

**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, 16mA

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.

NOTICE: Do not mount near gas or electric heaters.

NOTICE: Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

REGULATORY INFORMATION

1. FCC ID: YH9NXSMP2, IC: 9044A-NXSMP2
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.
7. 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

NXSMP2 Digital Daylight Sensor is an indoor/outdoor rated open-loop daylight sensor with a built-in time clock, designed for installation where it has clear access to direct sunlight (e.g., indoors – near multiple windows). The DDSO measures direct-sunlight illuminance in foot-candles and is used to build the daylight-harvesting calculation for internal rooms or determine light requirements to trigger outdoor lighting scenarios. The DDSO includes a wireless 2.4 GHz and integral Bluetooth radio for ladder-less programming from a mobile device and for wireless mesh-network device communication.

SPECIFICATIONS

CONSTRUCTION

- Housing: ABS (UL 94, 5VA) Flame Class Rating, UV Inhibitors
- Color: White
- 3.2 oz (90.7g)
- Overall Dimensions:
1.84" (46.74mm) H x 1.64" (41.64mm) W
- Mounting Barrel:
1.31" (33.27mm) H x 1.18" (29.97mm) W
- Plenum rated
- Rated for both Indoor and Outdoor use

MOUNTING

- Mounts directly through a 1.2" diameter aperture, secured by supplied nut on threaded housing

OPERATING ENVIRONMENT

- Rated for Indoor & Outdoor Use
- Operating temperature: 32° to 149°F
(0° to 65°C)
- Relative humidity (non-condensing)
0% to 95%

ELECTRICAL

Input:

- Voltage: 12-24VDC supplied by NX Room Controller or NXP2 Panel
- Power Consumption: ~3 PBU

WIRELESS

- 2.4GHz: IEEE 802.15.4 Mesh Network
- Range:
- (Indoor: Up to 100ft – Clear Line of Sight)
- (Outdoor: Up to 100ft – Clear Line of Sight)
- Bluetooth® Version V5.2
- (Range: Up to 50ft – Clear Line of Sight)

SENSORS

- Detection Technology: Daylight Sensor
- Daylight Sensor Sensitivity: 1–300 fc
- Daylight Sensor Field of View:
Vertical: 10–60°
Horizontal: 90°

PROGRAMMING INTERFACE

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

CERTIFICATIONS

- cULus Listed
- Complies with FCC Part 15.247
 - FCC ID: YH9NXSMP2
 - IC: 9044A-NXSMP2

WARRANTY

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

PASSWORD

- Default: Curr3nt!

FOR SENSOR PROGRAMMING SEE NX CONTROL APP QUICK STARTUP GUIDE FOR DISCOVERING AND CONFIGURING SENSORS.

INSTALLATION INSTRUCTIONS

Indoor Placement and Mounting:

The NXDDSO can be mounted to the ceiling, wall or skylight. The sensor has a 90 degree horizontal field of view and 60 degree Vertical field of view (see Figure 1). It should be placed with the sensor window directly facing the source of sunlight no more than 2-4 feet away.

Note: Peak sensitivity is achieved when sensor is placed at a 45-degree angle to window (See Figure 1). For Skylight mounting place the DDSO facing up toward the skylight (See Figure 3).

Outdoor Placement and Mouning:

When mounting outdoors the NXDDSO needs to be placed on blank faceplate with a 1 1/4" hole drilled in to accept the DDSO Neck. The faceplate must be placed on a sealed outdoor rated J-Box.

If the Wireless Mesh radio is to be used the NXDDSO must be mounted under an eave so that the radio is in the proper orientation. Place the J-Box on the North Side of the building as close to the edge as possible to avoid any shadows. (See Figure 4)

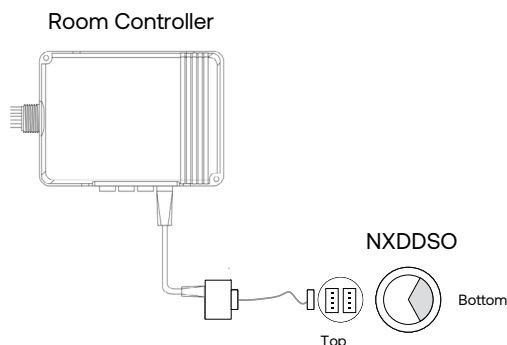
Otherwise, the NXDDSO can be mounted on an outside wall or roof top. If mounted on the rooftop it should have clear visibility of the eastern sky to best be exposed to the path of the sun throughout the day.

If mounting on a wall the NXDDSO should be on the North side of the building with visibility to the eastern sky.

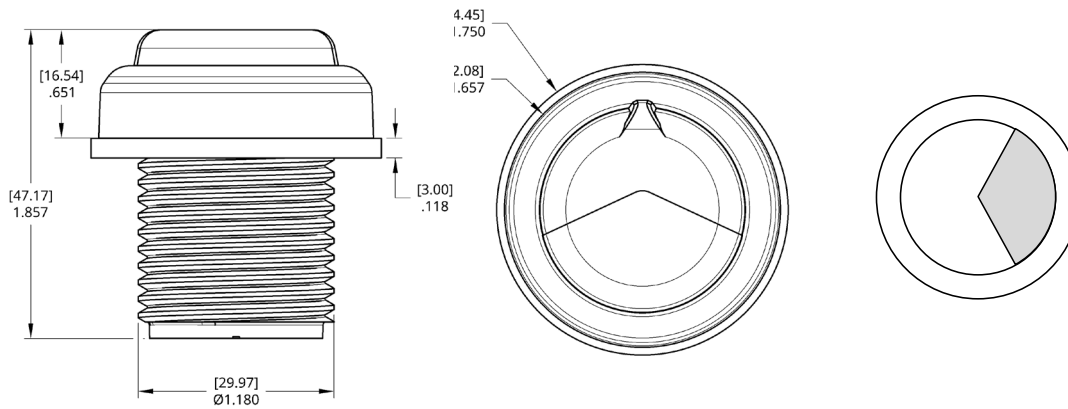
Be careful of shadows when mounting on or near overhangs, or trees. Also be aware of excessive ambient light caused by wall mounted lights.

1. Once placement has been established make sure that a hole 1.2" in diameter has been cut into the ceiling tile or cover of the watertight outdoor J-Box.
2. Remove the screw-on nut from the neck of the NXDDSO and insert into the hole, replace the nut and hand tighten.
3. Use the included NXCBL-P2 cable assembly and attach the mini-Smart Port Connector onto one of the matching connectors in the neck of the NXDDSO.
4. Connect a CAT5 patch cable from the SP Port of the Room Controller or the NXP2 Panel and plug into either one of the female RJ-45's. The other RJ-45 acts as a passthrough for the FX Bus. (See Wiring Diagram)

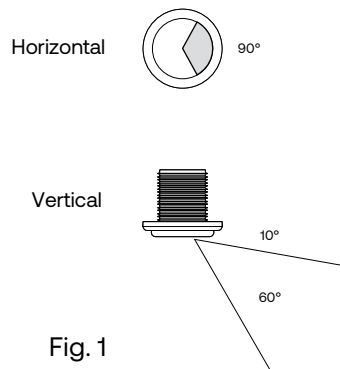
WIRING DIAGRAM



DIMENSIONS

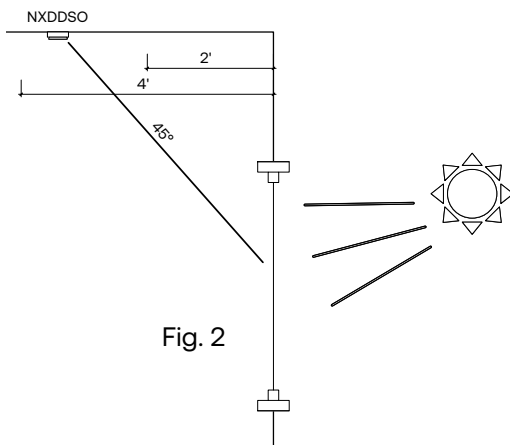


DAYLIGHT SENSOR FIELD OF VIEW

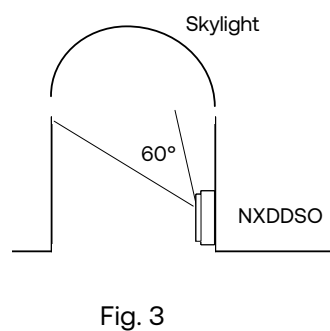


MOUNTING DETAIL

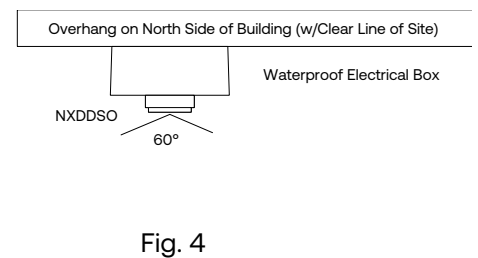
INDOOR PLACEMENT



SKYLIGHT PLACEMENT



OVERHANG PLACEMENT



DEFAULT SETTINGS

Bluetooth®	Enabled
2.4GHz Wireless Mesh	Enabled
Passcode	Enabled (Factory Passcode: Curr3nt!)