

# WIRELESS OCCUPANCY SENSOR

**HON-MS-SZ-0A0-W**

The Honeywell Wireless Occupancy Sensor is a wireless, battery-powered solution designed to detect human presence or motion in an indoor area. It operates on Passive Infrared (PIR) technology to detect the heat (IR radiation of 9.5 μm) from people moving within an area to determine when space is occupied. This sensor transmits the occupancy data wirelessly to the Honeywell's DALI Light Controller.

This is packaged in a kit that includes one wireless occupancy sensor with 3V battery installed and mounting plate.

The sensor uses Zigbee communication for communicating with Gateway or nearest Dimming Controller. The PIR based sensor sends occupancy sensor data details to DALI controller in Lighting Management solution. The Sensor receives configuration details from the commissioning app through the Honeywell Gateway.



Figure 1: Honeywell Wireless Occupancy Sensor

## FEATURES

- Quick and easy installation by press fit ceiling mounting
- Operates on Passive Infrared technology for motion detection
- 360° coverage range from sensing range of 5m with field-of-view of 90°
- Uses built flash memory to store device settings
- Multiple sensors can be added for extended coverage
- In-built 2.4Ghz chip antenna
- 10-year Battery life design
- 5-year limited warranty

## COMPATIBLE DEVICES

- For use with Honeywell's products only
- Supports Honeywell's Lighting Management Solution

# TECHNICAL SPECIFICATIONS

## WIRELESS OPERATING PARAMETERS

Operating Frequency	ISM 2.4-2.4835 GHz
Protocol Supported	Zigbee IEEE 802.15.4 (Communication Protocol)
Transmit Power Output	+4dBm
RF Data Rate	250Kbps Max
Receiver Sensitivity	-17 dBm

## POWER/PERFORMANCE

Operating Voltage	3V
Operating Current	14 $\mu$ A Nominal
Battery	CR 123 Lithium Battery (CR123A)
Battery Life	10 Years
Memory	Non-Volatile

## ENVIRONMENTAL PARAMETERS

Storage Temperature	-40°C to 85° C
Operating Temperature	0°C to 55° C
Relative Humidity	Less than 90% Non-condensing

## CERTIFICATIONS

CE Certified

## PIR DETECTION PATTERN

AREA SENSING IMPLIES SENSING OF MOTION IN A SPECIFIC FIELD OF VIEW (FOV).

FOV for Top View	$94/2 = 47^\circ$
FOV for Side View	$82/2 = 41^\circ$

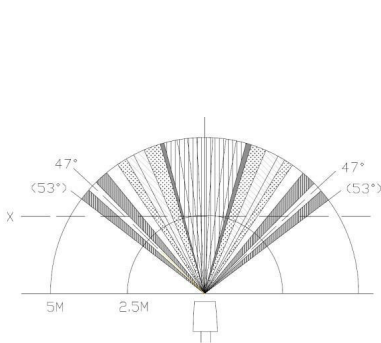


Figure 2: FOV for top view

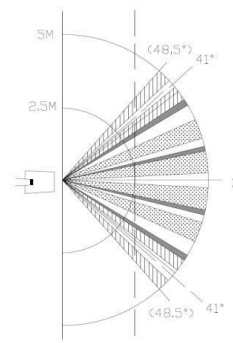


Figure 3: FOV for side view

## PACKAGING INFORMATION

Product Dimensions	90mm x 47mm x 23mm
Housing Material	ABS Plastic
Rating	IP 20
Warranty	5 Years Limited Warranty

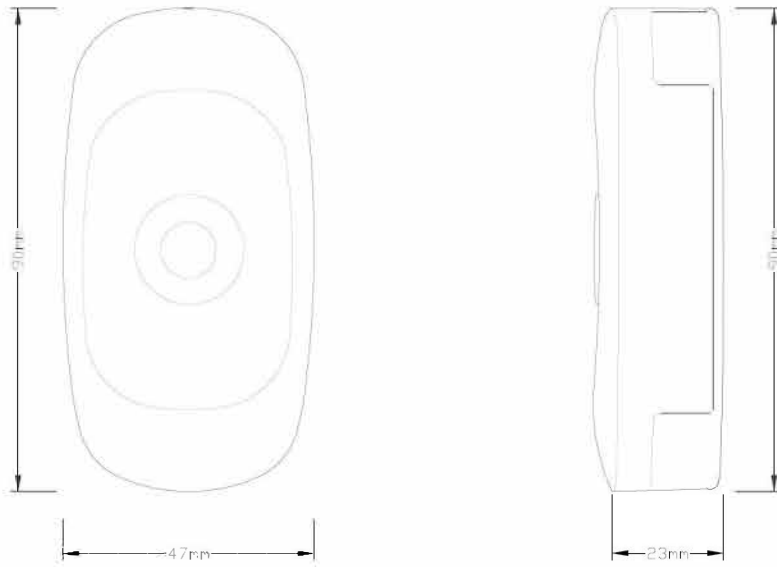


Figure 4: Product Dimension - Top & Side view

For more information,  
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