CoreSync Advanced Sensor

molex

4 pole Micro-fit 3.0 connector

For CoreSync Bus
42-57 VDC + RS485 Data line

| Order No.	Description
1820891000	CoreSync Advanced RGBW Indicator, White
1820891001	CoreSync Advanced RGBW Indicator, Black
1820892000	CoreSync Adv Lighting Sensor, Std White
1820892001	CoreSync Adv Lighting Sensor, Std Black
1820893000	CoreSync Adv Environmental Sensor, White
1820893001	CoreSync Adv Environmental Sensor, Black

1. CAUTION AND WARNING

- **CAUTION** – Observe precautions for handling electrostatic sensitive devices.

- **WARRANTY** – Voided if device has been modified from its original configuration or in the event of hot plug/hot swap.

- **WARNING** – Risk of Electric Shock. Do not handle energized module with wet hands or when standing on wet or damp surfaces.

- **DO NOT** DISASSEMBLE THE ADVANCED SENSOR

- **DO NOT** connect the CoreSync Harness when Gateway is energized

- **DO NOT** handle energized unit with wet hands or when standing on wet or damp surfaces.

- Risk of electric shock.

- **DO NOT** use in elevated temperature environment – more than 50℃

- **DO NOT** use Outdoors

- Use only with Class 2 Power Unit – 60VDC Max.

- Conforms to UL916 Standard - Certified to CSA standard C22.2 NO. 250. For CSA, device is intended to be installed in a restricted access area.

- Input: PoE voltage range of 42-57V Only to be used with CoreSync System

ADVANCED SENSORS MUST BE INSTALLED BY A CORESYNC CERTIFIED TECHNICIAN AND QUALIFIED ELECTRICIAN (CHECK WITH LOCAL AND NATIONAL CODES FOR PROPER INSTALLATION)

2. Procedures

Step 1. Advanced Sensor onto a desired ceiling type. There are 3 different types of advanced sensors (Beacon, Lighting, and AQ), however all follow the same mounting procedure. The user has two options for mounting style: Panel Mount and Bracket Mount as seen below.
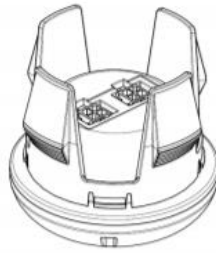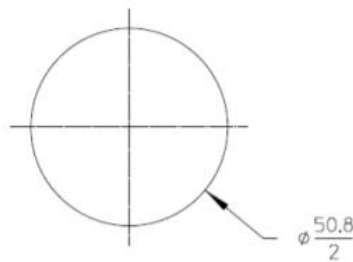

Sensor with the flush mount hardware

Sensor with the bracket mount hardware

Step 2. Panel Mount
1. When using the surface mount option, connect the sensor to the mounting hardware before pushing to ceiling.
2. A 2" clearance hole must be drilled out of the desired ceiling.

$\phi \dfrac{50.8}{2}$

Surface mounting clearance hole

3. Once the hole has been created, snap in the wire harness 4ckt male connector into the 4ckt female connector as seen below. The connector from the Gateway side must plug into the INPUT connector:

INPUT
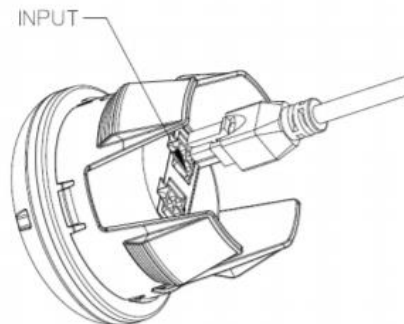
4. The surface mount bracket has been designed to be universal and fit into any type of ceiling material. Ceiling tiles are typically made with mineral wool, fiberglass, gypsum, perlite, clay, cellulose, or starch. Ceiling made from fiber glass, or similar material, needs to have a minimum thickness of **5/8"**. Drywall thickness can vary between **1/2"** and **5/8"** to be compatible with bracket. If sheet metal is used, metal thickness cannot exceed **1.5mm.**
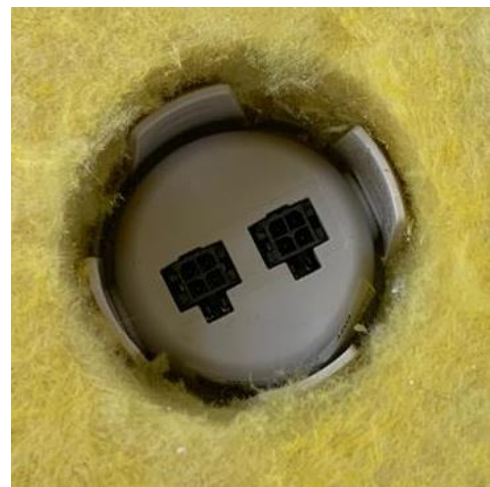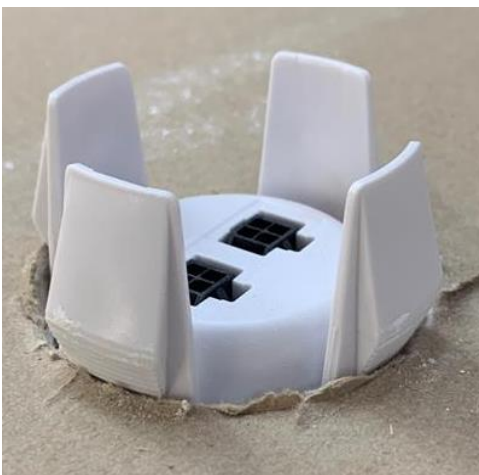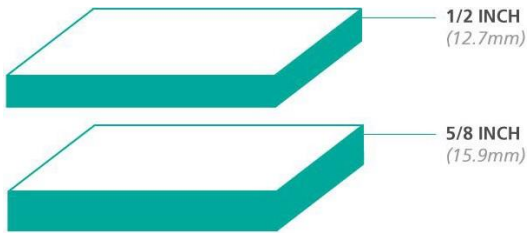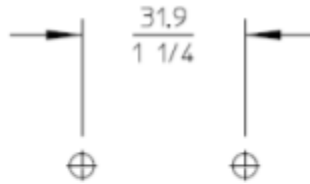
Step 2a. Bracket Mount

1. When using the bracket mount option, screw the bracket (screws and anchors) into the surface first before connecting the sensor to the mounting bracket.

2. If using the bracket mount version, two holes with a maximum diameter of **3/16"** must be drilled out of desired surface. These two holes must be **1 ¼"** away from each other.

**Bracket mount
hole pattern**

3. Once the holes have been created and bracket has been mounted, snap in the wire harness 4ckt male connector into the 4ckt female connector as seen below. The connector from the Gateway side must plug into the INPUT connector:
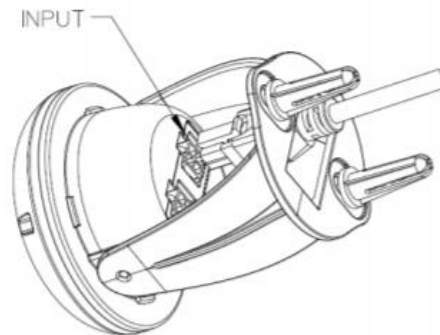
Step 3 The other end of the wire harness goes into the Gateway or the previous daisy-chain device's output port. The Gateway is supplied separately.

4.   CALCULATING MAX CONNECTED DEVICES PER PORT:

The IEEE 802.3bt standard guarantees at least 71.3W at the input of the Gateway. Using this number and the max power consumption of 3.5W for this gateway, provides 67.8W of connected devices. Please use individual data sheets of the connected devices in tandem with the CoreSync Harness Length Calculator to determine the maximum power consumption. For further details please refer to the CoreSync Academy Module "Device Layout & Design Overview".

- LEGAL DISCLAIMER -

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