

SP-012 Dagine™**

SUREN

PIR Motion Sensor

Standard/Pet-immune/Curtain



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
- ❑ **Dagine™**** Detector Amplifier –
 - Digital operation
 - High immunity to RF, shock, temperature changes, white light, electrical surges

Product Features

- ❑ **Dagine™** detector amplifier and advanced **HighBar™** intruder detection work together to provide consistent detection sensitivity throughout the monitored area, over the full range of intruder motion speeds.
- ❑ 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 (SP-012 / SP-012C)
- ❑ Tightly-mated bug guard protects the sensor optics from insects, spiders and dust.
- ❑ Selectable processing sensitivity for different environmental requirements

Easy Installation

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

Pet - Immune Feature

- ❑ **EvenEye™** Pet-Immune Design (SP-012PI)
 - Micro-element lens
 - Consistent alarm signal threshold

Curtain Feature

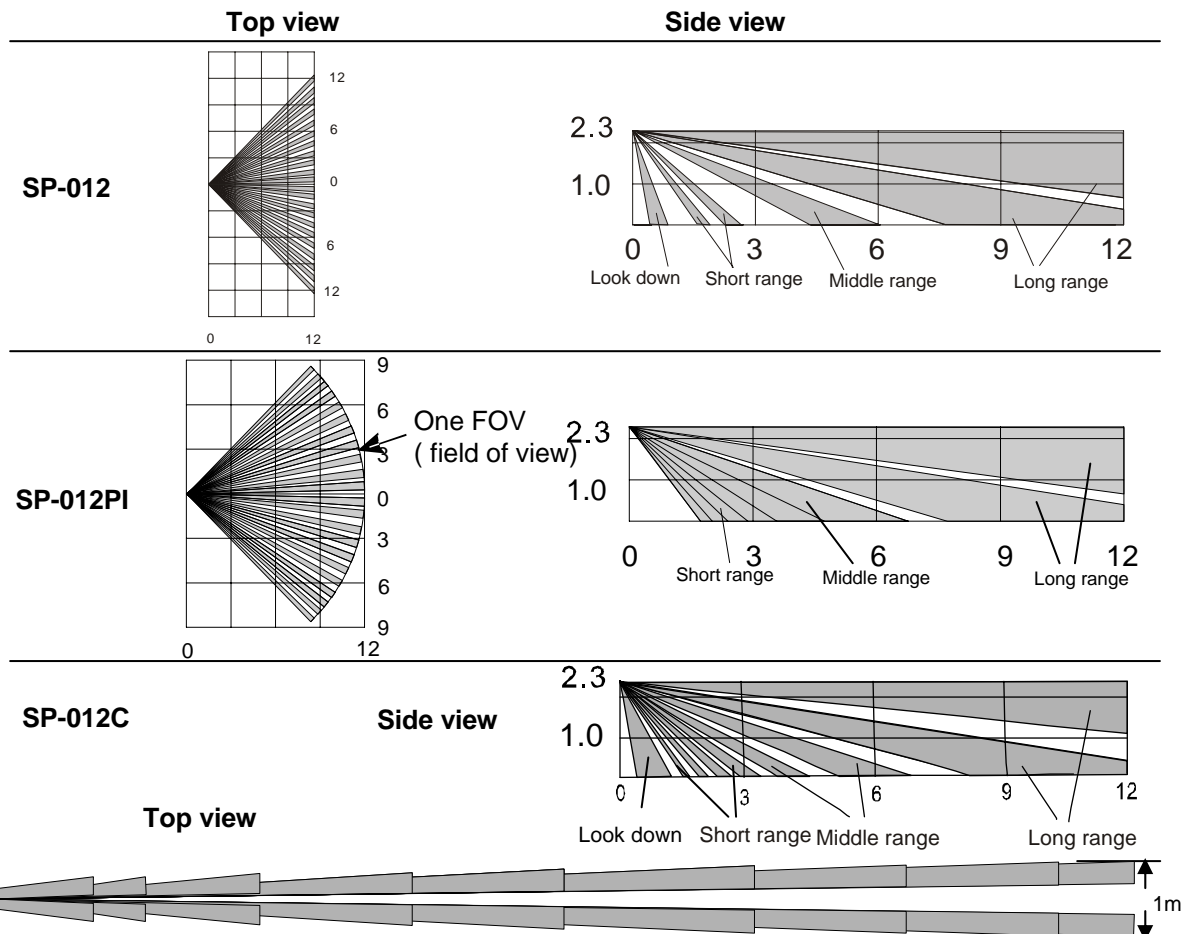
- ❑ **SureTrac™ **** Constant-Width Curtain (SP-012C)
 - One width for the entire detection range
 - Full 90° vertical coverage

Reliable Detection

- ❑ **HighBar™** waveform processing delivers repeatable detection performance.
- ❑ Detection requires consistent signal size – the signal must cross both thresholds with alternating polarity (+ / -) pulses. Other methods (including most ASICs) can create an alarm due to a small signal crossing just one threshold two times. That small signal is often a false alarm.
- ❑ **HighBar™** processing detects intruders!

*** 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:	Voltage	Current		
	8 – 16 Vdc	18 mA at 12 Vdc		
Alarm Relay:	Reed type; 50 mA, 30 Vdc			
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:	-10°C to +55°C			
Qualifications	EN 50131-2-2 Grade 2			
White light immunity	6500lux			
Pet immunity	10Kg (Only SP-012PI)			
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-012	44	12	6	4
SP-012C	4	4	8	2
SP-012PI	44	36	18	