

WIDE ANGLE PIR OCCUPANCY SENSOR

| FS-705



Description

The FS-705 Wide Angle PIR Occupancy Sensor controls lighting based on occupancy utilizing passive infrared (PIR) technology. The sensor provides 180 degree coverage and is designed for locations that require wide angle occupancy detection, such as refrigerator and freezer cases, vending machines and aisleway displays.

Operation

The FS-705 is a self-contained, 24 VDC device that operates via a 120, 230 or 277 VAC Wattstopper power pack. By detecting the difference between infrared energy from a human body in motion and the background space within the controlled area, the sensor turns lighting systems on. When occupants leave the controlled area, it switches lighting off after the user-selectable time delay elapses.

Features

- Dual pyro covers more than 40 detection zones
- Coverage pattern adjustable to 12 or 15 feet when mounted 7'6" above the floor
- Time delay selectable to one of four settings (30 seconds, 1 minute, 2 minutes or 8 minutes)
- 180 degree horizontal coverage pattern
- 70 degree vertical coverage pattern
- Low voltage
- LED indicator for occupancy detection
- DIP switch simplifies sensor adjustments
- The product meets the materials restrictions of RoHS

Wide Angle and Sensitivity Range

Equipped with a Fresnel lens and a unique dual pyro, the FS-705 can cover more than 40 detection zones in all directions. Coverage is adjustable to 12 or 15 feet. When mounted at seven feet six inches above the floor, the sensor provides true 180 degree horizontal coverage and 70 degree vertical coverage to efficiently monitor the controlled area. The sensor's time delay adjusts to one of four settings: thirty seconds, one minute, two minutes or eight minutes.

Applications

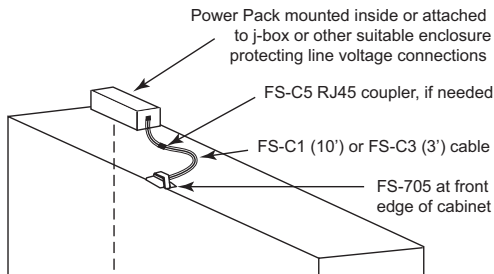
The FS-705 offers excellent control of lighting for locations where wide angle coverage is needed, such as refrigerator and freezer cases, vending machines and aisleways. Its wide coverage pattern detects motion before a person reaches the display area to turn lighting on, and turns off lighting when the area is vacant for the user-adjustable time delay. In cold food aisles, one sensor is typically used per case. It is ideally suited to controlling LED lighting. Sensor performance will provide fast payback and many years of energy savings.

PROJECT	LOCATION/ TYPE

Specifications

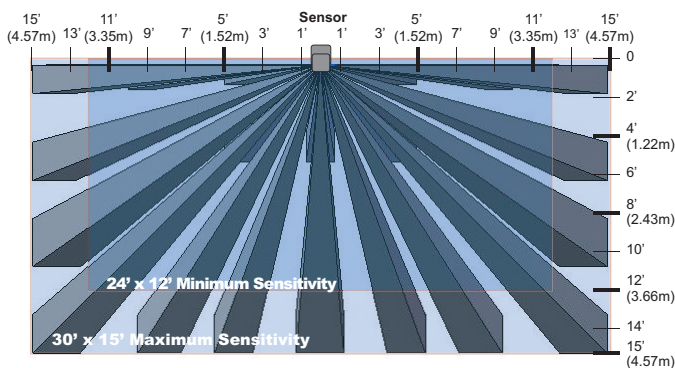
- Power Supply: 24 VDC from Wattstopper Power Pack
- Current consumption: 7mA @ 24VDC
- Weight: 2.11oz (60 grams)
- Detection indication: green LED
- Operating temperature range: 32–131°F (0–55°C)
- Storage temperature range: -22–176°F (-30–80°C)
- UL and CUL listed
- Five year warranty

Mounting

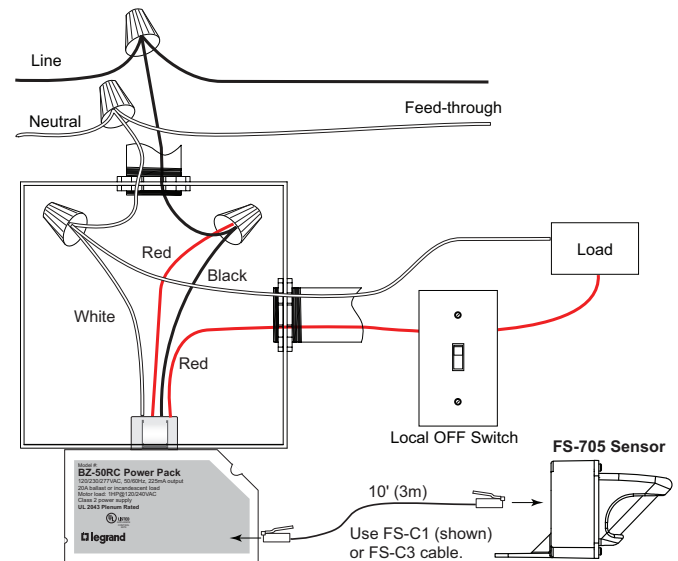


Coverage and Wiring

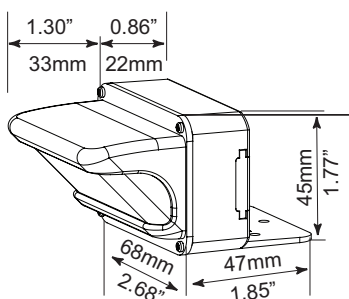
Top View



Wiring with a BZ-50RC Power Pack



Dimensions



Ordering Information

Catalog #	Description
<input type="checkbox"/> FS-705	Wide Angle PIR Occupancy Sensor, 24 VDC
<input type="checkbox"/> FS-C1	10' (3.048m) cable with shielded RJ45 male connectors at each end
<input type="checkbox"/> FS-C1-20	20' extension cable with shielded RJ45 male connectors at each end
<input type="checkbox"/> FS-C2	6' (1.828m) cable with 3 flying leads at one end and a shielded RJ45 male connector on the other
<input type="checkbox"/> FS-C2-J	RJ45 override jumper
<input type="checkbox"/> FS-C3	3' (0.914m) cable with shielded 90° male RJ45 on one end and a shielded straight male RJ45 at the other
<input type="checkbox"/> FS-C4	Shielded RJ45 splitter with female to dual female receptacles
<input type="checkbox"/> FS-C5	Shielded RJ45 male to male coupler
<input type="checkbox"/> FS-C6	24" cable with 90° RJ45 connector and three flying leads