

# Intellect™ Sensor Head Module

## Use with Intellect Integrated Fixture Control System



### Description

The Leviton Intellect Sensor Head Module (SHM) is designed to be mounted directly into lighting fixtures for use in an Intellect Intelligent Fixture Control System. The SHM integrates PIR occupancy sensing and photocell technology in a single compact unit. Integrate with downlights, track fixtures and other general lighting to create an advanced intelligent lighting system that complies with energy codes.

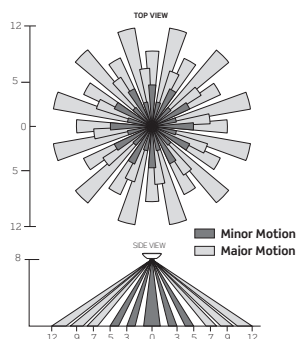
The Leviton Intellect Integrated Fixture Control System is made up of three interchangeable components. A range of options are available to meet the specific needs of each lighting fixture type:

- **Sensor Control Module**—wirelessly communicates to all other wireless devices within the room
- **Power Control Module**—receives commands from the Sensor Control Module and provides relay power control
- **Keypad Room Controller**—acts as the primary user interface and coordinates all the functions within the room; provides the Bluetooth® interface for connection to the Intellect App

### App Configuration

Fixtures are wirelessly configured, monitored and controlled as part of the system they are connected to using that system's configuration app which operates on an Android or iOS device.

### Field of View Diagram



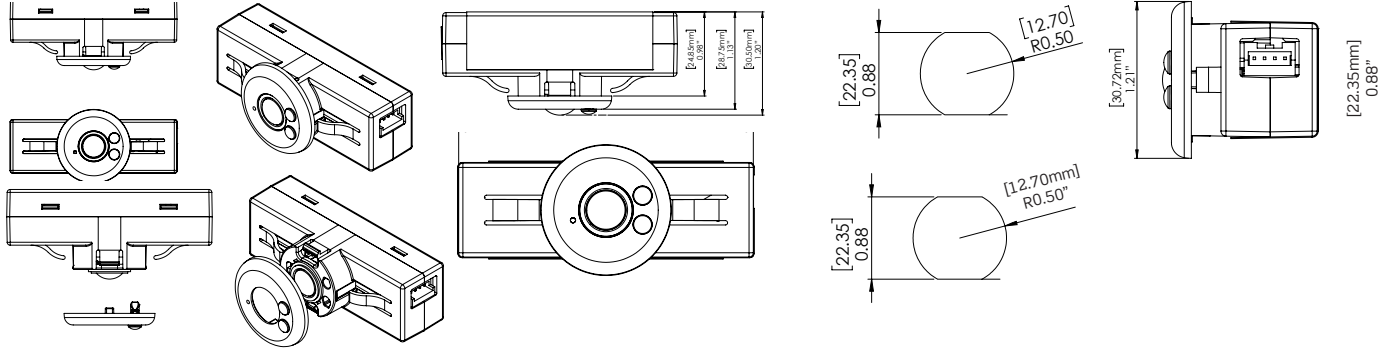
### Applications

- Integrating wireless occupancy, vacancy and light level sensing technology into fixtures
- Wireless lighting control systems
- Intelligent fixture control
- Creating Intellect-enabled light fixtures
- Integrated, intelligent fixture controls
- Primary fixture types: downlights, linear fixtures with deep cavities (direct/indirect, cylinders)
- Luminaire level lighting control

### Features

- Occupancy and vacancy detection: PIR sensor, spacing to mounting height of 1:1 up to 12'
- Light level detection: light sensor (photocell)
- Diagnostic LEDs: may be disabled
- Integrated factory default and test button
- Connects to any Intellect Power Control Module
- Removable sensor cap for field painting to match environment; arrives white from factory
- Installs into any 1"x0.88" Double D mounting hole
- Fully digital sensors, configurable across network
  - Sensitivity
  - Time out
  - Lighting target level
  - Occupancy/vacancy mode
  - Exclude sensor
- See system data sheet for full features
- Test switch under removable cap for toggling load ON/OFF, factory default, and pushbutton pairing when other methods are unavailable
- Intellect products are listed on the DesignLights Consortium® (DLC) Qualified Product List (QPL) when used as part of a GreenMAX DRC System

### Sensor Head Diagrams



### Specifications

Electrical	
Power Input	Powered from Intellect Power Control Module
Wireless	Wireless RF, IEEE 802.15.4, 2.4 GHz mesh network
Range	Up to 75' between nodes
Environmental	
Operating Temperature Range	32° to 122° F (0° to 50° C)
Storage Temperature Range	-4° to 185° F (-20° to 85° C)
Relative Humidity	0 to 90% non-condensing, for indoor use only
Mounting Height	8-12'
Other	
Intellect System Energy Codes	Can be used to comply with IECC, ASHRAE 90.1 and 2022 Title 24, Part 6 dimming, occupancy/vacancy sensing and daylight harvesting requirements
Intellect System Listings	UL/cUL Listed, UL924, NOM Certified, RoHS 2 Compliant, and IEC 61000-4-2, Complies with IEEE 802.15.4, UL916 standard for energy management equipment, UL2043 for plenum rated, CE, listed on the DesignLights Consortium® (DLC) Qualified Product List (QPL) when used as part of a GreenMAX DRC System
Radio Certifications	FCC certified for wireless communication (U.S.), FCC ID: 2473A-PVDIM, IC Certified (Canada), IC ID: 2473A-PVDIM
Warranty	Limited 5-Year

### Ordering Information

Intellect PIR Sensor Head Module	
Cat. No.	Description
002-ZL00J -T0W	Intellect PIR Sensor Head Module with double-D mount inside fixture. Requires Intellect Power Control Module. White finish with white paintable trim ring, (30) pack
003-ZL00J -T0W	Intellect PIR Sensor Head Module with double-D mount inside fixture. Requires Intellect Power Control Module. White finish with white paintable trim ring, (1) pack
ZLAEX-012	Extension Cable, for use between Intellect Sensor and Intellect Power Control Module, 12"
ZLAEX-018	Extension Cable, for use between Intellect Sensor and Intellect Power Control Module, 18"
ZLAEX-024	Extension Cable, for use between Intellect Sensor and Intellect Power Control Module, 24"
ZLAEX-030	Extension Cable, for use between Intellect Sensor and Intellect Power Control Module, 30"
ZLAEX-H18	High temperature extension cable, 221° F (105° C), 18"
ZLAEX-H48	High temperature extension cable, 221° F (105° C), 48"
ZLAEX-H96	High temperature extension cable, 221° F (105° C), 96"

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Visit our Website at: [www.leviton.com/intellect](http://www.leviton.com/intellect)

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