

MOTION SENSOR OVERVIEW



TITLE
24



HIGH/LOW/OFF PIR OUTDOOR MOTION/PHOTO SENSOR IN IP66 ENCLOSURE

THE FSP-211B sensor provide multi-level control based on motion and/or daylight contribution. They control 0-10 VDC LED drivers, with an FSP-Lx Lens, are rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.

The FSP-2x1B family is available in three configurations for mounting inside a fixture, operates single phase at 120V/240V/277V. No power pack is required.

- **The sensor is ideal for areas such as parking facilities, pedestrian pathways, bike path and residential streets.**
- **A choice of three lenses ensures complete coverage for mounting heights up to 40'.**

BENEFITS

- Monetary economy on energy consumption
- Extends life of LEDs

FEATURES

- Meets California Title 24 Code
- Provides line voltage On/Off switching and 0-10VDC dimming control
- Works with LED drivers
- High and low modes fully adjustable from 0 to 10V
- Time delay from 5 to 30 minutes
- Optional cut off delay
- Adjustable ramp up and fade down times
- Optional daylighting setpoints feature automatic calibration, or permit manual adjustment
- Polycarbonate construction; flame retardant, UV resistant, impact resistant, recyclable
- UL244A and UL508; IP66 rated (when fully assembled and installed) for use in wet locations
- This product meets the materials restrictions of RoHS
- Automatic light dimming at night (Photocell)
- Independent light parameters
- Factory default lighting parameters done by LUMCA (optional remote control for on-site programming)

TITLE 24 COMPLIANT

LUMCA DEFAULT SET UP

High Mode	10 Volts
Low Mode	3 Volts ¹
Time Delay	15 Min ²
Cut Off	Dis
Setpoint	15
Ramp Up	Dis
Fade Down	Dis
Photocell	30

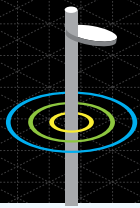
*1 Requirements of outdoor lighting standard - Minimum controls requirement: 50% § 130.2 ©

*2 Requirements of outdoor lighting standard - Controls requires to dimme the lighting at maximum of 15 minutes after a non movement detection of 50% § 130.2 ©

*3 Standard requirements: do not control over 1500W of lighting with a single motion detector.

If a time base parameter is not required by the customer, the default parameter standard must be from midnight to 6h AM .

* **California Energy Commission** - 2019 Building Energy Efficiency Standards for Residential and Nonresidential Buildings.



MOTION SENSOR SPECIFICATIONS



TITLE 24

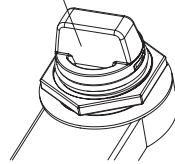
THE FSP-211B is an IP66 rated motion sensor that dims lighting from high to low based on movement. Three configurations are available. The FSP-211B mounts inside the fixture and the PIR lens connect to the FSP-211B through a 1.30" diameter hole in the bottom of the fixture. The sensor uses passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Once the sensor stops detecting movement and the time delay elapses, lights will go from high to low mode and eventually to an OFF position if it is desired. Sensors must directly "see" motion of a person or moving object to detect them, so careful consideration must be given to sensor luminaire placement and lens selection. Avoid placing the sensor where obstructions may block the sensor's line of sight.

SPECIFICATIONS

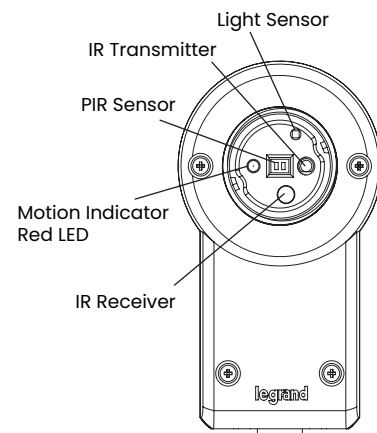
- Input voltage: 120/277VAC; 50/60Hz
- Load ratings:
 - 120VAC 0-800W LED driver; 1/6hp motor
 - 230-240V 0-300W LED driver
 - 277VAC 0-1200W LED driver; 1/6hp motor
- Relay life rating:
 - 200,000 cycles (120/277VAC)
 - 50,000 cycles (230VAC)
- Sensitivity: none, low, med, max; default max
- Lead length: 30" (76 cm)
- Operating temperature:
 - 40 to 167°F
 - (-40 to 75°C)
- UL and cUL listed (E101196)
- Five year warranty

FSP-211B SENSOR MODULE

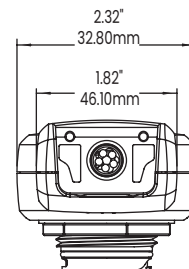
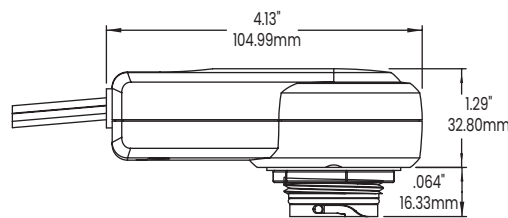
Sensor Protection Cap



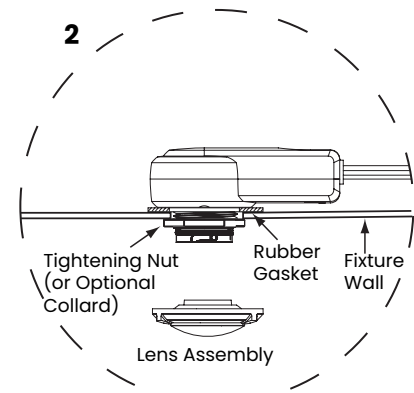
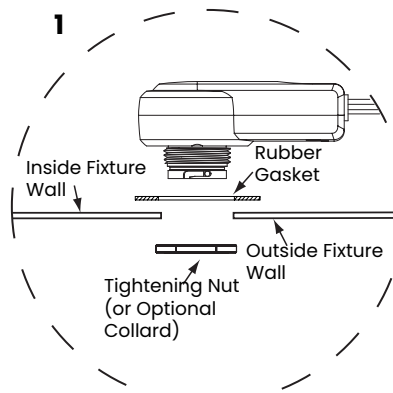
Note: Remove Cap before use

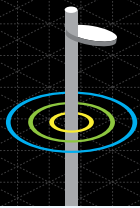


DIMENSIONS



INSTALLATION





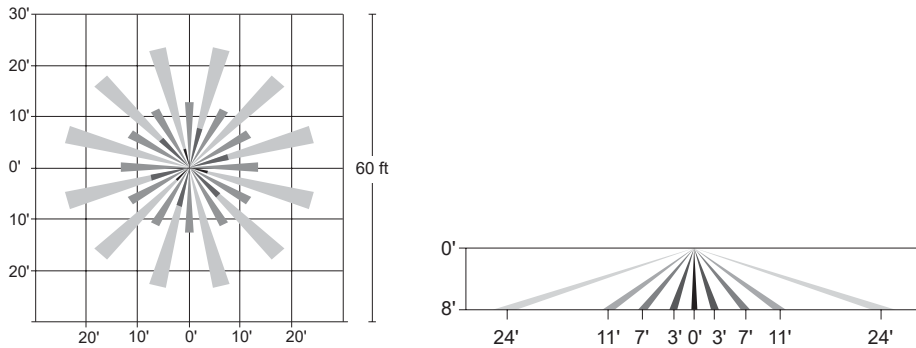
MOTION SENSOR COVERAGE PATTERNS



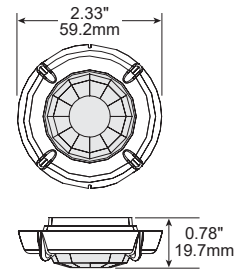
TITLE
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THE FSP-LX LENSES works with FSP-211 motion sensors to provide multi-level lighting control based on motion and the ambient light level. Three lens choices provide flexibility for varying mounting heights.

FSP-L2 TOP AND SIDE COVERAGE PATTERNS

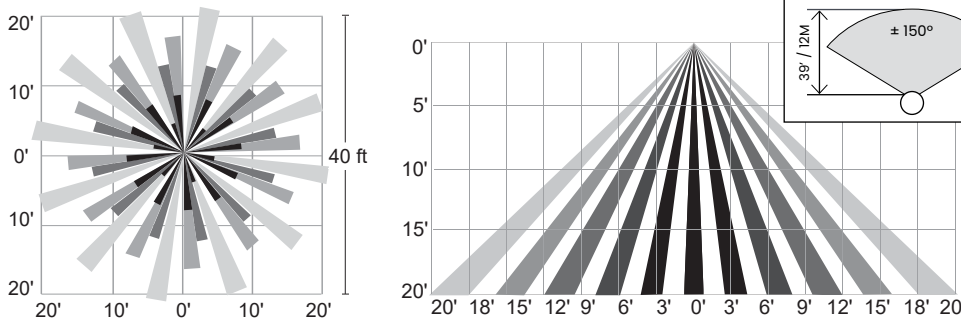


360° lens, maximum coverage 48' diameter from 8' height

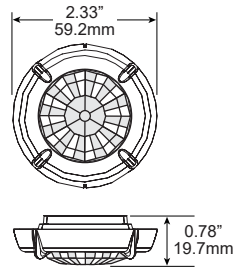


FSP-L2 DIMENSIONS

FSP-L3 TOP AND SIDE COVERAGE PATTERNS

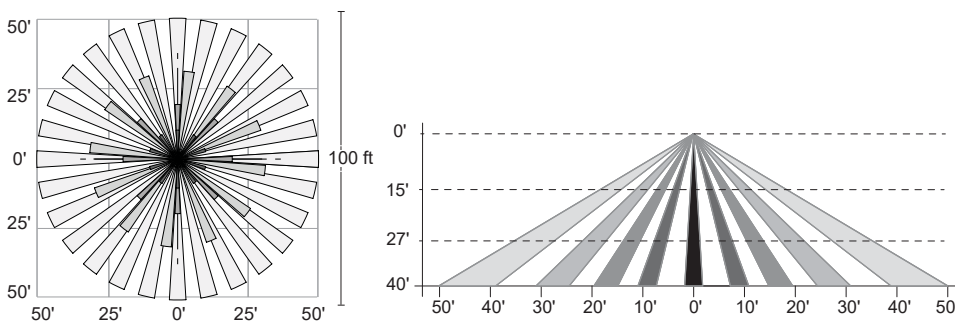


360° lens, maximum coverage 40' diameter from 20' height.
Also available on bollard (Installation height: between 36 and 48" from the ground)

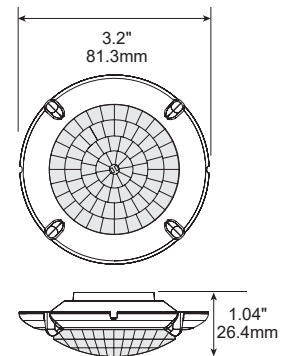


FSP-L3 DIMENSIONS

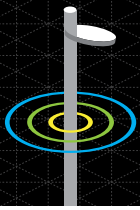
FSP-L7 TOP AND SIDE COVERAGE PATTERNS



360° lens, maximum coverage 100' diameter from 40' height.
Only available on the OVAALI and RL model



FSP-L7 DIMENSIONS



MOTION SENSOR SEAMLESS INTEGRATION



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AVAILABLE PRODUCTS:



CITII FAMILY



COSMO FAMILY



CONCEPT FAMILY



- Mounting type;
- Post-top
 - Sidemount
 - Pendant

RL PREMIUM FAMILY



LUUMA FAMILY



CLS configuration only



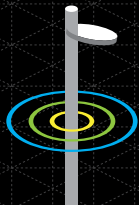
Please contact LUMCA for 6" and 8" pole

LUUMA LU-BA



Only with FSP-L3 lens





LIGHTING CONTROL



TITLE 24

BRIGHTLIFE Smart city connectivity solution by LUMCA

LIGHTING CONTROLS



FEATURES	PHOTOCELL	PROGRAMMABLE DRIVER	MOTION SENSOR WITH PHOTOCELL	SMART CITY MANAGEMENT SYSTEM (SCMS)
Economy related to energy consumption	✓	✓	✓	✓
On/Off Capacity	✓		✓	✓
Extend LED life	✓	✓	✓	✓
Meets California Title24 code	✓	✓	✓	✓
Scenario pre-program by Lumca		✓	✓	✓
Dimming trigger by motion sensor			✓	
APPs for multi-site acces				✓
Real time Inventory management through User interface based on Google map				✓
Ability to create various groups or zones				✓
Real time alarm on malfunction				✓
Gateway connected via Internet				✓
Several level of security by defining roles and user authentication with login & password				✓
Possibility to manage several gateway through the same interface				✓
All the data is stored in a central database (SQL)				✓
Possibility to generate dynamic reports				✓
Tool for digitalization & geolocalisation available				✓
APIs and web services to connect to external system				✓
SAAS model with monthly fees				✓