

## Introduction

A professional state-of-the-art power line based motion sensor engineered with the world's best components and materials. Every aspect of these sensors provides the most reliable motion sensing with freedom from false alarms with a complete range around 15 meters providing high sensitivity upto 6 meter and low sensitivity upto 15 meter distance. The sensor includes two motion sensing systems: microwave Doppler motion sensing and DFIR motion sensing, with directional motion sensing to reject false alarms caused by swaying objects. Together, the two systems signals are evaluated by proprietary signal processing algorithms, which reject false alarm conditions while detecting intruders. Constant-motion signals (such as fans) are de-emphasized, and fluorescent light frequencies are digitally removed. The power line (based on ISO 14908 standard) interface allows for remote configuration and sensing of a motion alarm. Coupled with a control system, a sensor may be used create advanced algorithms for a number of applications to either save power or provide better security.

## Features

- Look-down detection directly below the sensor to catch wall-crawling intruders
- Flicker rejection (50/60 Hz)
- Motion detection via power line
- Selectable motion sensitivity (short walk and long walk) and Anti-sway functionality using jumper for different environment
- Adjustable microwave range (20%-100%) and its sensitivity using jumper
- Tamper detection
- IP 65 Construction
- Smart server or any other network management tool can find that sensor is in alarm state or normal state and can also find number of times alarm state occurred since from the time sensor turned on. So it can take action based on predefined rules

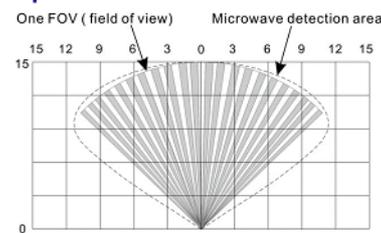


## Applications

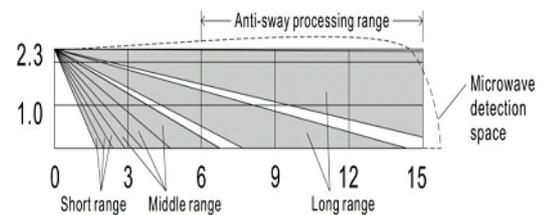
- Program Advanced Dimming and On/Off Algorithms
  - Commercial/Industrial Lighting
  - Parking Garage
  - Street Lighting
- Security Camera Activation

## Optical Viewing Pattern

Top View



Side View



## Specifications

Range	High sensitivity upto 6 meter and low sensitivity upto 15 meter from sensor-facing direction		
Power Supply	90V to 277V, 0.2A		
Microwave Operating Frequency	Around 10 GHz		
RF Immunity	20 V/m 10-1000 MHz, 10 V/m 1000-2000 MHz		
White-light Immunity	25,000 lux		
Environmental	-30° to +55°C operation, IP65 Polycarbonate housing		
Storage	-40° to +60°C		
PL Chip	PL - 3120		
PL Communication Protocol	ISO/IEC 14908 - 1		
Dimensions	240 x 115 x 185mm		
Optical Field-of-view Count:	Long Range - 88°	Mid Range - 38°	Short Range - 26°

For more detailed information visit <http://energy.slscorp.com> or send us an email to [energy@slscorp.com](mailto:energy@slscorp.com)

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