

# Home Automation

## - HSP02 Motion Detector

Z-Wave Series



### Specification Sheet

#### Features

- Adopt Z-Wave protocol to secure the success of wireless two-way communication
- With Tamperproof protection
- Easy to install and can corner mount
- Low battery indication
- Very low power consumption
- Adjustable PIR detection pattern and sensitivity
- Built-in light sensor to simulate lighting control application
- Z-Wave V5.02
- Z-Wave Certified No. ZC08-11100010(EU)
- Certifications:

CE EN300220-1/-2+EN301489-1/-3  
FCC Part 15B+C



#### 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.

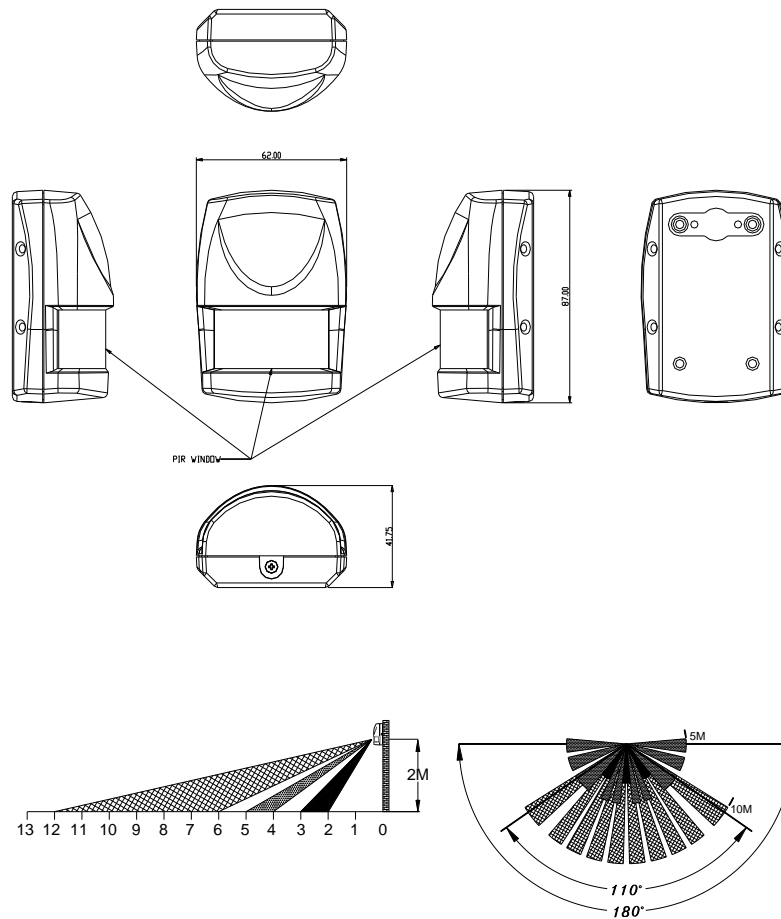
#### Specification

<b>Power</b>	Operating Voltage	3 V (CR2)
	Standby current	21 uA
	Operating current	20mA
	Low battery voltage	2.7V
	Shut down Voltage	2.6V
<b>RF</b>	Frequency	868.42 (EU)
	Regulation	FCC part15.249 / EN300 220-1/
	Distance	Indoor 30M, outdoor 100M, Minimum 30 m line of sight
<b>Mechanical</b>	weight	55 g (without battery)
	Dimension (W x H x D)	62x87x42 mm
<b>Battery</b>	CR2	900mAh
	Battery life	1 year @condition 2
<b>Environment</b>	Operation Temperature	0 ~ 40° C
	Humidity	85%RH max
<b>PIR</b>	Coverage	Wall-Mounted: Up to 10m x110 (at 1.8m mounting height & 25°C)
<b>Detection</b>		
<b>Coverage</b>		

**Condition 1.** Sensor to Z-Wave Controller in any direction at open space

**Condition 2 .** At normal connect situation and trigger 10 times per day

**\*\*Specifications are subject to change without notice.**

**Dimension and Placement****Unit: mm****PIR Pattern****Application:**

Home Automation  
Home Security

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