

SP-215FT PYROFLEX™**

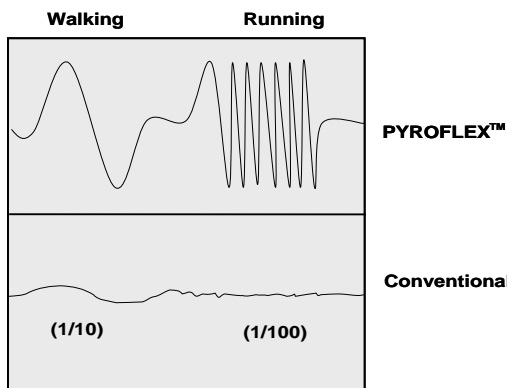
SUREN

PIR Motion Sensor
LonWorks™

Preliminary Data



Security +
Lighting Control



High False Detection Immunity

- ❑ **PYROFLEX™** IR Detector – The False Signal Smasher**
 - 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
- ❑ **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

Reliable Detection

- ❑ **SureSpot™** microcontroller waveform processing is on the watch! Where the complex curves and dips of real signals “fool” other sensors’ ASICs and simple processing, **SureSpot™** processing detects occupants!
- ❑ Summertime detection in near-human temperature environments

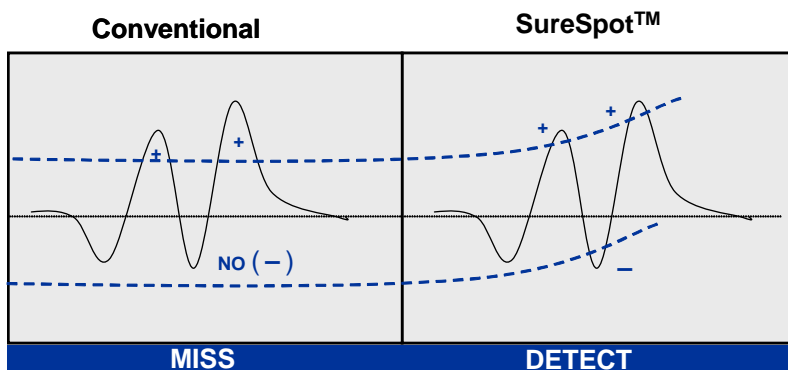
Wide Temperature Range

- ❑ Operation from -30°C to +55°C

** U.S. Patent nos. 7,042,134 7,141,910
Patents pending worldwide.

Easy Installation

- ❑ 45-degree terminal block for easy wiring
- ❑ 10-minute zone finder mode
- ❑ Deep wire channels and dual cable entry
- ❑ 45-degree corner-mounting surfaces
- ❑ Knock-out holes for mounting and wiring
- ❑ Swivel-mount accessory interface

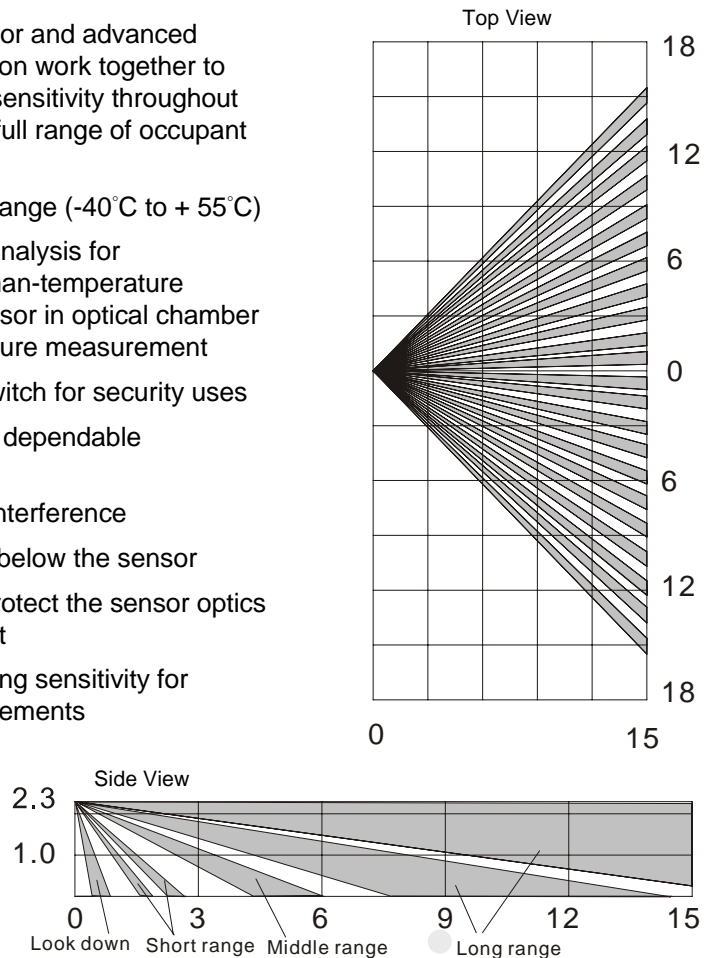


LonWorks™ is a trademark of Echelon Corporation.

Product Features

- ❑ **PYROFLEX™** infrared detector and advanced **SureSpot™** occupant detection work together to provide consistent detection sensitivity throughout the monitored area, over the full range of occupant motion speeds.
- ❑ Wide operating temperature range (-40°C to +55°C)
- ❑ Microcontroller temperature analysis for summertime detection in human-temperature background; temperature sensor in optical chamber for best background temperature measurement
- ❑ Sensitive tamper detection switch for security uses
- ❑ Precise factory calibration for dependable performance of every sensor
- ❑ World-class immunity to RF interference
- ❑ Look-down detection directly below the sensor
- ❑ Tightly-mated bug guard to protect the sensor optics from insects, spiders and dust
- ❑ Selectable detection processing sensitivity for different environmental requirements

Optical View Pattern



Swivel Mount



Specifications

Range:	15 m in sensor-facing direction (max) 21 m at 45° angle from sensor-facing direction (max)			
Power Supply:	Voltage	Current		
	8 – 14 Vdc	14 mA at 12 Vdc		
LonWorks™	Preset Standard Network Variable for Occupancy Sensor			
Neuron	FT3120			
RF Immunity:	30 V/m 10 – 1000 MHz; 10 V/m 1000-2000 MHz			
Sensitivity:	2-event or 3-event			
Temperature Range:	-30°C to +55°C			
EN 50131	Grade 2 (for security uses)			
Housing:	High-impact ABS			
Dimensions:	94 x 50 x 42 mm (H x W x D)			
Optical fields-of-view	Long Range	Mid Range	Short Range	Look-down
	44	12	6	8

All specifications are subject to change without notice.