LOW VOLTAGE PIR FIXTURE INTEGRATED OCCUPANCY SENSOR | FS-205

Compact lens gives unobtrusive appearance in even the smallest fixtures

Turn lights on and off based on occupancy

Hold off daylighting light level feature

Occupancy sensor that integrates into lighting fixtures

Modular plug system streamlines installation

RoHS

Description

The FS-205 Low Voltage Passive Infrared (PIR) Fixture Sensor controls lighting based on occupancy. It is designed with a low-profile, architecturally pleasing appearance to easily integrate into lighting fixtures or a customized housing. The modular plug-in system utilizes an RJ45 connector on a low-voltage 6-ft. cord for installation flexibility, and to quickly link to a remote-mounted power pack.

Operation

When connected to an FS-PP Power Pack, the FS-205 sensor operates at 24 VDC to detect occupancy. Utilizing the latest PIR technology to detect the difference between heat emitted from the human body in motion and the background space, the FS sensor signals the FS-PP to close its relay and turn on the connected load. After the defined area is vacated and the adjustable time delay (30 seconds to 30 minutes) has elapsed, the sensor signals the FS-PP to open its relay and turn off the connected load.

Hold-off Daylighting

The hold-off daylighting light level feature provides additional energy savings. Once the lights turn off after the time delay has elapsed, this feature holds lighting off upon new occupancy if there is sufficient ambient light available (adjustable from 10-120 fc).

Applications

The FS-205 provides a 360° coverage pattern for up to 200 square feet when mounted at 8 feet. The sensor works well in a small office, cubicle or utility room. The FS-205 is little enough to be easily integrated into even the smallest housings when zonal control of direct/indirect fixtures is required.

Features

- Low-voltage 6-ft. whip with an RJ45 connector for easy installation
- Small footprint fits easily in fixtures
- Adjustable time delay (30 seconds to 30 minutes)
- Fresnel lens for accurate detection patterns
- LED indicator of occupancy detection for easy verification of coverage
- Hold-off daylighting control
- The product meets the materials restrictions of RoHS

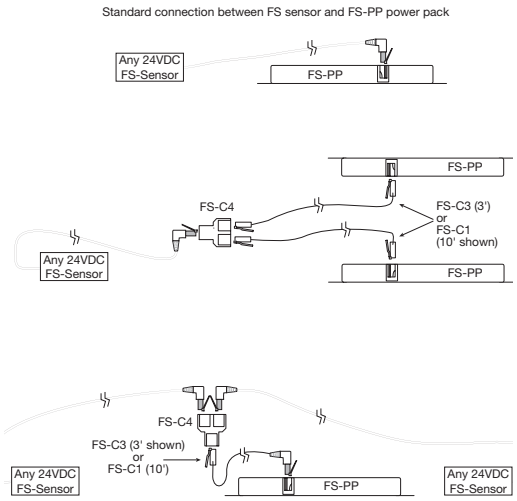
PROJECT		LOCATION/ TYPE	

Specifications

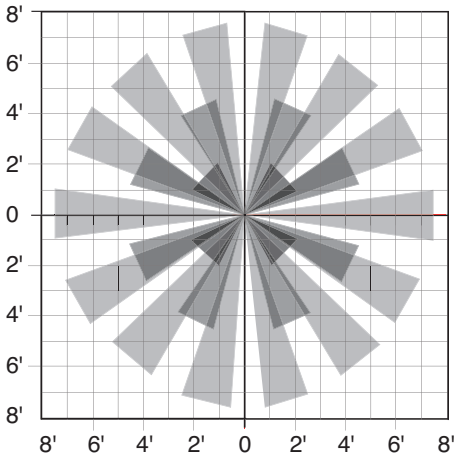
- 24 VDC
- Coverage pattern at 8 ft.: 16' (487.7cm) diameter
- Adjustable time delay (30 seconds to 30 minutes)
- Hold-off daylighting light level, adjustable from 10–120 fc
- Operating temperature 32–131°F (0–55°C)
- Dimensions:
  throat: 0.75" (19mm) diameter
  lens collar: 1.12" (28.5mm) diameter
  lens pipe: .38" (9.7mm)
  sensor body: 1.12" x 1.38" x .5" (28.5mm x 35mm x 12.7mm)
- UL and cUL listed
- Five year warranty

Wiring & Coverage

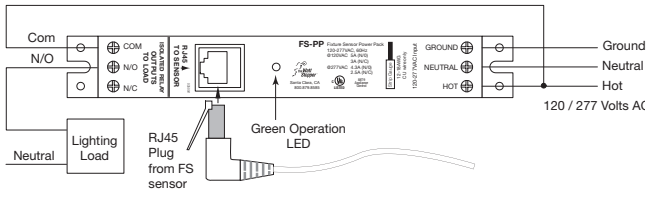
FS Low Voltage Wiring

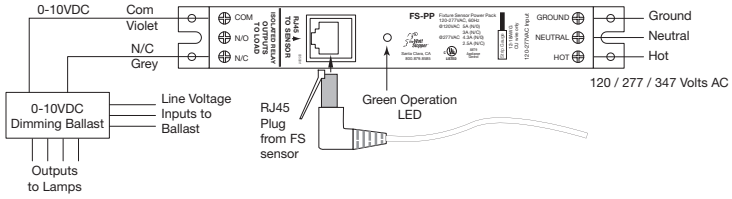


Coverage Pattern @ 8 ft Mounting Height



FS-205 and FS-PP Wiring Diagram





Ordering Information

Catalog #		Description	Load Capacity
☐	FS-205v2	Low Voltage PIR Low Profile Fixture Occupancy Sensor, 24 VDC	Current Consumption 6.5mA
☐	FS-PPv2	Fixture Power Pack 120/277/347 VAC; 60Hz	70mA @ 24 VDC
☐	FS-C1	10' (3.048m) cable with shielded RJ45 male connectors at each end	
☐	FS-C1-20	20' extension cable with shielded RJ45 male connectors at each end	
☐	FS-C2	6" (15.24cm) cable with 3 flying leads at one end and shielded RJ45 male connector on other end	
☐	FS-C2-J	RJ45 override jumper	
☐	FS-C3	3' (0.914m) cable with shielded 90° male RJ45 on one end and shielded straight male RJ45 on other end	
☐	FS-C4	Shielded RJ45 splitter with female to dual female receptacles	
☐	FS-C5	Shielded RJ45 male to male coupler	
☐	FS-C6	24" cable with 90° RJ45 connector and 3 flying leads	

NOTE: The FS-205 Low Voltage Sensor requires an FS-PP or other Wattstopper Power Pack (ordered separately) to operate.

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