

S-Pod 9

PIR Motion Sensor

SUREN



High False-Detection Immunity

- ❑ **SUREN DSP ASIC** with 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 detection – 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

Smooth “Pod” Design

- ❑ **Blends with room decoration**
- ❑ A quiet sentry, always alert
- ❑ Selectable feature options
 - Wired or wireless
 - Tamper switch
 - Look-Down
 - Temperature compensation

*** Patents pending worldwide.*

Wireless Features

- ❑ **2XAAA battery** – 2 years
- ❑ 6-pin wireless-module connector
- ❑ 3-minute alarm lockout timer

Multi-function Signals

- ❑ Intruder Alarm
- ❑ Housing Tamper (option)
- ❑ Test Mode (wireless option)
 - LED enabled

Easy Installation

- ❑ 45-degree corner-mounting surfaces
- ❑ Knock-out holes for mounting / wiring
- ❑ Swivel-mount accessory interface

Reliable Detection

- ❑ Temperature compensation (option); dual-slope, for best summertime detection.
- ❑ **HighBar™** waveform processing delivers repeatable detection performance, because detection requires consistent signal size – signal must always cross both thresholds with alternating polarity (+ / -) pulses.

Many other sensors can also signal alarms just due to a much smaller signal crossing one threshold several times in succession. This is a common false detection cause.

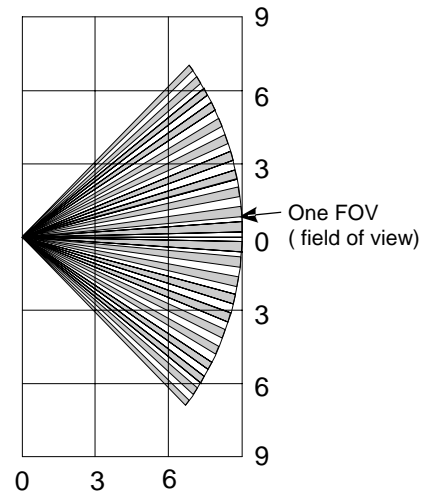
HighBar™ detects intruders consistently, while rejecting small-signal false detection!

Product Features

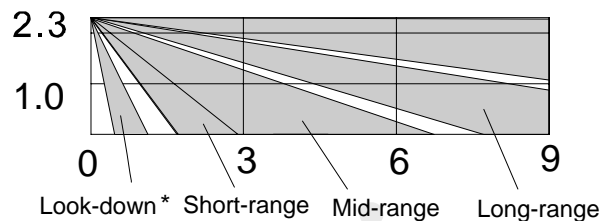
- ❑ **HighBar™** processing and SUREN optics work together to provide consistent detection sensitivity throughout the monitored area, over the full range of intruder motion speeds.
- ❑ Wireless operation * with user-supplied wireless module
- ❑ Sensitive housing-tamper detection * and output signal
- ❑ Dual-slope temperature compensation * for summer
- ❑ Tightly-mated PCBA and housing to protect the sensor optics from insects, spiders and dust
- ❑ Jumper-selectable detection sensitivity for different environmental requirements
- ❑ Jumper-selectable LED Enable for testing
- ❑ Look-down detection * directly below the sensor to catch wall-crawling intruders

Optical View Pattern

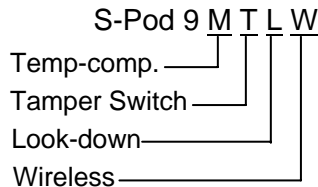
Top View



Side View



* Product Options



Swivel Mount
(MB-100)

Specifications

PIR Detection Range:	9 m in sensor-facing direction 9 m at 45° angle from sensor-facing direction		
Power Supply (W)	2 x AAA battery (2.1 – 3.3 Vdc)	<20 uA current draw	
Power Supply	Voltage range: 8-16 Vdc	Current: 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		
PIR Sensitivity:	2-event or 3-event		
Temperature Range:	-30°C to +55°C		
Qualifications:	EN 50131-2-2 Grade 2		
Housing:	High-impact ABS		
Dimensions:	115 x 62 x 46 mm (H x W x D)		
PIR Optical fields-of-view	Long Range	Mid Range	Short Range
	44	12	6

All specifications are subject to change without notice.