional Information

1. If applicable, remove the lighting control device currently installed in the fixture or junction box receptacle.
2. Prior to installing the OFM2 ensure the arrow on the 7 Pin Connector is pointing to the North. If it isn't follow the directions to reposition the connector.
3. Align the On-Fixture Module such that the large contact pin is positioned above the large receptacle contact.
4. Insert the On-Fixture Module contacts completely into the receptacle contacts. Twist the On Fixture Module housing clockwise until it locks into place.
5. Ensure the on-fixture module is mounted vertically on the lighting fixture or junction box for proper operation.
6. Test the On/Off and dimming operations using the NX Lighting Controls mobile app.
7. Using the NX Lighting Controls mobile app, select the NXOFM2 you wish to connect to from the list of discovered Bluetooth enabled NX devices. Use the MAC address barcode label affixed to the unit to help identify the lighting fixture to be tested.
8. Select "Fixture Modules" from the local discovery menu.
9. Use the On/Off control to turn the lighting fixture on and off to confirm proper operation.
10. While the lighting fixture is on, use the dimmer value slider to dim the lighting fixture up and down to confirm proper operation.



**DIMENSIONS**



SECTION A-A

**WIRING DIAGRAM**

