Surface Mount Sensor

O SPECIFICATION

The Enlighted Surface Mount Sensor is designed for indoor applications with high ceilings such as warehouses, atriums, and manufacturing facilities. Integrated sensors capture data that is both processed locally and transmitted over the Enlighted network, enabling a full suite of applications. In addition, the sensor supports Bluetooth[®] Low Energy communication with tags and other BLE devices.

OVERVIEW

The Surface Mount Sensor is a complete sensing and lighting control node powered from its attached light fixture. Sensor information combined with a configurable behavior profile makes the Surface Mount Sensor an integral component of an intelligent lighting control and sensing solution. With integrated wireless communications for data transmission and remote configuration as well as autonomous fixture-level control, this sensor brings advanced lighting automation to a whole new level.

FEATURES AND BENEFITS

Enlighted Sensor Interface (ESI): IoT ReadyTM 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.

Localized Lighting Control: Light-level schedules, preferences, and profiles for each fixture are wirelessly communicated at system setup and stored for continuous operation.

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

Bluetooth Low Energy: An embedded BLE radio allows the sensor to receive and transmit beacons as well as support communication with lighting control devices and other sensors.

Occupancy and Thermal Sensing: A digital Passive Infrared (PIR) sensor combined with ambient and temperature sensing support motion identification while minimizing false detection events.

Tunable White: Dual channel control supports tunable white fixtures, enabling color transitions based on time of day or user control.

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

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.

IoT Sensing Node: When configured as an IoT Node, the sensor streams comprehensive live data for use with Enlighted's real-time location and analytics software applications. This option is available directly from the factory or as a remote upgrade.

Standards-Based Networking and Security: The Enlighted 802.15.4 wireless network with AES-128 encryption delivers secure, reliable communication that coexists with Wi-Fi networks by sensing low-traffic channels and transmitting in bursts.

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 in LED and fluorescent fixtures.

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The Enlighted Surface Mount Sensor

L	3.46"	88 mm	
W	3.46"	88 mm	
Н	1.18"	30 mm	

ENLIGHTED SPECIFICATION SUBMITTAL

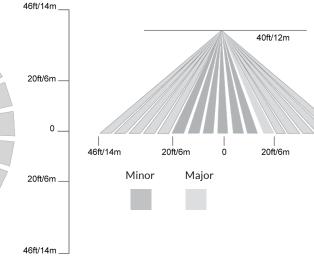
Job Name:		
Job Number:		
Product Codes:		
SU-5S-H-[IoT/CL/IL]		
SU-CL-IoT-UPG		
SU-IL-IoT-UPG		
CPL-RJ45		
CBL-RJ45-RJ45-7F		
CBL-RJ45-5W-7F		
BTTN-SU-2-00		
BRKT-SU-2-00		

SENSOR COVERAGE PATTERNS

The Enlighted Surface Mount Sensor incorporates an optical Fresnel lens that works with the many narrow fields of view. When the Surface Mount Sensor is deployed as recommended, the area covered by each sensor overlaps, reinforcing coverage and accuracy across the entire floor plan.

Ceiling Height	Minor Motion (Radius)	Major Motion (Radius)
20 ft/6 m	10 ft/3 m	23 ft/7 m
40 ft/12 m	20 ft/6 m	46 ft/14 m





Side View

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

Surface Mount Sensor

MOUNTING

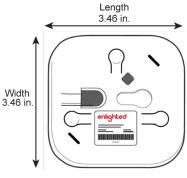
The Surface Mount Sensor comes with a nylon threaded screw for mounting in acoustical tile or drywall ceilings. Pendant button mount and flat metal bracket mount options are available separately.

ORDERING INFORMATION **TECHNICAL SPECIFICATIONS** COMPLIANCE Motion Sensing: Digital Passive IR Surface Mount Sensor SU-5S-H-xxx* Europe (*see Product codes) (h) Photosensor: Light Pipe/Photosensor Array United States FC SU-CL-IoT-UPG Connected Lighting to IoT Enclosure: Recyclable ABS Canada <u>ب</u>0، Sensor Upgrade Type: Closed Loop Light Sensor SU-IL-IoT-UPG Independent Lighting to IoT Operating Temp: 32° to 122° F/0° to 50° C WARRANTY: 5 years Sensor Upgrade View www.enlightedinc.com/limited-warranty-terms Max. Install Height: 50 ft/15.25 m CPL-RJ45 Female RJ45 Coupler for complete terms and conditions Wireless Standards: IEEE 802.15.4 CBL-RJ45-RJ45-7F 7 foot Sensor Cable for CU-4 Bluetooth 4.0 Low Energy (BLE) and IoT Ready[™] drivers *Product Codes: XXX Radio Frequency: 2400-2483.5 MHz IoT = IoT Node CBL-RJ45-5W-7F 7 foot Profile 0 Driver Cable Wireless Range: 150 ft. (46 m) radius open range CL = Connected Lighting BTTN-SU-2-00 Pendant Button Mount Encryption: AES-128 IL = Independent Lighting/Enlighted One BRKT-SU-2-00 Bracket Mount Two Dimming Outputs: 10mA source/sink each

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46ft/14m