

LOW VOLTAGE ULTRASONIC FIXTURE INTEGRATED OCCUPANCY SENSORS

FS-505/FS-505C

Modular plug system
streamlines installation

Easily integrate into
lighting fixtures

Ideal for stairwell, wall and
ceiling mount applications



Ultrasonic technology for
open area detection with
line-of-sight obstructions

Ceiling and wall mount
models

DESCRIPTION

The FS-505 and FS-505C Low Voltage Ultrasonic Fixture Sensors control lighting based on occupancy. They are designed with a low-profile, architecturally pleasing appearance to easily integrate into a wide range of lighting fixtures or a customized housing. The sensors' modular plug-in system utilizes an RJ45 connector and 3' cord for flexibility and ease of use.

OPERATION

When connected to an FS-PP Power Pack, the FS-505 Series sensors use high frequency (40 kHz) ultrasonic technology to sense motion within a space and automatically turn lights on even when the sensor has no direct line of sight to occupants. After the area is vacated and the time delay has elapsed, the sensors automatically turn the lights off. Ultrasonic detection operates by transmitting sound waves throughout an area and measuring the speed at which they return. Movement increases the return frequency, which triggers occupancy.

The FS-505 Series sensors provide functions for testing, overriding the fixture 'ON' and a 72-hour lamp burn-in mode.

APPLICATIONS

Typical applications for the FS-505 Series sensors include open office cubicles, offices, conference rooms, restrooms and hallways. This technology also provides superior detection in hard surfaced areas, such as stairwells and hallways.

For a large rectangular detection area with ceiling-mounted fixtures, the FS-505C provides excellent coverage. For specialized applications such as stairwells, the elongated coverage pattern of the FS-505 is ideal.

The FS-505 can provide bi-level lighting control in fixtures that have bi-level or dimming ballasts, resulting in up to 66% energy savings for fixtures that are on 24-hours a day, seven days a week, while still providing enough light for safety and egress.

FEATURES

- Ultrasonic technology (40Khz)
- Compact design for installation in low-profile fixtures
- 24 VDC
- Three modes: override, burn-in and test modes

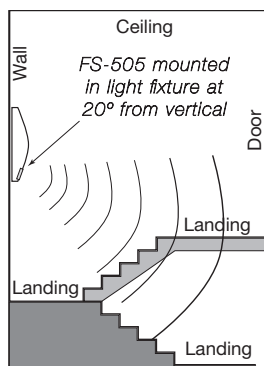
PROJECT

LOCATION/
TYPE

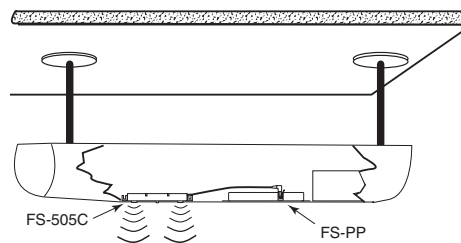
SPECIFICATIONS

- Voltage: 24VDC
- Current Consumption: 43mA
- Power Supply: FS-PPv2 Fixture Power Pack
- Coverage at 8 ft. height
 - FS-555: 24' (731.5cm) diameter
 - FS-555C: 30' x 24' (457.2 x 365.7cm)
- Time Delay: 5–30 minutes
- Operating Temperature: 32–131°F (0–55°C)
- Dimensions: 5.2" x 1.25" x .62" (132.4mm x 32.2mm x 15.7mm)

APPLICATIONS



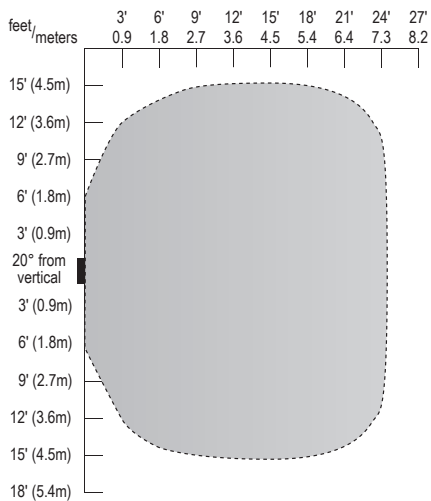
FS-505 Mounted in Stairwell



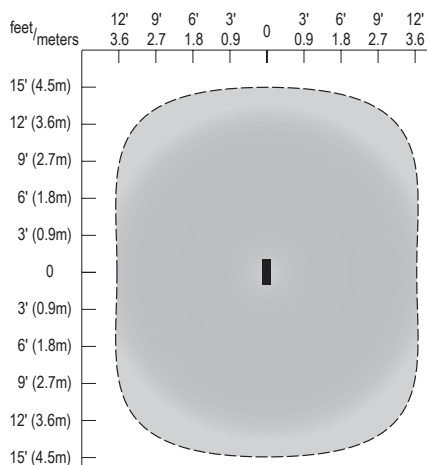
FS-505C in Pendant-mounted fixture

WIRING & COVERAGE

Coverage Patterns @ 8 ft Mounting Height

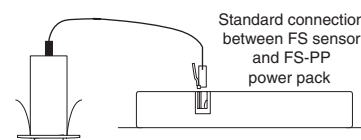


FS-505



FS-505C

FS Low Voltage Wiring Example



ORDERING INFORMATION

Catalog #	Description
<input type="checkbox"/> FS-505	Low Voltage Ultrasonic Fixture Occupancy Sensor for Stairway Applications; 120/277 VAC fixture mount
<input type="checkbox"/> FS-505C	Low Voltage Ultrasonic Fixture Occupancy Sensor for Open Areas; 120/277 VAC fixture mount
<input type="checkbox"/> FS-PPv2	Fixture Power Pack 120/277 VAC; 60Hz