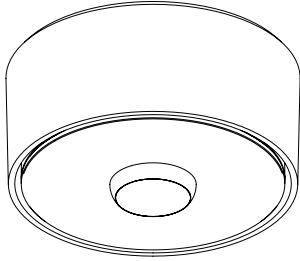


Node Enlighted Sensor

The Node Enlighted sensor detects occupancy, daylight, and other parameters as part of an Enlighted control system. Designed to be visually consistent with the Node product range, the Node Enlighted sensor captures and processes data locally and transmitted over the Enlighted network.



Product Features

- Detection of occupancy, daylight, and other Internet of Things (IoT) data
- Easy to install
- Seamless integration with Enlighted Sensor Interface, localized lighting control
- Available in various finishes

Specifications

	Diameter	Height	Protrusion
Surface Mount	90 mm/3.54 in.	40 mm/1.57 in.	8 mm/0.30 in.
Recessed Channel	90 mm/3.54 in.	58 mm/2.28 in.	8 mm/0.30 in.
Trimless Mount	90 mm/3.54 in.	38.5 mm/1.52 in.	8 mm/0.30 in.
Flush Channel	90 mm/3.54 in.	40 mm/1.57 in.	8 mm/0.30 in.

Enlighted Systems Integration

- Enlighted Sensor Interface (ESI)
 - IoT Ready™ LED drivers and Enlighted Control Units communicate with the sensor directly via a serial interface. The ESI provides access to device information, energy consumption, and digital lighting control.
- Tunable White
 - Dual channel control supports tunable white fixtures, enabling color transitions based on time of day or user control.
- Room and Zone Control
 - Pairs with room control switches for code-compliant manual-on or auto-off capability. Sensors can be grouped into zones that share occupancy sensing data and coordinate light control based on detected motion.

Localized Lighting Control

- Light-level schedules, preferences, and behavior profiles for each fixture are wirelessly communicated during system setup and locally stored to ensure continuous operation.

Edge Sensing

- Local processing capability supports advanced sensing and detection algorithms, providing optimization of existing features and enabling future applications.

Daylight Harvesting

- Captured ambient light information is locally processed to raise and lower light levels based on available daylight.

Data Privacy

- The sensor captures occupancy data in the sensor coverage area. The sensor cannot directly reference or identify any natural person.

Driver Compatibility

- Dimming and on/off control signaling for standard 0-10V ballasts and drivers using linear dimming curve for LED and fluorescent light fixtures.

General

- Motion Sensing: Digital Passive IR
- Photosensor: Light Pipe/Photosensor Array Enclosure: ABS/Polycarbonate blend
- Type: Closed Loop Light Sensor
- Operating Temp: 32° to 122° F / 0° to 50° C
- Operating Humidity: 0 to 85% RH, non-condensing Power Consumption: 200 mW max.
- Voltage: 12-30 V
- Connection type: Enlighted 8-pin wire
- Two Dimming Outputs: 10mA source/sink each

Wireless

- Wireless Standards: IEEE 802.15.4
- Bluetooth 4.0 Low Energy (BLE)
- Radio Frequency: 2400-2483.5 MHz
- Wireless Range: 150 ft. (46 m) radius open range
Encryption: AES-128

Certification

- UL Plenum Rated
- Europe
- United States
- Canada



Communication Protocol

- Enlighted
 - IoT = IoT Node
 - CL = Connected Lighting
 - IL = Independent Lighting/Enlighted One
- Default: Enlighted Connected LightingIoT and IL available on request

Range

The Node Enlighted Sensor incorporates an optical Fresnel lens that works with the digital Passive Infrared (PIR) sensor to detect occupancy and motion. The multifaceted lens focuses light onto the PIR to produce an all-encompassing field of view through aggregation of many narrow fields of view.

Ceiling Height	Minor Motion (Radius)	Major Motion (Radius)
8.5 ft/2.6 m	8 ft/2.4 m	10 ft/3.0 m
15 ft/4.6 m	10 ft/3.0 m	18 ft/5.5 m

