

PIR Motion Sensors

- Supervised



High False Alarm Immunity

- ❑ **PYROFLEX™** IR Detector**
 - 10x – 100x more signal than ordinary detectors; less amplification needed
 - 10x – 100x less gain for false alarms
 - High immunity to shock, white light, temperature, RF, 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

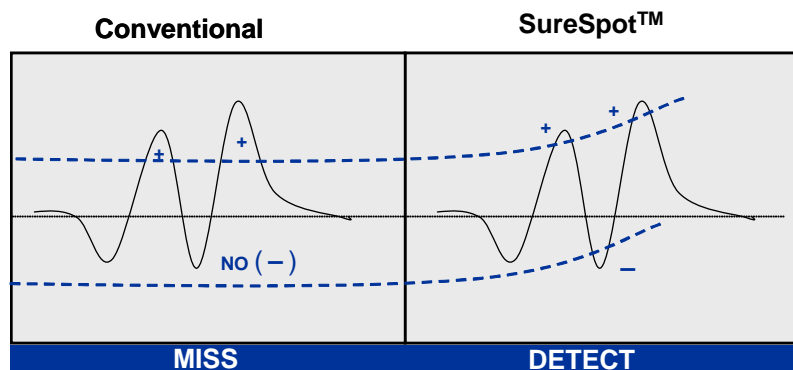
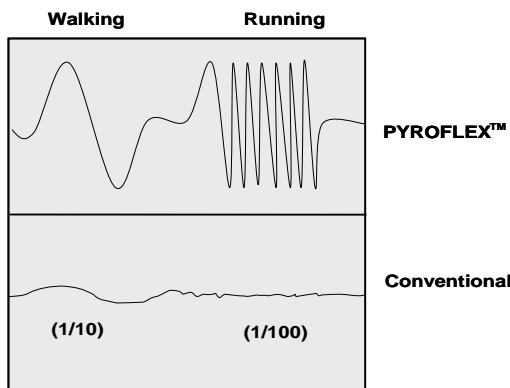
Reliable Detection

- ❑ **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 intruders!
- ❑ Summertime detection in near-human temperature environments

Wide Temperature Range

- ❑ Operation from -40°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 view 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

Product Features

- PYROFLEX™** infrared detector and advanced **SureSpot™** intruder detection work together to provide consistent detection sensitivity throughout the monitored area, over the full range of intruder 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
- Precise factory calibration for dependable performance of every sensor
- World-class immunity to RF interference
- Look-down detection directly below the sensor to catch wall-crawling intruders
- Tightly-mated bug guard to protect the sensor optics from insects, spiders and dust
- Selectable processing sensitivity for different environmental requirements

Supervision Features

- Continuous checking on:
 - power supply voltage range
 - ambient temperature range
- Continuous monitoring of IR detector operational parameters
- Failure indication :
 - Blinking LED
 - Non-closing of alarm relay after any alarm signal event (Note: sensor will NOT initiate an alarm upon failure.)



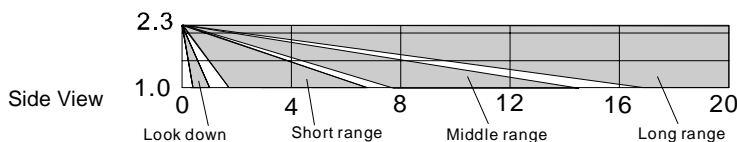
No
Aluminum
Electrolytic
Capacitors



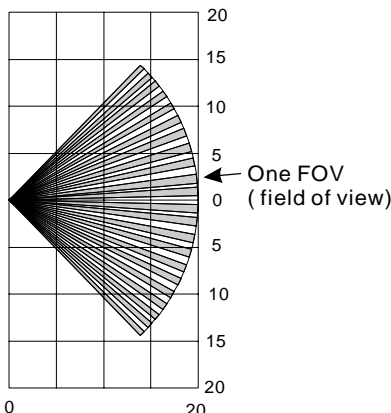
Swivel Mount



Optical View Pattern



Top View



Specifications

Range:	20 m in sensor-facing direction (max) 20 m at 45° angle from sensor-facing direction (max)			
Power Supply:	Voltage	Current		
	8 – 16 Vdc	15 mA at 12 Vdc		
Alarm Relay:	Solid state Form A (NC) 50 mA 30V; 1500 Vrms isolation			
Tamper Switch:	Form A (NC) 50 mA @ 30 Vdc			
RF Immunity:	20 V/m 10 – 1000 MHz; 10 V/m 1000-2000 MHz			
Sensitivity:	2-event or 3-event			
Temperature Range:	-40°C to +55°C			
EN 50131	Grade 2			
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	4

All specifications are subject to change without notice.