

SP814 Motion Detector



Z-Wave series



Features

- Adopt Z-Wave protocol to secure the success of wireless two way communication
- Easy install and can corner mount
- Configurable PIR detection sensitivity
- Configurable illumination detect threshold
- With 2 changeable Lens so the device can wall mount or ceiling mount
- Low battery indication
- Z-Wave V5.02
- Z-Wave Certificated No ZC08-09100003(EU) ZC08-11100007(US)
- Built in light sensor to simulate lighting control application
- FCC part15.249 / EN300 220-1/ NCC certification



Introduction

The Motion Detector is designed with two detecting sensors, Passive Infra-Red (PIR) sensor and light sensor, to detect movement within a protected area, operating at 868.42 , 908.42, and 921.42 MHz.

The detector can be used as a security device or home automation device. When the detector is cooperated with security appliances, the detector is acting as a security device by detecting changes in infra-red radiation levels. If a person moves within or across the devices field of vision, a trigger radio signal will be transmitted to cause full alarm condition in order to frighten intruders away. Alternatively, when the detector is worked with Z-Wave Controller , the detector can be set to perform the role of home automation device by detecting both changes in infra-red radiation levels and percentage of lux levels. Once night falls, the percentage of ambient illumination is lower than preset value. If a person moves within or across the devices field of vision, a trigger radio signal will be transmitted so as to turn connected lightings for better illumination.

Two mounting methods are provided for varying detection range. The detector can be mounted on a wall for farther detecting distance but narrower coverage; while for ceiling mounting, shorter detecting distance can be made but desired coverage can be expected at user's disposal.

Specification

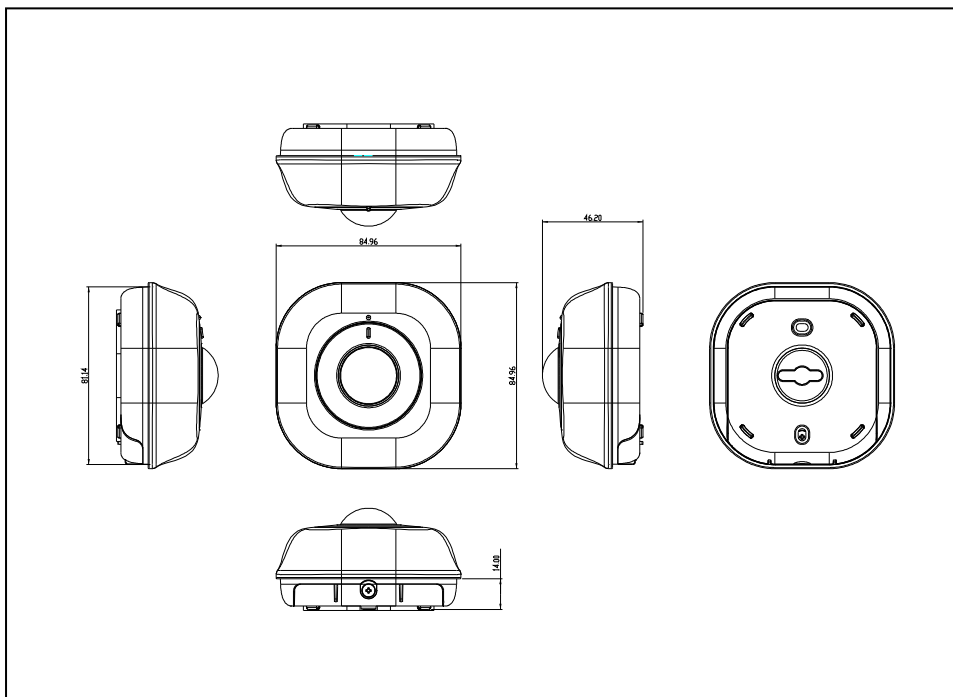
Power	Operating Voltage Standby current Operating current Low battery voltage Shut down Voltage	1.5V AA size x 3 80 uA 40mA 3.4V 3.0V
RF	Frequency Regulation Distance	908.42(USA)/868.42 (EU)/921.42(AU) MHz FCC part15.249 / EN300 220-1/ 30M indoor 70M outdoor
Mechanical	weight Dimension (W x H x D)	100g (without battery) 85x85x46 mm
Battery	Battery life	2400mAh 1 years
Environment	Operation Temperature Humidity	0 ~ 40° C 85%RH max
PIR detection angle	Lens-1 (wall mount) @1.8m high Lens-2 (Ceiling mount) @2.8M high	110° 10M 360° 5M

EVERSPRING GROUP

Chromagic Technologies Corporation

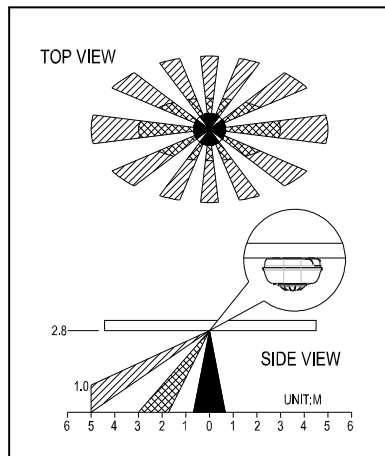
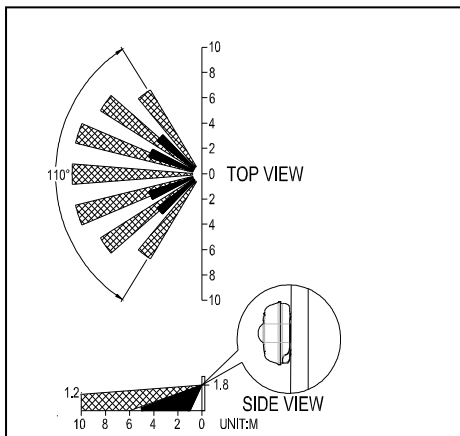
Dimension

unit:mm



Placement

PIR pattern



Application:

- Home Security
- Home Automation
- Energy Saving

