



# SAL SMS806WF Mantis Multi Function Sensor User Guide

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**SAL SMS806WF Mantis Multi Function Sensor**



## Product Information

### Specifications

- **Model No.:** SMS806WF
- **Input (V)/(Hz):** 240/50
- **Detection Motion Speed:** 0.6~1.5 (m/s)
- **Max. Detection Range:** 18m (SMS806WF) / 15m (SMS806WF/BK)
- **IP Rating:** IP66
- **Sensor Type:** PIR or PE
- **Mounting:** Ceiling or wall
- **Color:** Grey (SMS806WF) / Black (SMS806WF/BK)

### Product Usage Instructions

#### MANTIS SMS806WF



Multifunction PIR Sensor with photocell and override functions – surface mount IP66

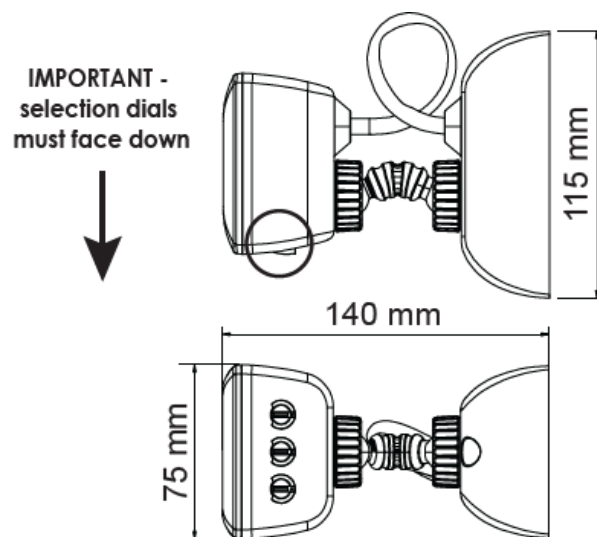
### Application

The MANTIS SMS806WF is a multifunction PIR sensor with photocell and override functions. It is designed for versatile residential and commercial sensor applications. Versatile residential and commercial sensor applications

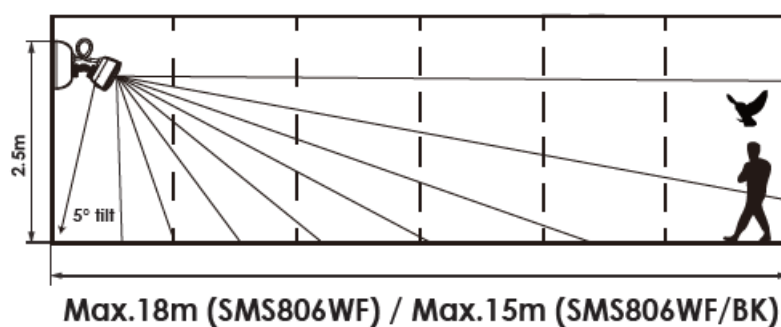
### Design Specifications

- **Dimensions:** 140mm x 75mm x 115mm
- **IP Rating:** IP66
- **Mounting:** Surface mount
- 3 wire design for interior or exterior use in a choice of GREY or BLACK
- Selectable dusk to dawn (PE) or motion sensor control functions
- Manual override function
- Sensitivity, time, light level or PE cell adjustments can be set manually or via the optional remote control
- Maximum loads (LED) 500W, (CFL) 1000W,(Halogen) 2000W
- Detection angle 110° up to 18 metres at a height of 1.8 – 2.5hm (Black model detection range 15 metres).
- The controller (SMS806WF/RC) contains batteries and is designed for trade use only.

## Dimensions



## Detection range



## Technical Specifications

Model No.	Input (V)/(Hz)	Detection Motion Speed	IP Rating	Sensor Type	Mounting	Colour
SMS806WF	240/50	0.6~1.5 (m/s)	IP66	PIR or PE	Ceiling or wall	Grey
SMS806WF/BK	240/50	0.6~1.5 (m/s)	IP66	PIR or PE	Ceiling or wall	Black

## Installation

1. Ensure that the selection dials are facing down before installation.
2. Choose a suitable location for mounting the sensor on either the ceiling or wall.
3. Securely attach the sensor using appropriate screws or mounting brackets.

### Usage

The MANTIS SMS806WF is equipped with a detection range of 18m (SMS806WF) or 15m (SMS806WF/BK). It can detect motion speeds ranging from 0.6 to 1.5 m/s. When the sensor detects motion, it will trigger the desired action, such as turning on lights or activating an alarm system. The photocell function allows the sensor to detect ambient light levels and adjust its sensitivity accordingly. The override function allows manual control of the sensor's operation, overriding its automatic detection and enabling continuous operation.

## SENSOR SMS751ELV



Microwave ELV motion corridorSTANDBY sensor IP20

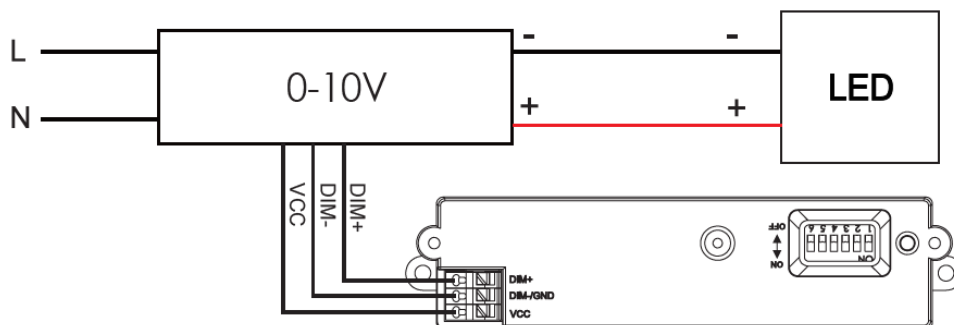
### Application

Versatile microwave corridorSTANDBY sensor. SAL factory fitted sensor option for approved products only, not for individual sale

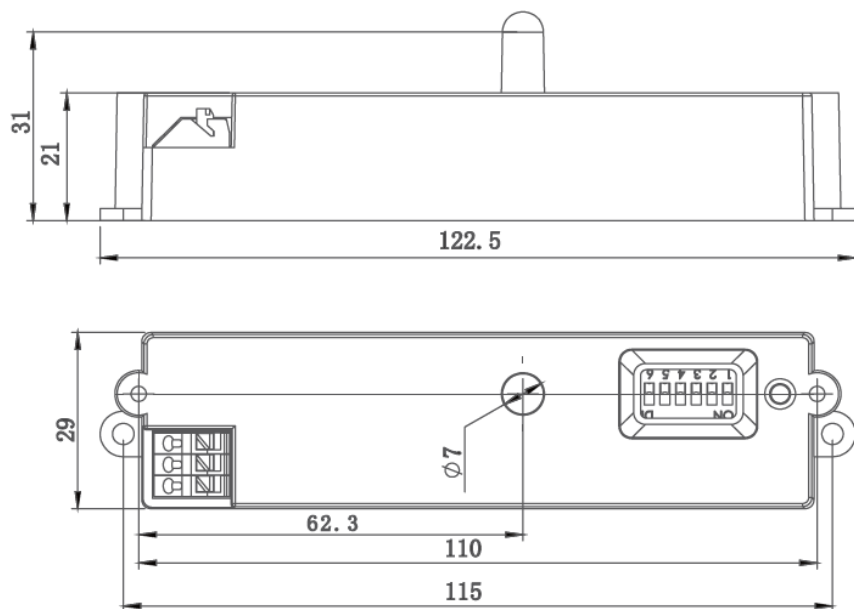
### Design Specifications

- **Power source input:** 12-24V DC, output 0-10V DC, 30mA sinking current
- Detection radius max 8m, angle 360°, max 2.5hm
- Power consumption <0.5W
- **HF system:** 5.8GHz

### Wiring Diagram



### Dimensions



## Technical Specifications

Model No.	Output (V DC)	Dim Control Output	IP Rating	Mounting	Colour
SMS751ELV	0-10	0-10V Max.30mA sinking current	IP20	Factory fitted	White

## SENSOR SMS761

Daylight harvesting sensor IP20



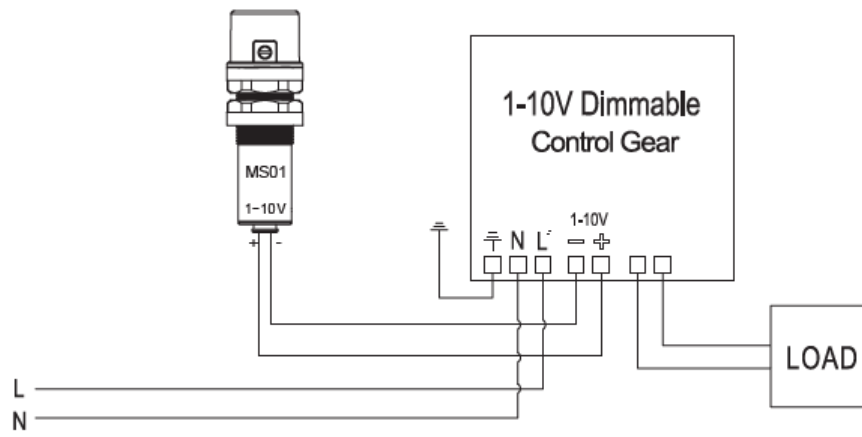
## Application

Innovative recessed daylight harvesting sensor

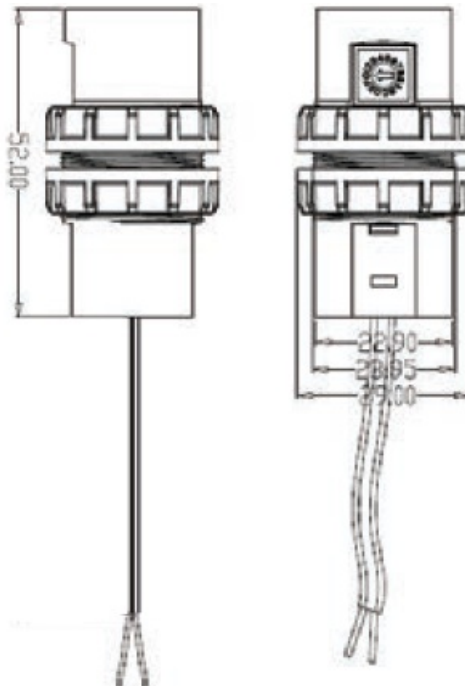
## Design Specifications

- **Operating voltage:** 1-10Vdc
- Maximum quantity of connected devices is 30 or a maximum current sink of 50mA
- **Dimming range:** 1%~100%
- **Colour coding of cable:** Red+, Black-
- **Cable length:** 80cm
- **Detection angle:** 90°

## Wiring Diagram



## Dimensions



## Technical Specifications

Model No.	Output (V DC)	Detection Angle	IP Rating	Mounting	Colour
SMS761	1-10	90°	IP20	Recessed	Grey

Check out the HIGHBAY section of this catalogue for a range of super low profile dimmable LED highbays with sensor control; ideal for commercial or industrial warehouse spaces.

## SENSOR SMS803CD



Infrared occupancy sensor, surface or recessed

### Application

Recessed or surface mount infrared interior sensor

### Design Specifications

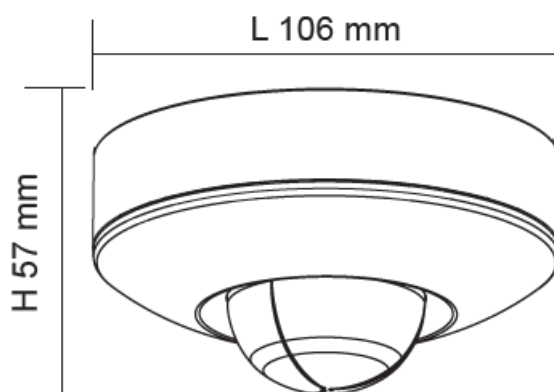
Switched power 2000W incandescent, 600W Fluorescent, 300W LED

- Standby power <1W
- Detection distance Max. Ø 18 m at 3hm, detection angle 360°
- Duration Time / 10sec / 40min adjustable
- Dusk to Dawn adjustable

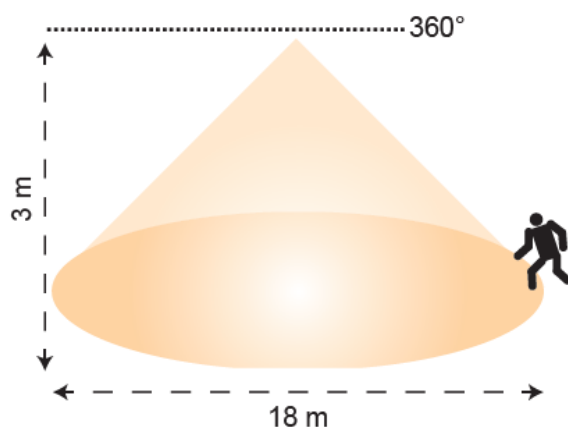
### Manual override mode

When the lamp(s) is switched on, turn the lamp(s) off/on twice within 3 seconds, the sensor will go to an 8 hour override mode, during which the lamp(s) will stay on. The sensor will then return to normal detection mode. During override mode, turn the lamp(s) on/off twice within 3 seconds or turn off the lamp(s) for over 10 seconds, the sensor will return to normal detection mode

### Dimensions



## Detection range



## Technical Specifications

Model No.	Input (V)/(Hz)	Detection Range	IP Rating	Type	Mounting	Colour
SMS803CD	240/50	18m Max. at 3m	IP20	Infrared	Surface mount or recessed	White

## SENSOR SMS804CR



Infrared sensor – recessed

### Application

Versatile IP20 recessed sensor designed for residential and commercial applications

### Design Specifications

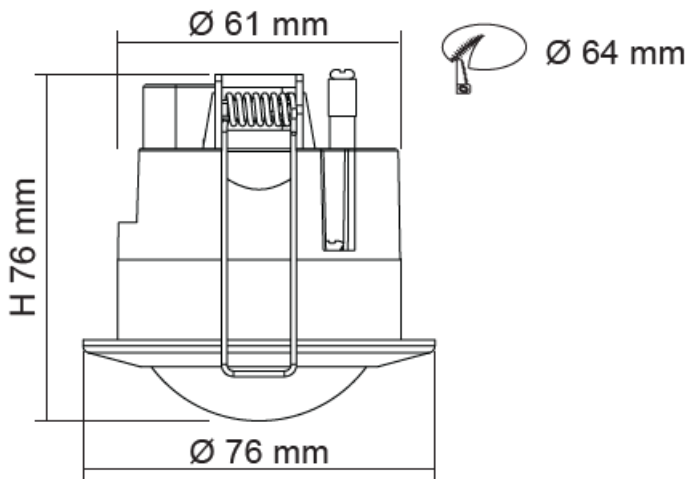
- Switched power 2000W incandescent, 500W fluorescent, 300W LED
- Standby power <1W
- Detection distance Max. Ø 9m at 3hm
- Detection angle 360°, Duration Time / 10sec / 4min adjustable
- Dusk to Dawn adjustable

### Manual override mode

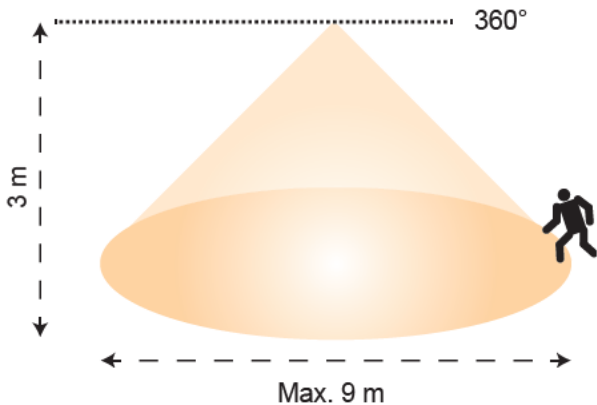


- When the lamp(s) is switched on, turn the lamp(s) off/on twice within 3 seconds, the sensor will go to an 8 hour override mode, during which the lamp(s) will stay on. The sensor will then return to normal detection mode.
- During override mode, turn the lamp(s) on/off twice within 3 seconds or turn off the lamp(s) for over 10 seconds, the sensor will return to normal detection mode

### Dimensions



### Detection range



### Technical Specifications

Model No.	Input (V)/(Hz)	Detection Range	IP Rating	Type	Mounting	Colour
SMS804CR	240/50	9m Max. at 3hm	IP20	Infrared	Recessed	White

### SENSOR SMS805CS



Infrared sensor – surface mount

## Application

IP20 surface mount sensor designed for residential and commercial spaces

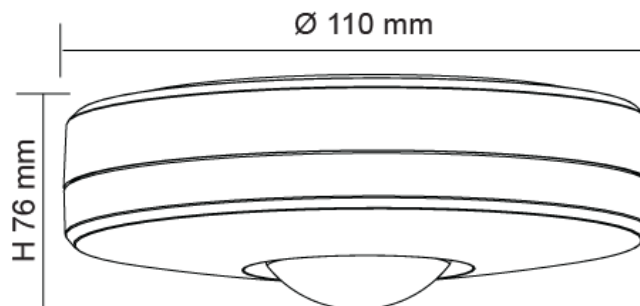
## Design Specifications

- Switched power 1600W incandescent, 500W fluorescent, 200W LED, colour white
- Standby power <1W
- Detection distance Max. Ø 12m at 3hm
- Detection angle 360° , Duration Time / 10sec / 4min adjustable
- Dusk to Dawn adjustable

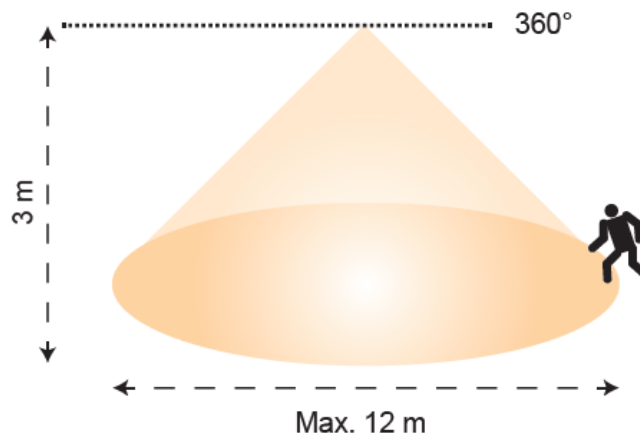
## Manual override mode

- When the lamp(s) is switched on, turn the lamp(s) off/on twice within 3 seconds, the sensor will go to an 8 hour override mode, during which the lamp(s) will stay on. The sensor will then return to normal detection mode.
- During override mode, turn the lamp(s) on/off twice within 3 seconds or turn off the lamp(s) for over 10 seconds, the sensor will return to normal detection mode

## Dimensions



## Detection range



## Technical Specifications

Model No.	Input (V)/(Hz)	Detection Range	IP Rating	Type	Mounting	Colour
SMS805CS	240/50	12m Max. at 3hm	IP20	Infrared	Ceiling mount	White

## SENSOR SMS807CR



PIR Sensor – recessed mount, 40mm cut-out

### Application

Versatile residential and commercial sensor

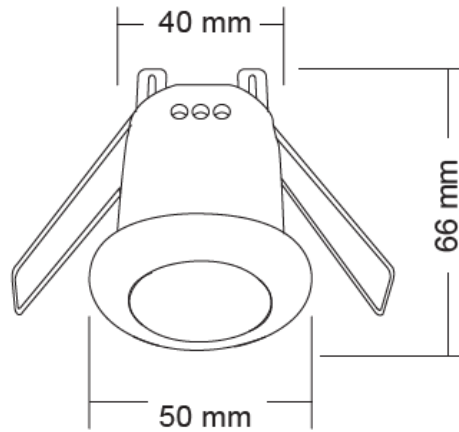
### Design Specifications

- Switched power 800W incandescent, 400W fluorescent, 300W LED
- Standby power <0.5W
- Detection distances: Max. Ø 6.0m at 4.0hm. Max. Ø 4.0m at 2.2hm.
- Detection angle 360°,
- Adjustable time delay Min. 10sec / Max. 7min
- Adjustable light (lux) sensitivity <10 – 2000 lux
- Manual override function, low profile white design, Ø 40mm cut-out

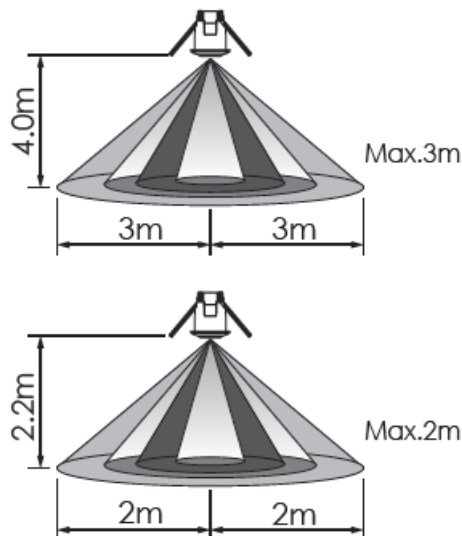
### Manual override mode

- When the lamp(s) is switched on, turn the lamp(s) off/on twice within 3 seconds, the sensor will go to an 8 hour override mode, during which the lamp(s) will stay on. The sensor will then return to normal detection mode.
- During override mode, turn the lamp(s) on/off twice within 3 seconds or turn off the lamp(s) for over 10 seconds, the sensor will return to normal detection mode

## Dimensions



## Detection range



## Technical Specifications

Model No.	Input (V)/(Hz)	Detection Motion Speed	IP Rating	Sensor Type	Mounting	Colour
SMS807CR	240/50	0.6~1.5 (m/s)	IP20	PIR	Recessed	White

So what is the difference between MW, IR or PIR sensors?

Microwave sensors detect motion by projecting microwaves, which bounce off surfaces and returns the signal to the controlling sensor; IR sensors emit in order to identify heat or movement of an object measuring only infrared radiation and a PIR sensor measures infrared light radiating from objects in its field of view.

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## FAQ

1. **Q: What is the IP66 rating for?**

**A:** The IP66 rating indicates that the sensor is protected against dust and powerful water jets, making it suitable for both indoor and outdoor use.

2. **Q: Can the MANTIS SMS806WF be used in residential settings?**

**A:** Yes, the MANTIS SMS806WF is designed for versatile residential and commercial sensor applications.

3. **Q: How do I adjust the detection range of the sensor?**


**A:** The detection range of the sensor is fixed and cannot be adjusted.

4. **Q: Can I manually control the sensor's operation?**

**A:** Yes, the MANTIS SMS806WF has an override function that allows manual control of its operation.

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## Documents / Resources

	<p><a href="#">SAL SMS806WF Mantis Multi Function Sensor</a> [pdf] User Guide</p> <p>SMS806WF Mantis Multi Function Sensor, SMS806WF, Mantis Multi Function Sensor, Multi Function Sensor, Function Sensor, Sensor</p>
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## References

- [Welcome to SAL - Lighting a Smarter Future - SAL](#)
- [User Manual](#)