HIGH/LOW LOW VOLTAGE PASSIVE INFRARED FIXTURE INTEGRATED MOTION SENSOR

FS-305-D

MODELS
FS-305-D

SPECIFICATIONS & FEATURES
Input Voltage: 12-30 VDC
Requires FS-PP power pack for operation
Compact design ideal for use in parking garage and parking lot luminaires
IP65 and UL 244A and 508 rated (when fully assembled, installed and FS-LxW lens is used) for use in wet location environments (indoor and outdoor)
Four interchangeable lenses (FS-L2W, FS-L3W, FS-L6, FS-L7W) for mounting between 8' and 40'
Power consumption: 6.5mA @ 24VDC
Current sinking: 50mA
Adjustable time delay (30 seconds to 30 minutes)
Fixed sensitivity optimized for FS-LxW lens coverages
Adjustable low mode (1V to 5V)
Operating temperature -40°F to +131°F (-40°C - 55°C)
Storage temperature: -40°F to +176°F (-40°C to +80°C)
Operating Humidity: 5% to 95% RH, non condensing
Weight: 1.5 oz (42.52 grams)
Five year warranty
UL and cUL listed

MATERIALS
Polycarbonate, flame retardant UV resistant Impact resistant Recyclable

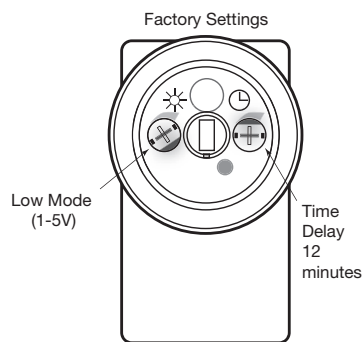| FACTORY DEFAULTS |
| --- |
| Time delay: 12 minutes Low mode: 1 V |

PRODUCT OVERVIEW

The FS-305-D is a sensor that dims the lights based on motion. It is a slim, low-profile device designed for installation inside the bottom of a light fixture body.
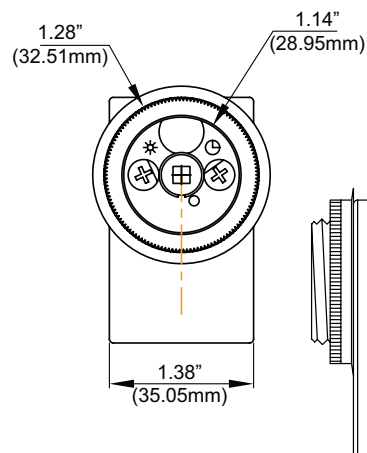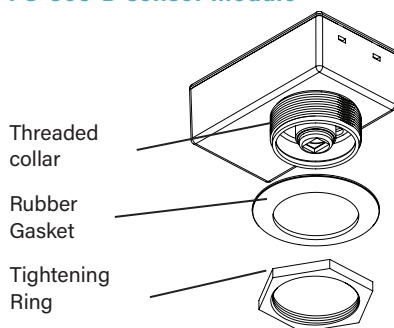
The FS-305-D consists of a single unit to which the lens module attaches. Four lens choices provide flexibility for varying mounting heights. The lenses mount onto the sensor body from the exterior of the fixture, threading onto the FS-305 threaded collar.
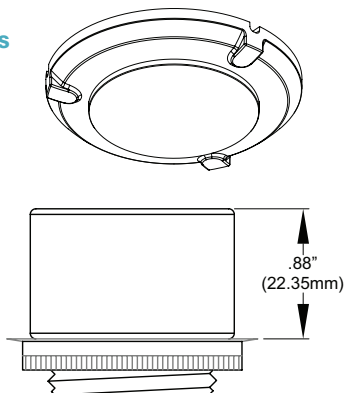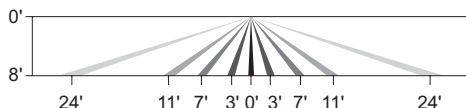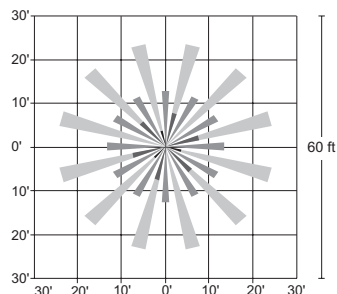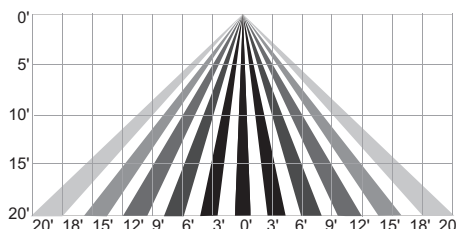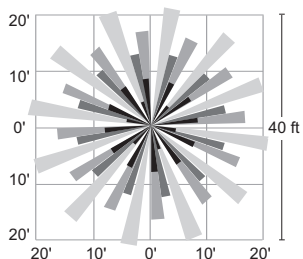
The device will raise the lights from Low Mode to High Mode in response to motion detection. When the space becomes vacant and after the time delay elapses, the sensor will return lights to Low Mode.

Factory Settings

Low Mode (1-5V)

Time Delay 12 minutes

FS-305-D sensor module

Threaded collar

Rubber Gasket

Tightening Ring

FS-L7W lens

1.28" (32.51mm)

1.14" (28.95mm)

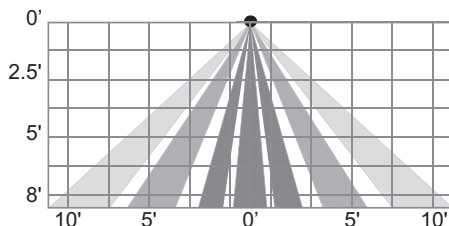1.38" (35.05mm)

2.35" (59.69mm)

.88" (22.35mm)

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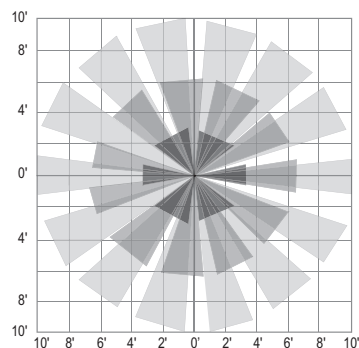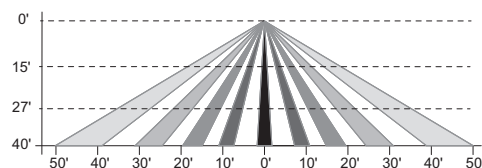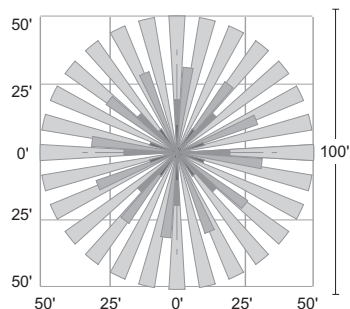## COVERAGE

FS-L2W top and side coverage patterns

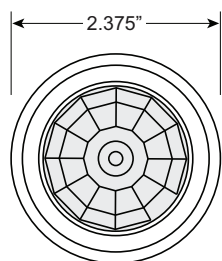**FS-L3W top and side coverage patterns**

FS-L6 top and side coverage patterns
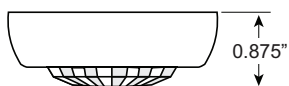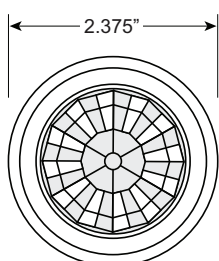(indoor, non-wet location use only)

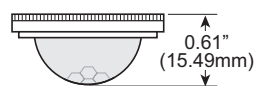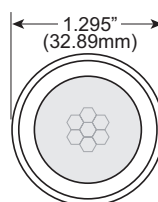**FS-L7W top and side coverage patterns**

DIMENSIONS OF LENS OPTIONS

FS-L2W dimensions

FS-L3W dimensions

FS-L6 dimensions

FS-L7W dimensions

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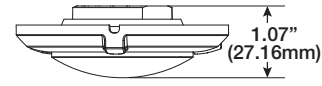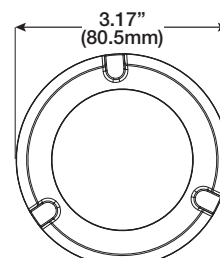
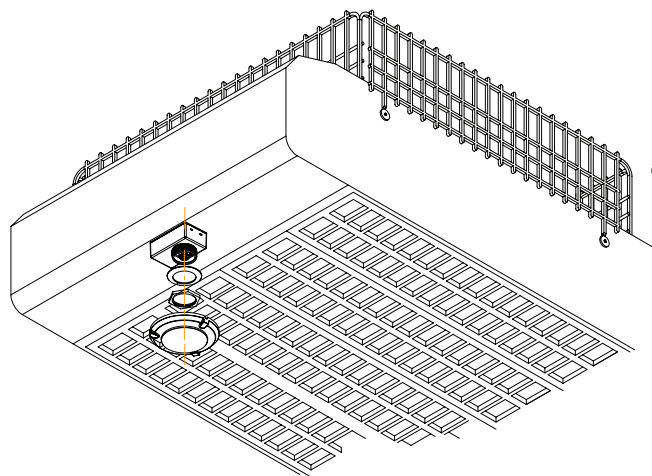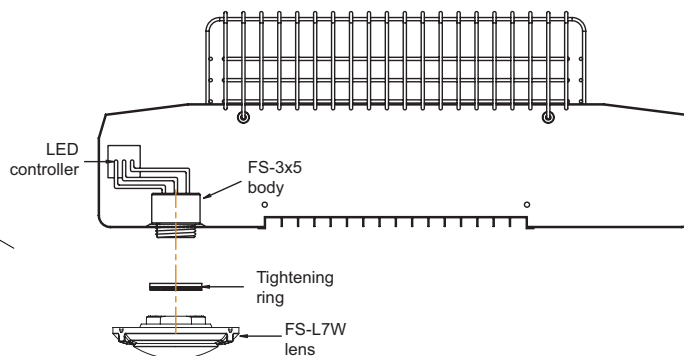## INSTALLING THE FS-305-D SENSOR IN LIGHT FIXTURE

Choose a level surface for mounting the FS-305-D.

Punch or drill a 1 1/8" hole in the luminaire housing. From the inside of the fixture, insert the sensor threaded collar through the hole in the bottom of the fixture. Hand-tighten the lens securely against the outside of the fixture.

If necessary, use the Tightening Ring as a spacer on either side of the fixture wall. Use FS-C2 cable and connect RJ45 cable to FS-PP. See Installing the Power Pack, below.

LED controller

FS-3x5 body

Tightening ring

FS-L7W lens

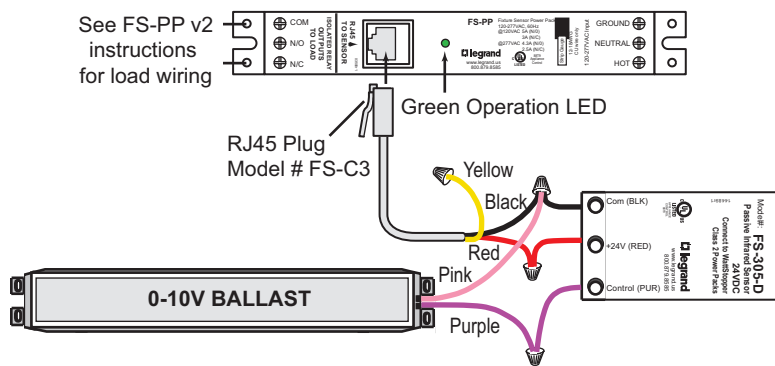**Installing the FS-305-D in the light fixture.**

INSTALLING THE POWER PACK

1. Determine an appropriate mounting location inside the fixture.
2. Use the holes or mounting slots at both ends of the power pack to secure it to the fixture.
3. Connect wires to the load and the electrical supply as described in the wiring section.

4. Connect the FS-C2 connector to the RJ45 on the power pack.
5. Connect the FS-C2 flying lead on the FS-305-D flying leads as described in the wiring section.

WIRING

The FS-305-D is supplied with flying leads. This facilitates wiring at the factory, and enables manufacturers to use one-piece leads, minimizing splicing in the luminaire housing. Only copper conductors should be used for wiring connections.

There is an initial warm-up period, so during initial power-up, it may take up to a minute before the lights turn on. After warm-up, the sensor will open or close the relay to correspond to the occupancy status of the room. This occurs only during first power up at the initial installation or after a lengthy power failure.

See FS-PP v2 instructions for load wiring

COM
N/O
N/C

FS-PP Fixture Sensor Power Pack
120-277VAC, 60Hz
@120VAC 3A (N/O)
@277VAC 4.2A (N/O)
2.2A (N/C)

GROUND
NEUTRAL
HOT

Green Operation LED

FS-305-D wiring

RJ45 Plug Model # FS-C3

Yellow
Black
Red
Pink
Purple

0-10V BALLAST

Com (BLK)
+24V (RED)
Control (PUR)

Module FS-305-D
Passive Infrared Sensor
24VDC
Connect to WattStopper
Class 2 Power Packs

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-305-D	200	21.1	19.72	20.4	26.8		50	20.7	9.45	9.8	6
FS-L2W	420	16.3	12.75	20.3	23.2		105	7.75	6	19.7	5.3
FS-L3W	420	16.3	12.75	20.3	23.2		105	7.75	6	19.7	5.3
FS-L6	400	15.75	9.8	11.8	5.56		N/A	N/A	N/A	N/A	N/A
FS-L7W	100	21.8	17.5	15.7	15.2		50	20.6	8.3	15	6.7
FS-PPv2	100	21.1	20.1	10.3	21.8		N/A	N/A	N/A	N/A	N/A
FS-C2	700	18.5	13.4	14	16.8		20	13.8	9	.01	.48

Catalog #		Color	Description	Voltage
☐	FS-305-D	White	Fixture mount, High/Low, low voltage, passive infrared motion sensor	12-32 VDC
☐	FS-L2W	White	360° lens, maximum coverage 48' diameter from 8' height	
☐	FS-L3W	White	360° lens, maximum coverage 48' diameter from 20' height	
☐	FS-L6	White	360° lens, maximum coverage 20' diameter from 8' height (indoor, non-wet location use)	
☐	FS-L7W	White	360° lens, maximum coverage 100' diameter from 40' height	
☐	FS-PPv2	White	Fixture Sensor Power Pack	120/277/347 VAC; 60 Hz
☐	FS-C2		Connector cable, 6" cable with 3 flying leads at one end and a shielded RJ45 male connector on other end	