

SUITABLE FOR MODEL



IMAGE MAY VARY FROM ACTUAL PRODUCT

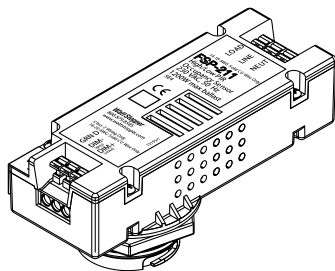
DESCRIPTION

The FSP-211 is a passive infrared (PIR) outdoor sensor that raises or lowers the electric lighting level to high, low or off based on motion and/or daylight contribution. Typically, once the sensor stops detecting movement and the time delay elapses, lights will first fade to low mode, and eventually switch off. When motion is detected, the sensor ramps the light level to high mode unless the daylight contribution is sufficient. The integral photocell can also switch the lights on and off for dusk to dawn control, so that lighting remains on overnight even without motion detection. This slim, low-profile sensor is designed for installation inside the bottom of a light fixture body, and is rated for wet and cold locations. Initial setup and subsequent sensor adjustments are made using a wireless handheld configuration tool (FSIR-100). This tool enables adjustment of sensor parameters including high/low mode, sensitivity, time delay, cut off and more.

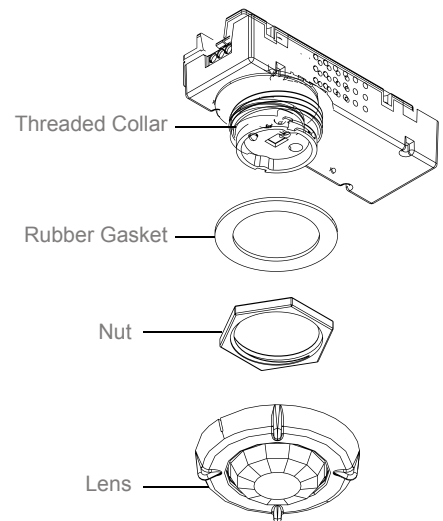
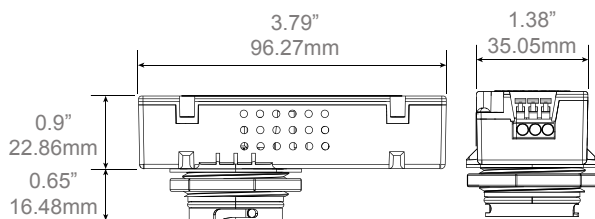
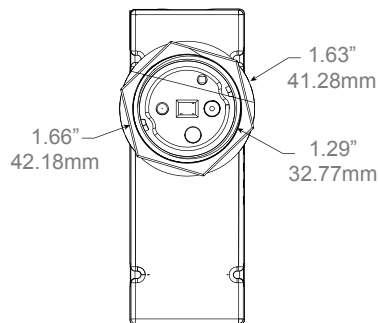
The FSIR-100 can read current parameter settings, and stores up to six sensor parameter profiles to speed commissioning of multiple sensors. **(NOTED: FSIR-100 NEEDS TO BUY SEPARATELY WHICH IS NOT CONTAINED IN MULTI-LEVEL MOTION SENSOR PROVIDED BY ABOVE ALL)**

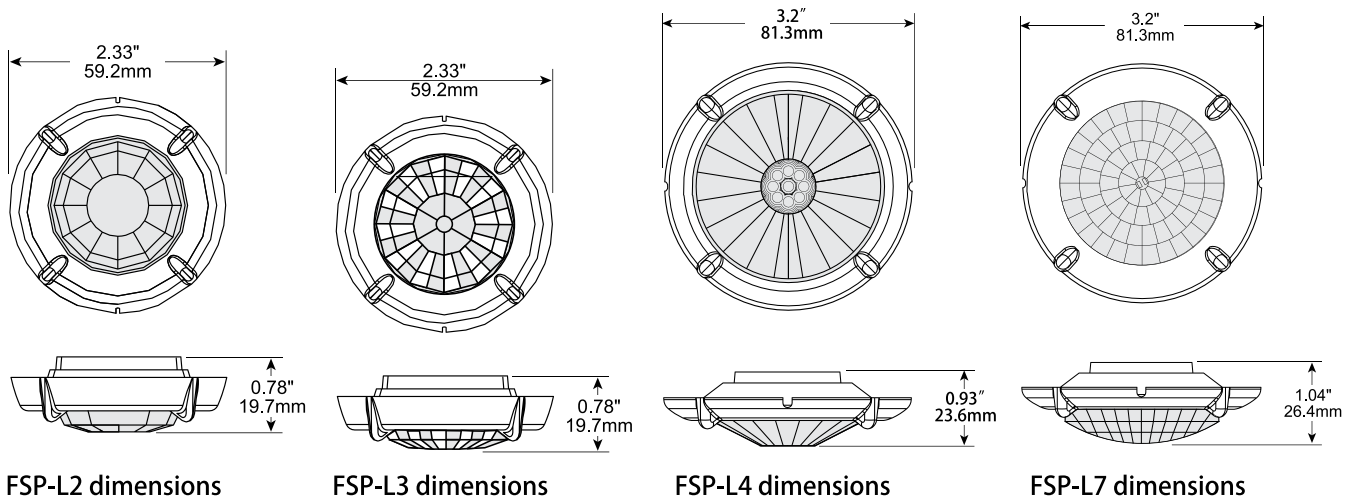
DESCRIPTION

FSP-211 SENSOR MODULE



FSP-211 DIMENSIONS





ABOVE ALL STANDARD PROGRAMMABLE MULTILEVEL MOTION SENSOR

FSP211+FSP L7

Outdoor installation using Setpoint and Photocell features (Above All Default Settings)

High Mode	10 Volts
Low Mode	3 Volts
Time Delay	15 min
Cut Off	Dis
Sensitivity	Max
Setpoint	15
Ramp Up	Dis
Fade Down	Dis
Photocell	30

This configuration will set the luminaire to turn on at dusk when the ambient light level drops below 15 fc (161 lx). When motion is detected, the luminaire will switch to high mode. If after 15 minutes no motion is detected, then it will switch to low mode. If the ambient light level is greater than 15 fc but less than 30 fc (322 lx), then the luminaire will stay in low mode, even if motion is detected. When the ambient light level rises above 30 fc, then the luminaire will turn off and remain off until the light level drops back below 15 fc.

Tip: It may be necessary to adjust the setpoint and photocell values to compensate for reflected light from the luminaire or adjacent light sources. Check the light level by reading the current settings using the programming tool. If the light level is higher than the photocell value, the luminaire will turn off. If this behavior is not desired, then increase the photocell value. If the luminaire is staying in low mode, then it may be necessary to increase the setpoint value.

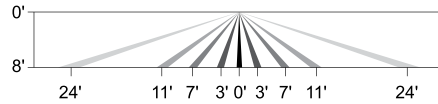
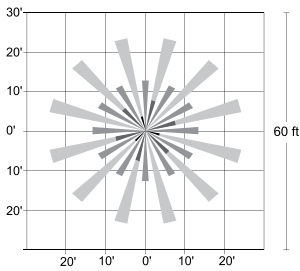
Tip: When checking light level, wait ~5 seconds after a sudden change in light level (e.g. luminaire switching from high to low mode). It may be necessary to take more than one reading.

Indoor installation using Setpoint and Photocell features(Above All Default Settings)

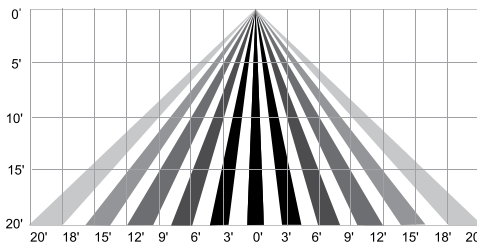
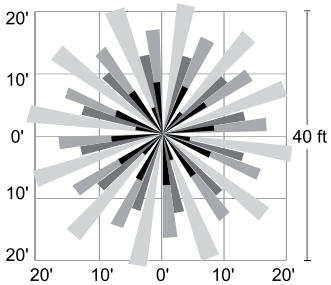
High Mode	10 Volts
Low Mode	5.0 Volts
Time Delay	2 min
Cut Off	5 min
Sensitivity	High
Setpoint	Dis
Ramp Up	Dis
Fade Down	5 sec
Photocell	Dis

In this configuration the luminaire dim to low mode with a 5-second fade down after 2 minutes elapse with no motion detection. After 5 minutes, the luminaire will turn off. When motion is detected, the luminaire will switch to high mode. The luminaire will not be affected by the ambient light level.

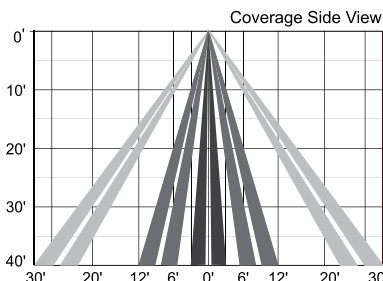
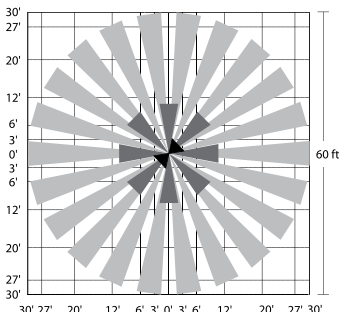
COVERAGE



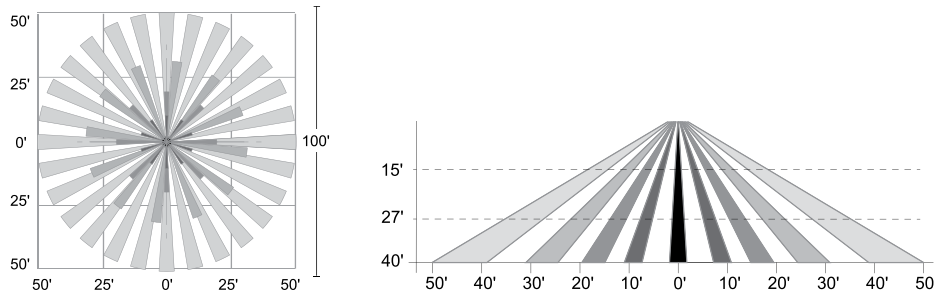
FSP-L2 top and side coverage patterns



FSP-L3 top and side coverage patterns



FSP-L4 top and side coverage patterns



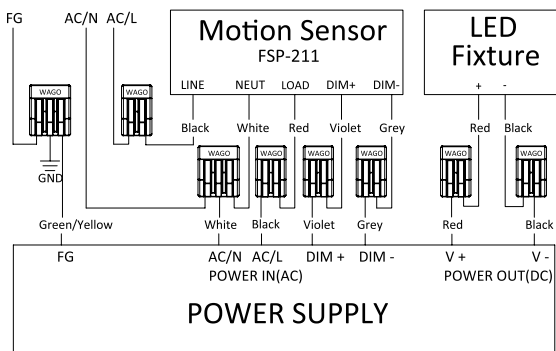
FSP-L7 top and side coverage patterns

Above All standard one: FSP-L7

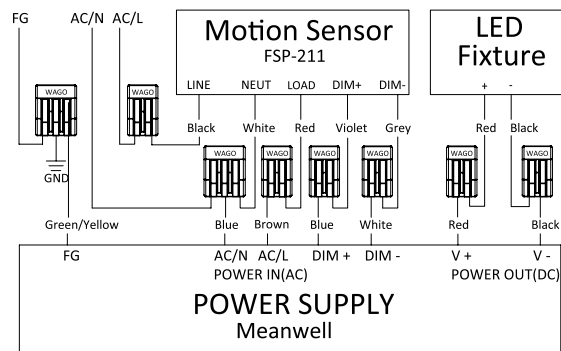
Customers need another coverage lens should be ordered separately.

WIRE CONNECTION

Wiring Diagram For Typical Driver



Wiring Diagram For Meanwell Driver



CUSTOMER SETTING GUIDANCE

USING THE FSIR-100



The FSIR-100 is a convenient handheld remote tool for setting up the FSP-211. Adjustable settings can be changed as needed for specific applications.

```
FSP-201 Settings
High Mode: <10 Volts>
Low Mode: <1 Volts>
Time Delay: <5 Min>
Cut Off: <1 hour>
Sensitivity: <Max>
Setpoint: <Dis>
NEXT SEND
```

1. High Mode: When the sensor detects motion the dimming control output ramps up to the selected HIGH light level.

```
FSP-201 Settings
High Mode: <10 Volts>
Low Mode: <1 Volts>
Time Delay: <5 Min>
Cut Off: <1 hour>
Sensitivity: <Max>
Setpoint: <Dis>
NEXT SEND
```

2. Low Mode: After the sensor stops detecting motion and the time delay expires the dimming control output fades down to the selected LOW light level.

```
FSP-201 Settings
High Mode: <10 Volts>
Low Mode: <1 Volts>
Time Delay: <5 Min>
Cut Off: <1 hour>
Sensitivity: <Max>
Setpoint: <Dis>
NEXT SEND
```

3. Time Delay: The selected time period that must elapse after the last time the sensor detects motion for the electric lights to fade to LOW mode.

```
FSP-201 Settings
High Mode: <10 Volts>
Low Mode: <1 Volts>
Time Delay: <5 Min>
Cut Off: <1 hour>
Sensitivity: <Max>
Setpoint: <Dis>
NEXT SEND
```

4. High Mode: When the sensor detects motion the dimming control output ramps up to the selected HIGH light level.

```
FSP-201 Settings
High Mode: <10 Volts>
Low Mode: <1 Volts>
Time Delay: <5 Min>
Cut Off: <1 hour>
Sensitivity: <Max>
Setpoint: <Dis>
NEXT SEND
```

5. Sensitivity: The response of the PIR detector to motion within the sensor's coverage area.

```
FSP-201 Settings
High Mode: <10 Volts>
Low Mode: <1 Volts>
Time Delay: <5 Min>
Cut Off: <1 hour>
Sensitivity: <Max>
Setpoint: <Dis>
NEXT SEND
```

6. Setpoint: When enabled, the selectable ambient light level threshold that will hold the electric lights off or at LOW level when the sensor detects motion. The Auto option invokes an automatic calibration procedure to establish an appropriate setpoint based upon the contribution of the electric light. As part of this procedure, the controlled load is turned on for two minutes to warm up the lamp, and then switched off and on eight times, terminating in an off state. After this process, a new setpoint value is automatically calculated.

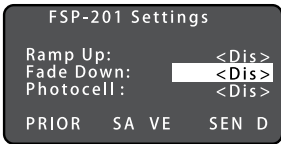
```
FSP-201 Settings
Ramp Up: <Dis>
Fade Down: <Dis>
Photocell: <Dis>
PRIOR SAVE SEND
```

7. Photocell On/Off: When enabled, the sensor will force the load OFF after the light level has exceeded the selected photocell setpoint for at least a minute. It will also force the load ON when the light level goes below the setpoint, even if no motion is detected. Once ON (initially at High), the load will dim to Low following the Time Delay, and to OFF following the Cut Off time. To ensure dusk to dawn control, Cut Off must be disabled. The photocell On/Off setpoint is automatically set to maintain a deadband of at least 10 fc above the Hold Off Setpoint to prevent cycling if the two features are used together.

8. Ramp Up Time: Time period for light level to increase from LOW to HIGH.

```
FSP-201 Settings
Ramp Up: <Dis>
Fade Down: <Dis>
Photocell: <Dis>
PRIOR SAVE SEND
```

9. Fade Down Time: Time period for light level to decrease from HIGH to LOW.



10. Lock Settings: Time delayed IR communication lock initiated from the FSIR-100 to prevent unauthorized changes of FSP-211 parameters until power is cycled to the sensor. To lock settings, select Lock Delay, set a time, and press SEND to send the parameter change to FSP-211. After the countdown, FSP-211 will no longer respond to the FSIR-100. If additional configuration is required, cycle the power to the FSP-211 off and then back on. To disable the lock parameter after the power cycle, select Lock Delay, select Disable, and press SEND.

Troubleshooting

Lights that shine or reflect into photocell may turn off the fixtures.

- 1) Adjust the motion sensor counterclockwise or clockwise to avoid light or reflected lights
- 2) Increase the "Photocell Set point for On/Off" , e.g. increase 5 fc.

Warranty

Five year limited warranty. Full warranty terms located at www.abovealllighting.com/warrantystatements