

SP-112 PYROFLEX™**

SUREN

PIR Motion Sensor Wired/Wireless Standard/Pet-Immune/Curtain

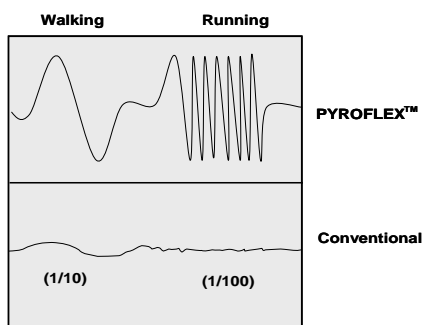


Available Models

SP-112, -112PI, -112C
SP-112W, -112PIW, -112CW

Wireless Features

- ❑ OEM wireless module interface
- ❑ Alarm, Tamper and Test output signals
- ❑ <20 micro-Ampere current draw
- ❑ 3-minute alarm lockout to conserve battery
- ❑ Wide operating range (-40°C to +55°C)



Standard Features

- ❑ Sensitive tamper detection switch
- ❑ Precise sensitivity calibration at factory
- ❑ Look-down detection (except PI versions)
- ❑ Tightly-mated bug guard / optical path
- ❑ Selectable alarm qualification sensitivity
- ❑ LED enable function for testing

High False Alarm Immunity

- ❑ **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.
- ❑ **Four-Stage White Light Protection**
 - White diffusing lens
 - Black absorbing shield
 - Clear bug guard – avoids light concentration
 - Large 4 x 5 mm white light filter window on detector, so elements can be far from filter
- ❑ **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

Pet - Immune Feature

- ❑ **EvenEye™**** Pet-Immune Design (SP-112PI)
 - Micro-element lens
 - Consistent alarm signal threshold

Curtain Feature

- ❑ **SureTrac™**** Constant-Width Curtain (SP-112C)
 - One width for the entire detection range
 - Full 90° vertical coverage

Reliable Detection

- ❑ **HighBar™** waveform processing delivers repeatable detection performance. Detection requires consistent signal size – the signal must cross both thresholds with alternating polarity (+ / -) pulses. **HighBar™** processing detects intruders!

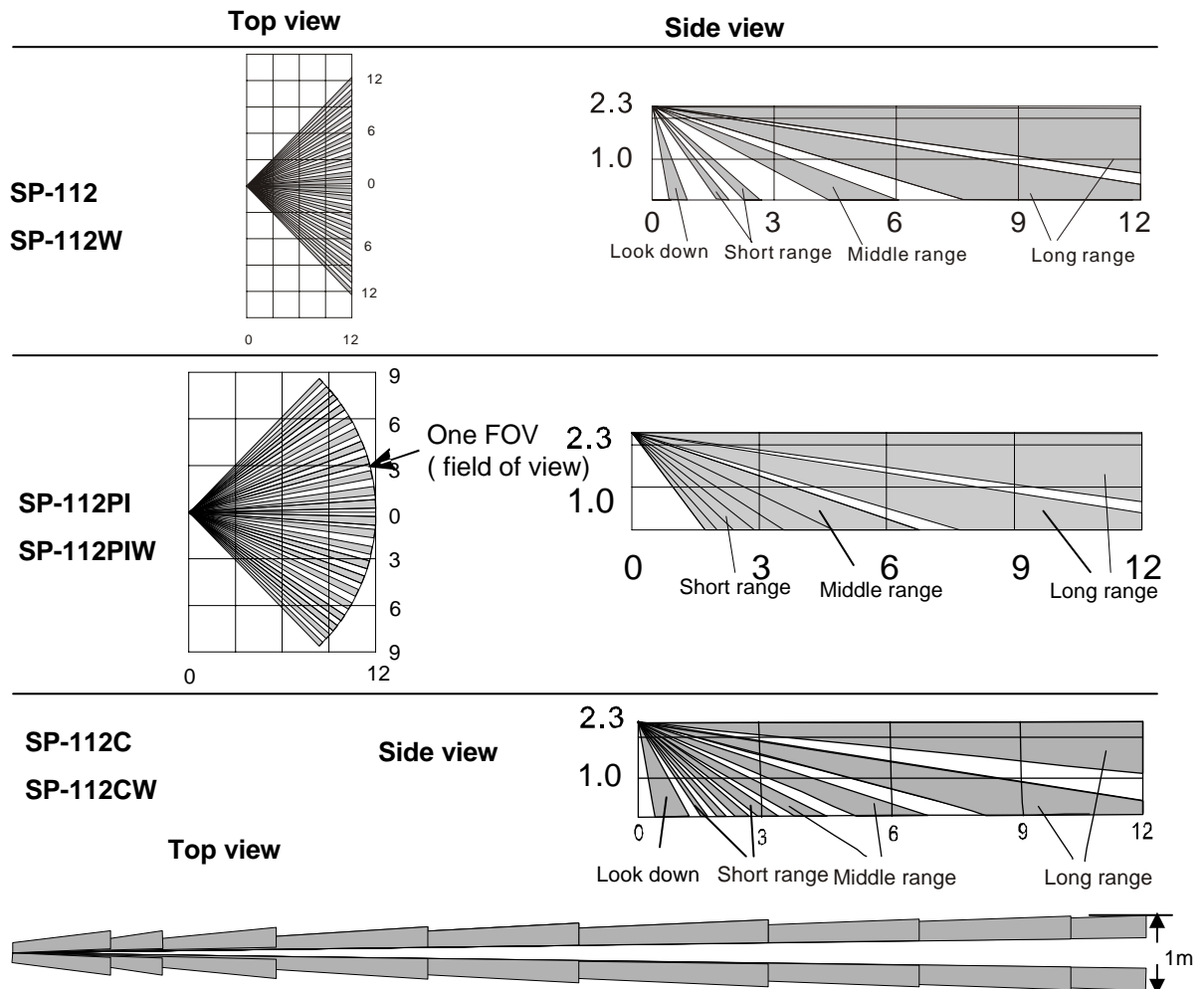
Easy Installation

- ❑ Deep wire channels, dual cable entry
- ❑ 45-degree corner-mounting surfaces
- ❑ Knock-out holes for mounting / wiring
- ❑ Swivel-mount accessory interface

** U.S. Patent NO: 7,042,134 7,141,910

U.K. Patent NO: GB 2 427 270 Patents pending worldwide.

Optical View Patterns



Specifications



**Swivel Mount
MB-100**

All specifications are subject to change without notice.

Range:	12 m in sensor-facing direction				
Power Supply (W)	CR123 battery, 2.7-3.3 Vdc	Current: 12 uA at 3 Vdc			
Power Supply	Voltage range: 8-16 Vdc	Current: 18 mA at 12 Vdc			
Alarm, Tamper, Test (W)	Pull-high/pull-low: Inactive = 0 Vdc; Active = Battery Voltage				
Tamper Switch	Form A (NC) 50 mA @ 30 Vdc				
Alarm Relay	Reed type, 50 mA, 30 Vdc				
Sensitivity:	2-event or 3-event				
Temperature Range:	Wireless: -40°C to +55°C; Wired: -10°C to +55°C				
Qualifications:	EN 50131-2-2: Grade 2				
Housing:	High-impact ABS				
Dimensions:	94 x 50 x 42 mm (H x W x D)				
Optical fields-of-view	Model	Long Range	Mid Range	Short Range	Look-down
	SP-112/SP-112W	44	12	6	4
	SP-112PI/SP-112PIW	44	36	18	
	SP-112C/SP-112CW	4	4	8	2