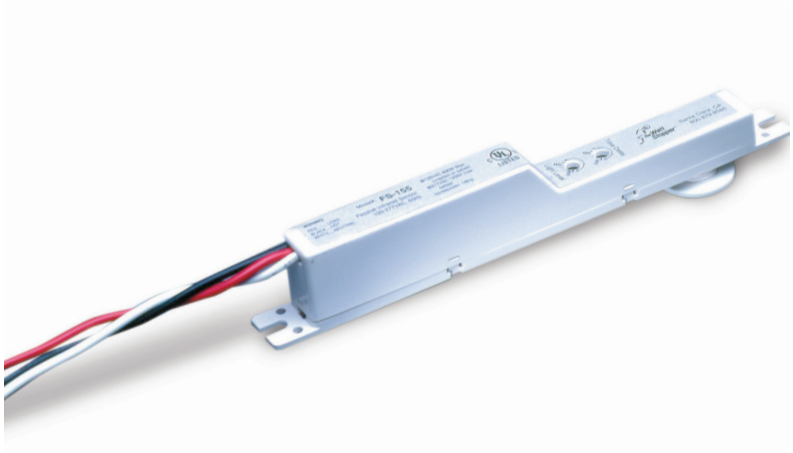
LINE VOLTAGE PIR FIXTURE INTEGRATED OCCUPANCY SENSOR

FS-155/FS-155-1

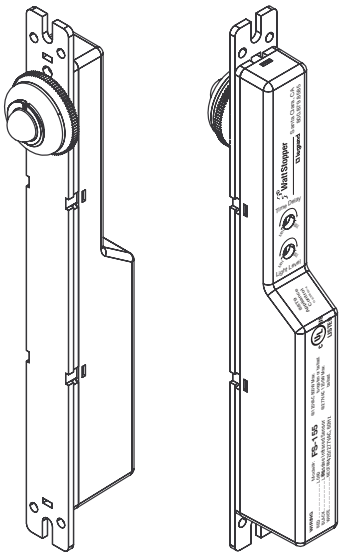


PRODUCT OVERVIEW

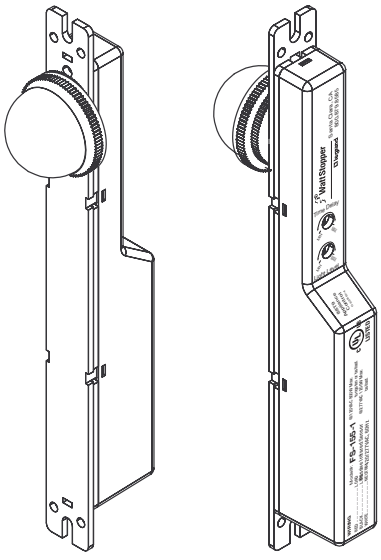
The FS-155/FS-155-1 Line Voltage Passive Infrared (PIR) sensors control lighting based on occupancy. Utilizing PIR technology, which detects the difference between infrared energy in motion and the background space, they automatically turn the lights off after the defined area is vacated and the adjustable time delay (30 seconds to 30 minutes) has elapsed.

The sensors are designed with a low-profile, aesthetically pleasing appearance to easily integrate into a wide range of lighting fixtures or customized housing. They are also suitable for controlling desktop task lighting. Both models provide a sensor and relay in one package, and are equipped with 6" flying leads.

FS-155

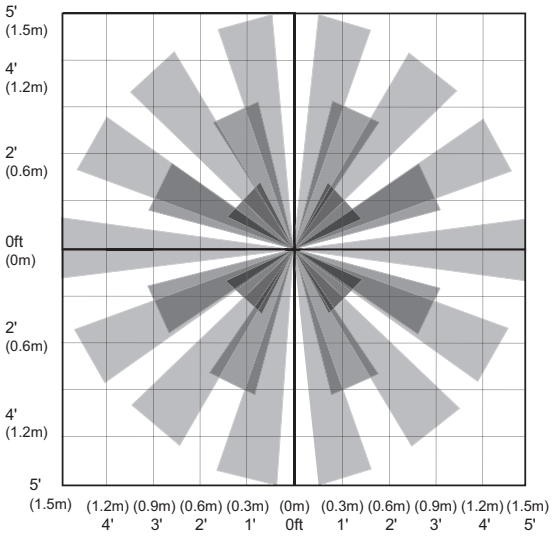


FS-155-1

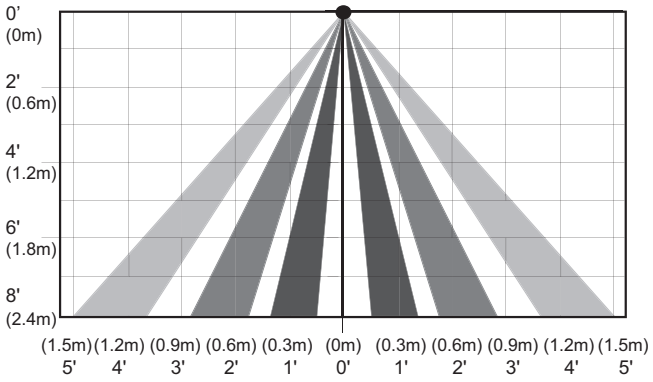


MODELS
FS-155
FS-155-1
SPECIFICATIONS & FEATURES
Power Voltages: 120/277 VAC, 60 Hz
Load Ratings: @ 120VAC, 60 Hz: 0-800W ballast or incandescent @ 277VAC, 60 Hz: 0-1200W ballast
Adjustments: Time delay: 30 seconds - 30 minutes
Dimensions: Sensor body: 7.1" L x .87" D x .67" W (181mm x 22mm x 17mm) FS-155 lens housing: 0.5" (12.7mm) diameter FS-155-1 lens housing: 0.55" (14mm) lens collar: 1" (25.4mm) diameter
Power consumption: 14mA @ 120VAC 32mA @ 277VAC
LED indicator of occupancy detection
6-inch flying leads
Compact design ideal for controlling task lighting
Indoor use only
Operating conditions: 32°F to 131°F (0°C to 55°C); 5% to 95% RH, non condensing
UL and cUL listed (E101196)
Five year warranty
MATERIALS
ABS, flame retardant Meets materials restrictions of RoHS
FACTORY DEFAULTS
Time Delay: 30 minutes

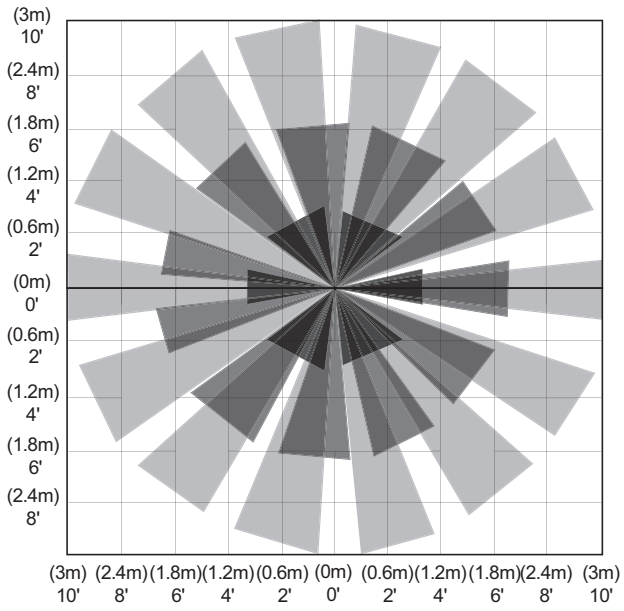
COVERAGE AND DETECTION FEATURES



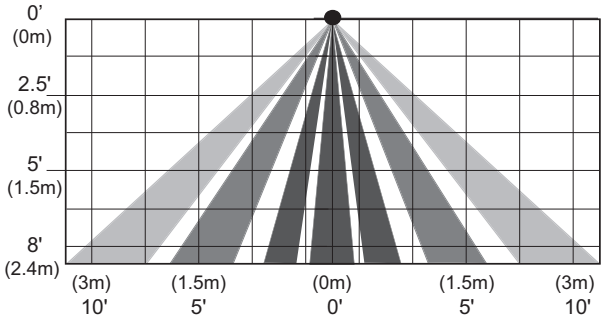
FS-155 top coverage



FS-155 side coverage



FS-155-1 top coverage



FS-155-1 side coverage

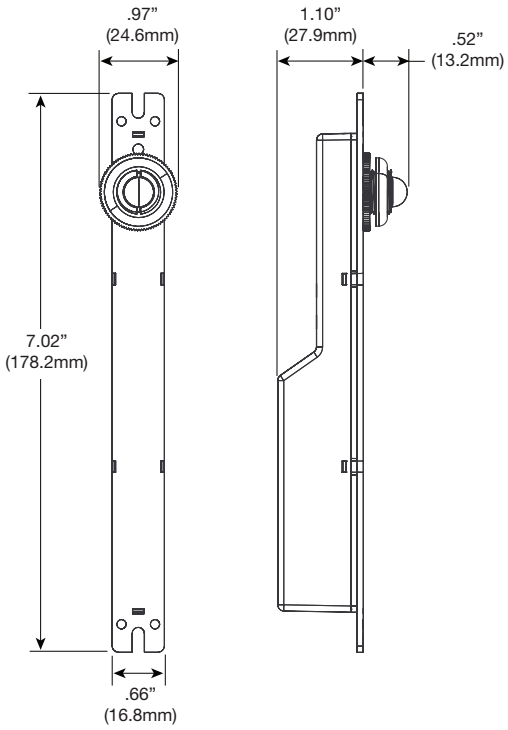
Coverage Patterns

Density and range of the coverage pattern is determined by mounting height. The FS-155 and the FS-155-1 have multi-cell, multi-tier Fresnel lenses with a view of 360°. The FS-155 provides an approximate coverage up to 10′ in diameter and the FS-155-1 an approximate coverage up to 20′ in diameter.

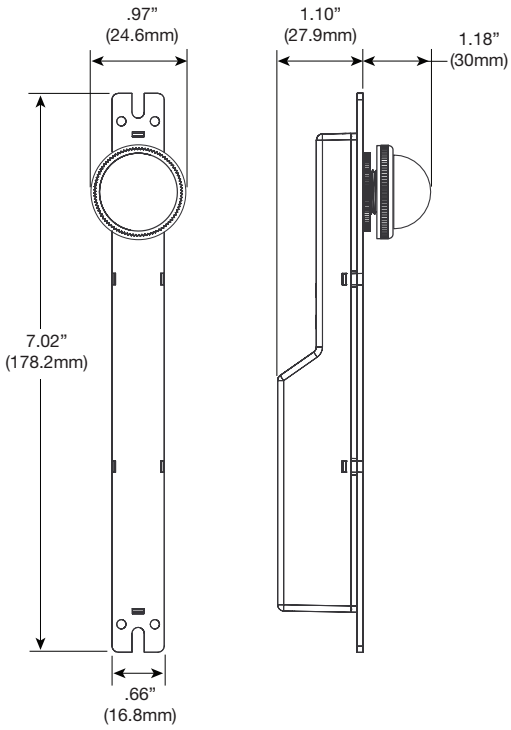
Coverages shown in the diagrams above are maximum. They represent coverage for full-step walking motion, with no barriers or obstacles.

DIMENSIONS

FS-155 dimensions

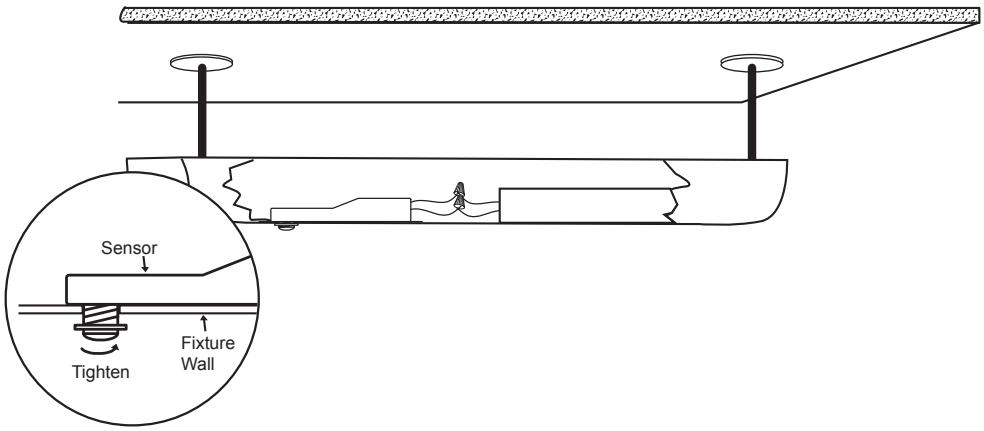


FS-155-1 dimensions

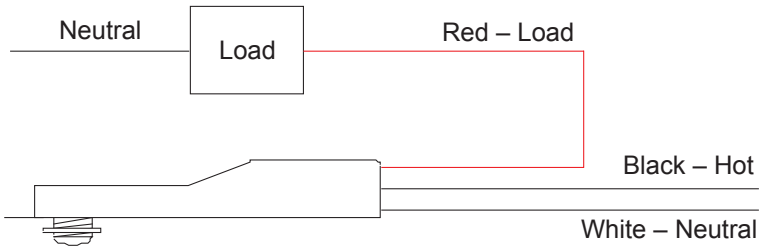


INSTALLING THE FS-155/FS-155-1 SENSOR IN LIGHT FIXTURE

1. Determine an appropriate mounting location inside the light fixture.
2. Cut a 9/16” diameter hole through the sheet metal in the bottom of the fixture.
3. Remove the thumbscrew collar and lens from the lens pipe of the FS-155 or FS-155-1.
4. Insert the lens pipe through the hole in the bottom of the fixture then put the thumbscrew collar onto the lens pipe. Tighten it securely to the outside of the fixture.
5. Use the holes or mounting slots at both ends of the sensor to secure it to the fixture.
6. Re-tighten the thumbscrew collar.
7. Attach the lens to the lens pipe and tighten it.



WIRING DIAGRAM



Line voltage wiring between FS-155/ FS-155-1 to load.

SEQUENCE OF OPERATION

It may take up to a minute for the sensor to warm up during the initial power-up. The sensor has an "instant on" feature. This occurs during installation or after a lengthy power failure only. As soon as power is supplied to the sensor, the lights will come on and stay on for approximately 1 minute. If no movement is detected within that time the lights will turn off until detection occurs. If movement is detected during the initial 1 minute then the lights will stay on for whatever time has been set on the time delay.

ORDERING INFORMATION

Catalog #	Master Pack Details					Inner Pack Details				
	Master Pack Quantity	Case dimensions (inches)			Weight (pounds)	Inner Pack Quantity	Case dimensions (inches)			Weight (pounds)
		Length	Width	Height			Length	Width	Height	
FS-155	192	16.3	12.8	20.3	32	48	7.8	6	19.7	7.4
FS-155-1	192	16.3	12.8	20.3	10.74	48	23.03	7.72	8.58	4.72

Catalog #		Color	Description	Voltage
☐	FS-155	White	Fixture mount, line voltage PIR occupancy sensor, 10 foot diameter coverage	120/277 VAC; 60Hz
☐	FS-155-1	White	Fixture mount, line voltage PIR occupancy sensor, 20 foot diameter coverage	120/277 VAC; 60Hz

Information supplied above is subject to change.
Harmonization code: 8538908080. Country of origin: China.

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