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legrand FS-305 Occupancy Sensors Owner's Manual

Wattstopper®
FS-Lx Lens Modules for FS-305/FS-355 Occupancy Sensors
Lens Coverage Guide
No: 24234 – 06/24 rev. 2
Catalog Number: FS-Lx
Country of Origin: Made in China
AVAILABLE MODELS
FS-L2W, FS-L3W, FS-L6, FS-L7W

Contents

SPECIFICATIONS

Operating Temperature ………………….. 32° to 131°F (0° to 55°C)
IP Rating when mounted to outdoor rated fixture ……………IP-65

DESCRIPTION AND OPERATION

The FS-305 and FS-355 occupancy sensors are modular, consisting of two parts, a Sensor Module and a Lens. The Sensor Module is selected according to the type of power available in the installation and desired operational

features. The Lens is selected based on the coverage desired for the sensor application.

Sensors must directly "see" motion of an occupant to detect them, so careful consideration must be given to sensor placement. Avoid placing the sensor where shelving or other obstructions may block the sensor's line of sight.

FS-L2W, FS-L3W, FS-L6, and FS-L7W have multi-cell, multi-tier Fresnel lenses with a 360° view. This document describes the coverage patterns available with each lens. Coverages shown in the diagrams are maximum, measured in linear feet. They represent coverage for full-step walking motion, with no barriers or obstacles.

NOTE: The FS-L2W, FS-L3W, and FS-L7W are wet-rated. The FS-L6 is not. All models are white.

Passive Infrared Sensing in Warehouses

Warehouses can have ambient temperature variations that may affect sensor detection and coverage areas. High temperatures at the covered area (above 89-92°F) reduce the detection zone of the sensor. Consider adding more sensors if the ambient temperatures are expected to be high. Additionally, high floor level temperature may require larger movement for detection. In some cases, sensors mounted above 40' may only detect large heat signatures such as forklift trucks.
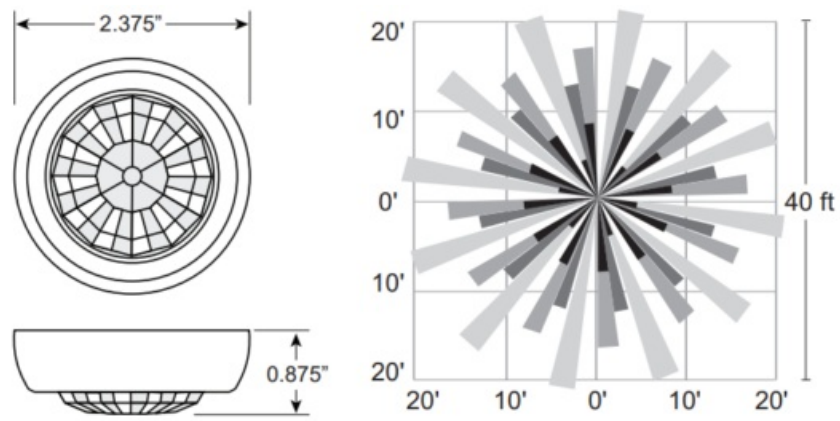
See the Sensor Module Installation Instructions for a complete description of the assembled unit installation, wiring, and safety information.
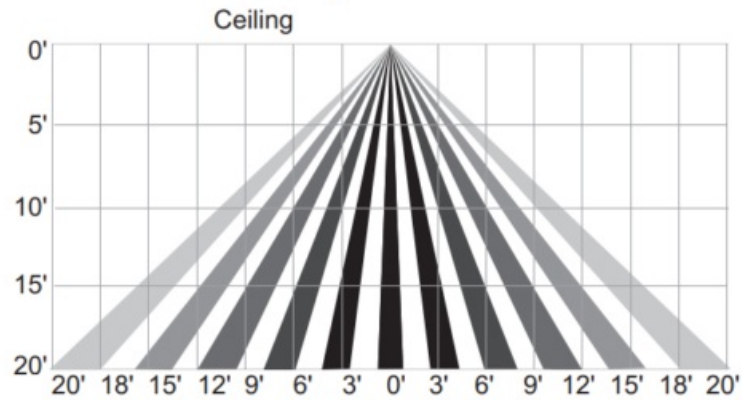
Coverage Top View @ 12ft.
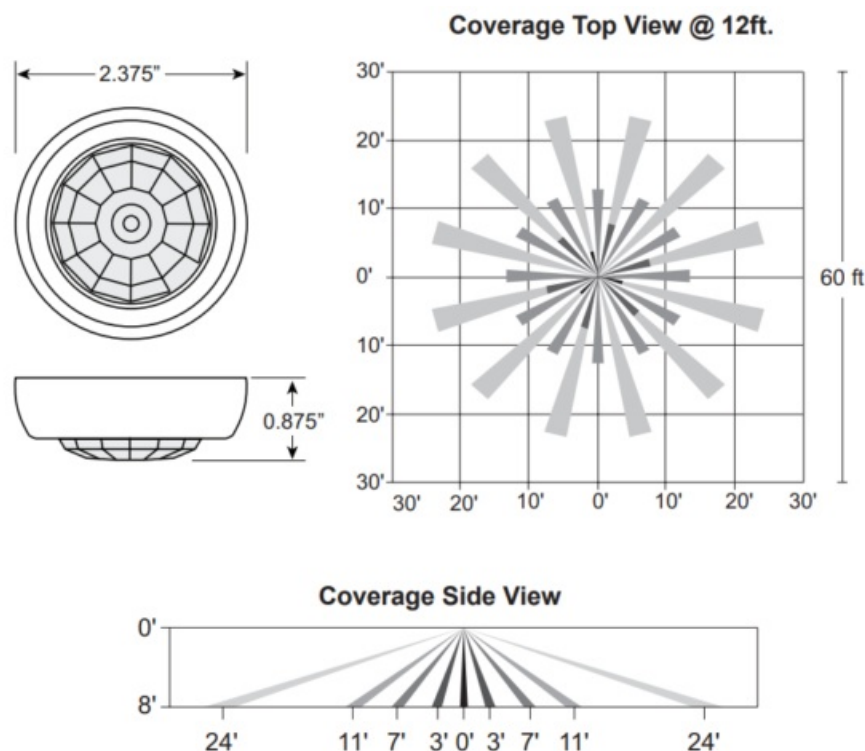
Coverage Side View

FS-L2W: 360° Coverage

The FSP-L2 is designed for mounting at heights between 8' to 12'. It provides a 48' diameter coverage area when mounted at a height of 8', or a 72' diameter coverage area at 12'.

Coverage Top View @ 20 ft.

2.375"

0.875"
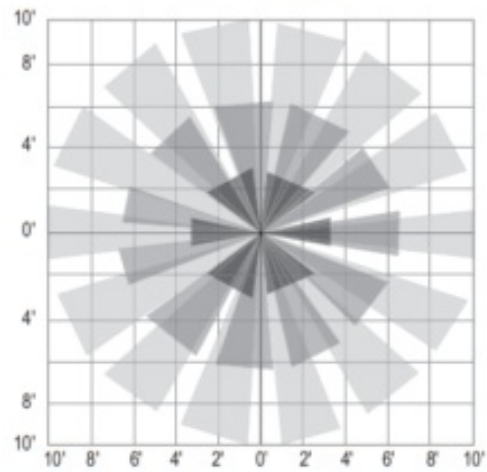
20' 10' 0' 10' 20'

40 ft

20' 10' 0' 10' 20'

Coverage Side View

Ceiling

0' 5' 10' 15' 20'

20' 18' 15' 12' 9' 6' 3' 0' 3' 6' 9' 12' 15' 18' 20'

FS-L3W: 360° Coverage

The FSP-L3 has a high density lens that covers a 40′ diameter area at a height of 20′.

1.295"
(32.89mm)

0.61"
(15.49mm)

Coverage Top View @8ft

Coverage Side View
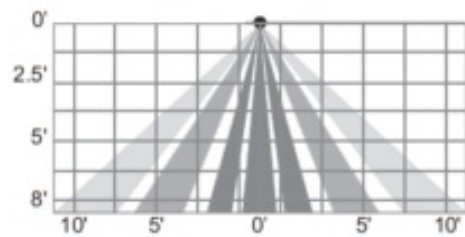
FS-L6: 360° Coverage
The FS-L6 has a lens that covers a 20′ diameter area at a height of 8′.

3.17"
(80.5mm)

1.07"
(27.16mm)

Coverage Top View @40ft

Coverage Side View
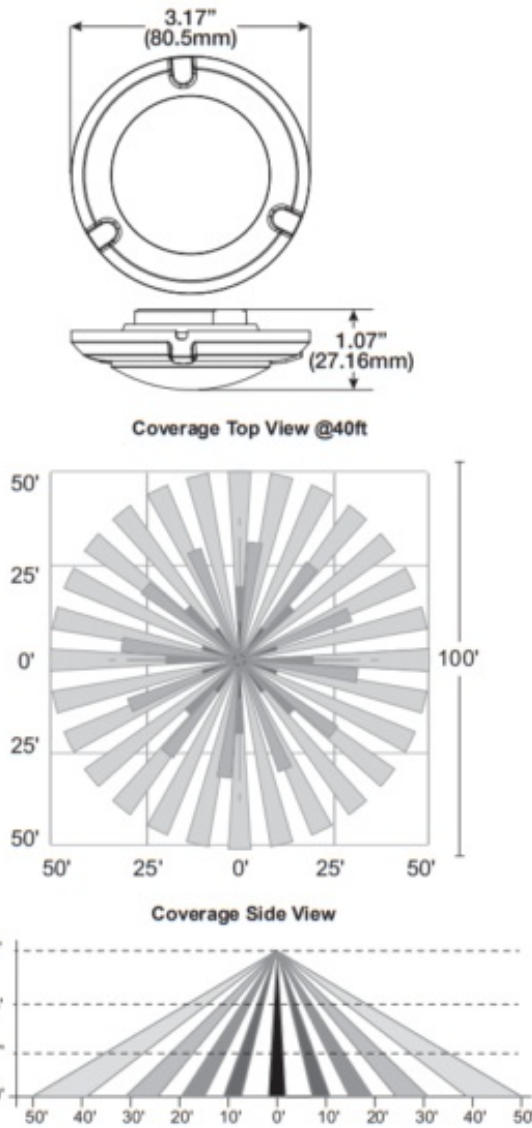
FS-L7W: 360° Coverage

These models have a lens that covers a 100′ diameter area at a height of 40′.

WARRANTY INFORMATION

Wattstopper warranties its products to be free of defects in materials and workmanship for a period of five (5) years. There are no obligations or liabilities on the part of Wattstopper for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.

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Documents / Resources

legrand FS-305 Occupancy Sensors [pdf] Owner's Manual
FS-L2W, FS-L3W, FS-L6, FS-L7W, FS-305 Occupancy Sensors, FS-305, Occupancy Sensors, Sensors

References

- **User Manual**