

Wireless PIR Motion Sensor

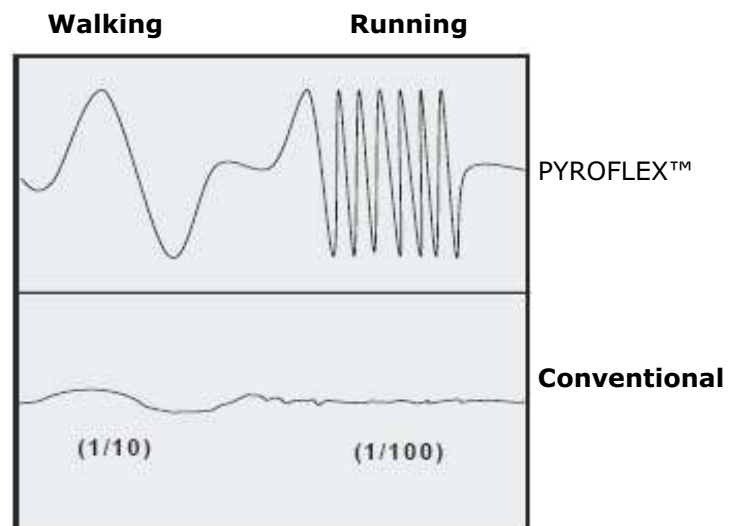


The STWS-PIR Motion Sensor is a supervised, wireless sensor designed to detect movement. The sensor achieves consistent detection and superior false alarm immunity through PYROFLEX™ infrared detection. The STWS-PIR can handle a variety of applications, including coverage for hallways and corridors, large rooms, and pet immunity. Wireless technology makes installation easy by allowing the sensor to be installed anywhere protection is needed.



Features

- PYROFLEX™ infrared detector and advanced HighBar™ intruder detection provide consistent detection sensitivity throughout the monitored area, over the full range of intruder motion speeds.
 - 10x – 100x more signal than conventional detectors
 - Less amplification needed in sensor
 - 10x – 100x less amplification for false alarm signals
 - High immunity to RF, shock, temperature changes, white light, electrical surges
- HighBar™ waveform processing rejects noise. After signal filtering, real pulses are separated from noise by length of time. In the next stage, alternating polarity (+ / -) pulses are required to qualify for an alarm-better than many simple ASIC-based sensors.
- Three-Stage White Light Protection
 - White diffusing lens
 - Clear bug guard – avoids light concentration
 - Large 4 x 5 mm white light filter window on detector, so elements can be far from filter
- Tamper detection switch
- Precise factory calibration for dependable performance
- Micro-current draw for long battery life
- Tightly-mated bug guard to protect the sensor optics from insects, spiders and dust
- Selectable processing sensitivity for different environmental requirements
- LED enable function for testing
- 45-degree corner-mounting surfaces
- Swivel-mount accessory interface
- Special optics resist detection of animals up to 25 lb. (Look-down must be disabled.)



Specifications

Power

- Battery: 3 VDC, CR123A lithium battery
- Average Battery Life: 3-5 years
- Current: 12 μ A @ 3 VDC (no activity detected)

Motion Detection

- Range:
 - Up to 40 feet in sensor-facing direction
 - Up to 40 feet at 45° angle from sensor-facing direction
- Sensitivity: 2-event/2.5 C or 3-event/3.0 C
- Optical Pattern: Long (44), Mid (36), Short (18), (Optional) Look-down (8)

Wireless

- Transmitting Frequency: 319.5 MHz and 345 MHz

- Supervision Interval: 60 minutes
- Transmit Range: Maximum of 500 feet, open air

Environmental

- Operating Temperature: 10°F (-12°C) to 120°F (49°C)
- Max. Humidity: 90% relative humidity, noncondensing

Housing

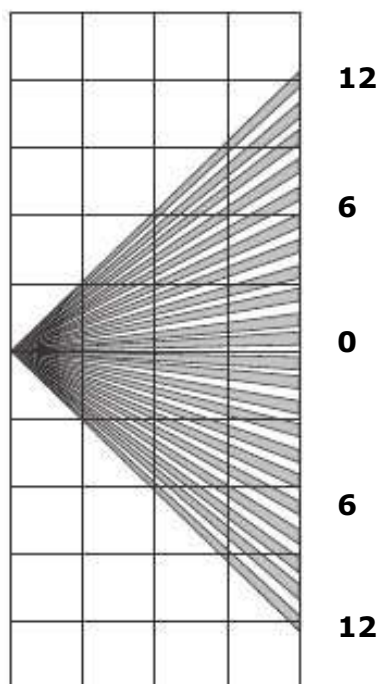
- Dimensions: 3.70" (high) x 1.97" (wide) x 1.65" (deep)
- Material: High-impact ABS
- Mounting: Wall mount
- Color: White

Approvals/Listings

- FCC 15
- UL 639 (Pending)

Optical View Pattern

Top View



Side View

