

SMARTER LIGHTING CHOICES



SAL Lighting a Smarter Future  



2026/28





An innovative selection of microwave and PIR interior and exterior sensors.



DAYLIGHT HARVESTING SENSOR SMS761

Daylight harvesting sensor IP20

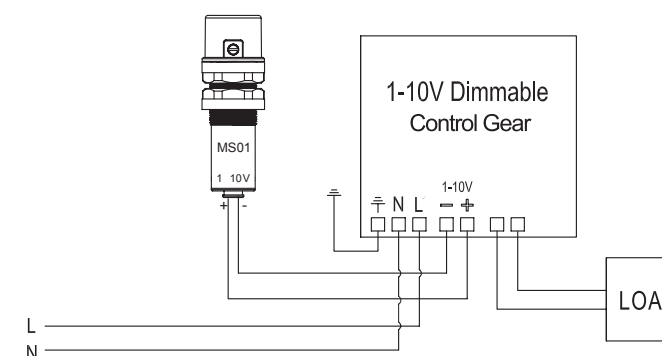
Application

Innovative recessed daylight harvesting sensor

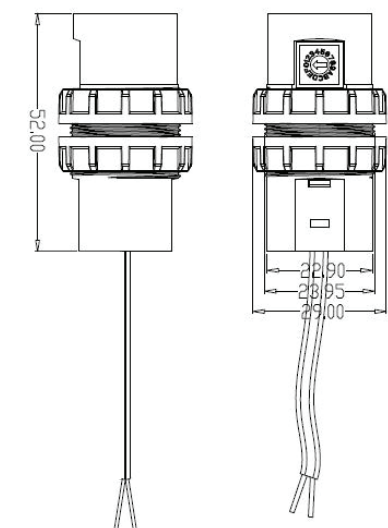
Design Specifications

- Operating voltage: 1-10V DC, the sensor must be installed with an active 1-10V dimming power source
- Note: maximum quantity of connected devices is 30 or a maximum current sink of 50mA
- Dimming range: 1%~100%, 15 x adjustable light level sensor settings
- Colour coding of cable: Red+, Black-
- Cable length: 80cm, Ø 24mm cut-out
- Detection angle: 90°, @3hm

Wiring Diagram



Dimensions



Performance

- In Built Sensor - YES



Technical Specifications

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

For terms of catalogue data use, refer to INDEX



MW SENSOR
SMS800

Microwave motion sensor IP20

Application

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

Design Specifications

- Switched power 1000W incandescent, 300W Fluorescent, 200W LED
- Standby power <1W
- Detection distance Max. 12 m in diameter, Detection range 10/25/50/75/100% adjustable
- Detection angle 360°, Duration Time 10sec/10min, with manual over-ride function
- Lux threshold Disable / 2lux / 5lux / 10lux / 30lux / 50lux 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

Performance

- Non-dimmable
- In Built Sensor - Yes
- Sensor Type - Microwave

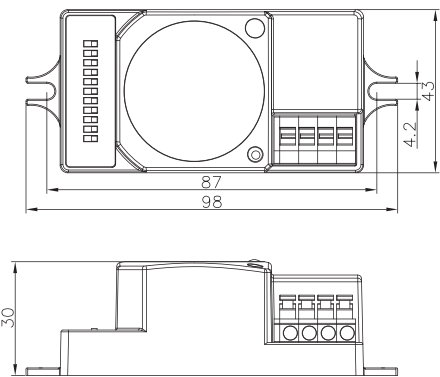


Technical Specifications

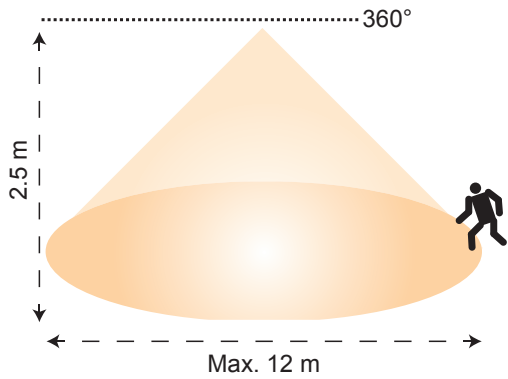
Model No.	Input (V)/(Hz)	Detection Range	IP Rating	Type	Mounting	Colour
SMS800	240/50	12m Max. at 2.5m	IP20	Microwave	Integral	White



Dimensions



Detection range



MW SENSOR RECESSED
SMS839DF

MW Sensor - recessed mount designed for factory installation

Application

Versatile residential and commercial sensor

Design Specifications

- 800W, Max, incandescent lamp (cosφ=1)
- 400W, Max, fluorescent lamp and LED lamp (cosφ=0.5)
- HF system: 5.8GHz CW electric wave, ISM band
- Detection angle: 360°
- Detection range: 50%/100% (radii) (adjustable)
- Time setting: 5sec/1min/3min/10min (adjustable)
- Light-control: 24H/30LUX(adjustable)
- Power consumption: approx 0.5W
- **NOTE:** The product will not function correctly where the sensor is located behind metallic structures or enclosed in a ceiling cavity

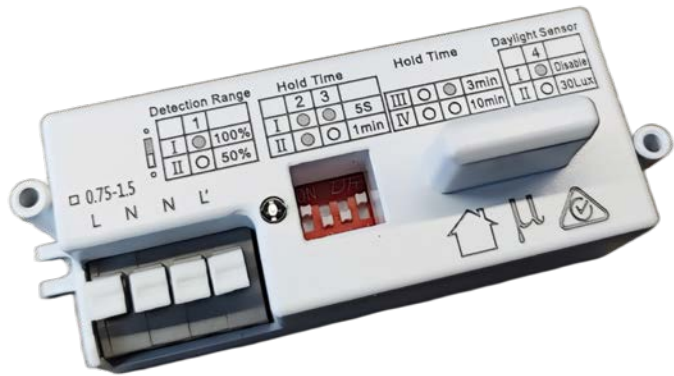
Performance

- Non-dimmable
- In Built Sensor - Yes
- Sensor Type - Microwave

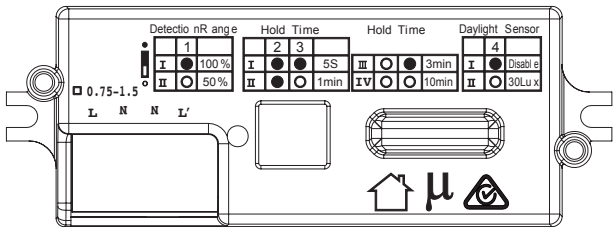


Technical Specifications

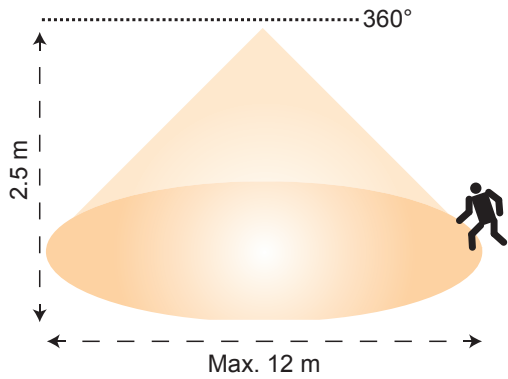
Model No.	Input (V)/(Hz)	Detection Range	IP Rating	Type	Mounting	Colour
SMS839DF	240/50	12m Max. at 2.5m	IP20	Microwave	Integral	White



Dimensions



Detection range





**PIR SENSOR SURFACE MOUNT
SMS808CD/PML**

Multi-function independent microwave with PIR functions



**SMS808CD/PML
surface mount**

**PIR SENSOR SURFACE MOUNT
SMS808CD/PMO**

Multi-function independent with PIR and Occupancy functions



**SMS808CD/PMO
surface mount**

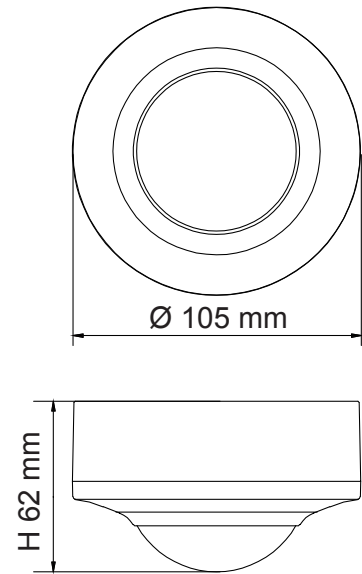
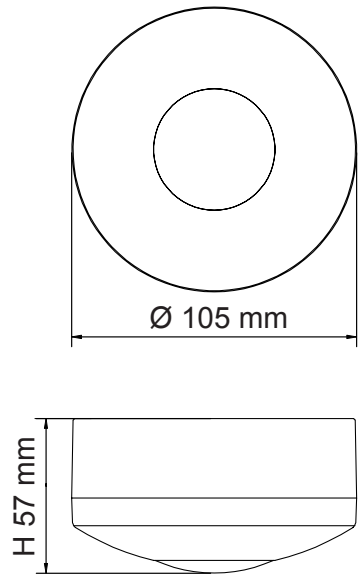
Application

Ideal for office environment where energy conservation is an objective

Design Specifications

- Switched power 1000W LED,
- Standby power <1W
- Detection distance Max. Ø 12 m at 3hm, detection angle 360°
- Sensitivity Setting 100%/75%/50%/25%
- Time Setting: 20min/10min/5min/10s
- Daylight Threshold Setting: 24Hrs/100LUX/30LUX/Night
- SMS808CD/PML - Sensor Type (Microwave, PIR) Setting: PH/P+H/PIR/HF
- SMS808CD/PMO - Sensor Type (Microwave - Occupancy functions, PIR) Setting: PH/P+H/PIR/HF

Dimensions

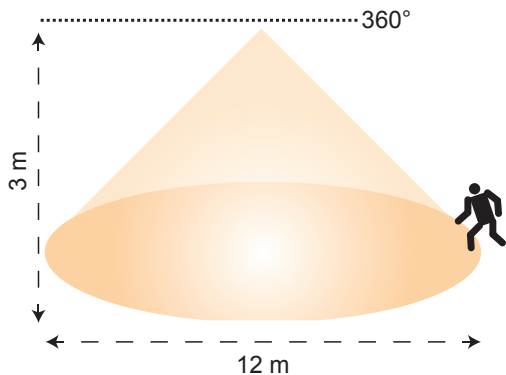


Performance

- Non-dimmable
- In Built Sensor - Yes
- Sensor Type - PIR / MW



Detection range



Technical Specifications

Model No.	Input (V)/(Hz)	Detection Range	IP Rating	Type	Mounting	Colour
SMS808CD/PML	240/50	12m Max. at 3m	IP20	PIR / MW	Surface mount	White
SMS808CD/PMO	240/50	12m Max. at 3m	IP20	PIR / MW	Surface mount	White

For terms of catalogue data use, refer to INDEX



PIR SENSOR RECESSED 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

Performance

- Non-dimmable
- In Built Sensor - Yes
- Sensor Type - PIR



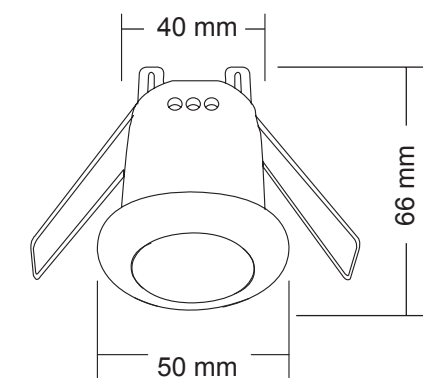
Technical Specifications

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

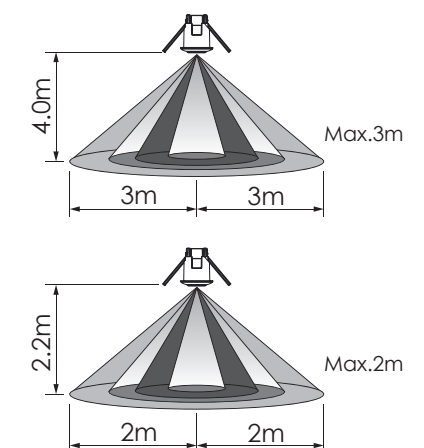
For terms of catalogue data use, refer to INDEX



Dimensions  Ø 40 mm



Detection range





MANTIS MULTI FUNCTION SENSOR - SMS806WF

Multi function PIR Sensor with photocell & override functions - surface mount IP66

Application

Versatile residential and commercial sensor applications

Design Specifications

- 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.

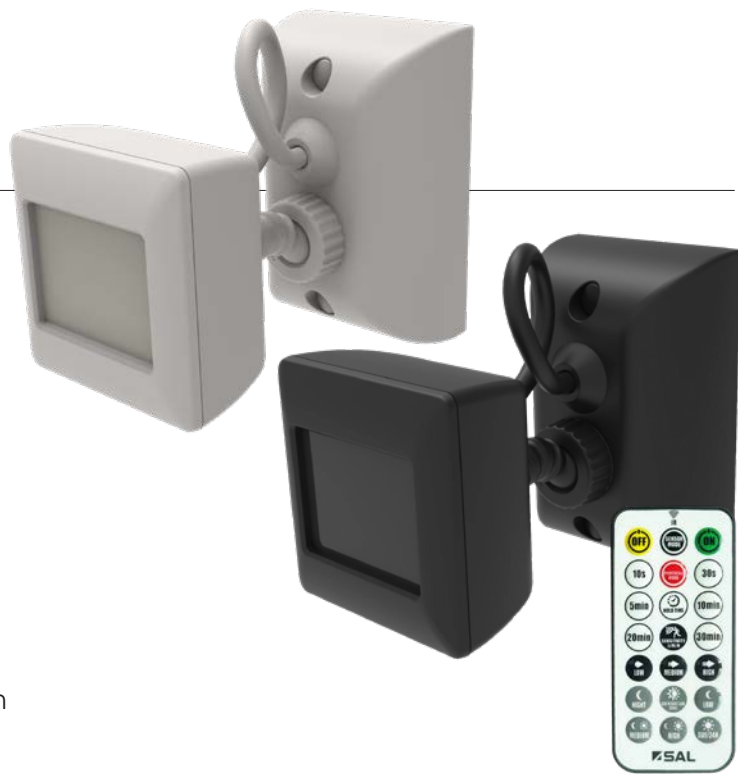
Performance

- In Built Sensor - Yes
- Sensor Type - PIR

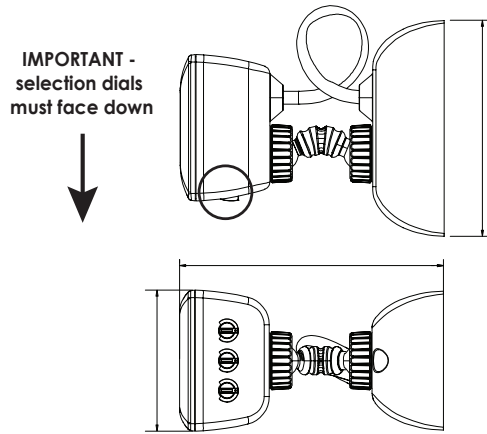


Technical Specifications

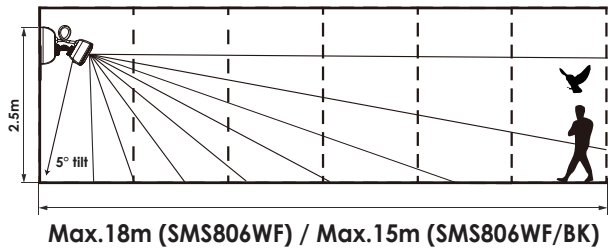
Model No.	Input (V)/(Hz)	Detection Motion Speed	IP Rating	Sensor Type	Mounting	Colour
SMS806WF	240/50	0.6~1.5 (m/s)	IP66	PIR or PE	Ceiling or wall	Grey
SMS806WF/BK	240/50	0.6~1.5 (m/s)	IP66	PIR or PE	Ceiling or wall	Black



Dimensions



Detection range

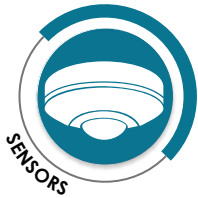


MANTIS SMS806WF MULTIFUNCTION CONTROL SENSOR



Selectable
dusk to dawn or
motion sensor
control





PIR SENSOR RECESSED 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

Performance

- Non-dimmable
- In Built Sensor - Yes
- Sensor Type - PIR

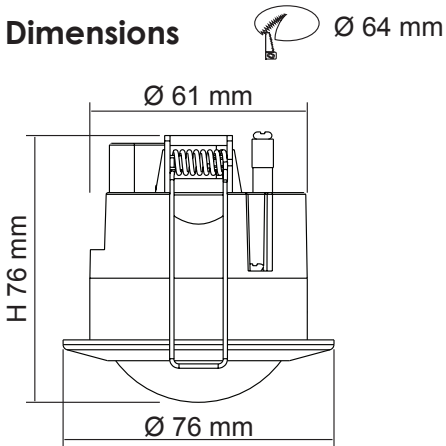


Technical Specifications

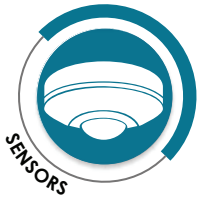
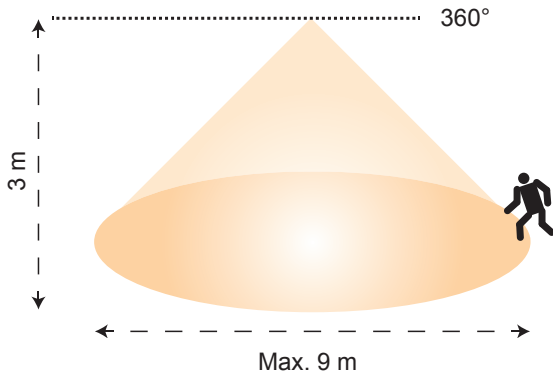
Model No.	Input (V)/(Hz)	Detection Range	IP Rating	Type	Mounting	Colour
SMS804CR	240/50	9m Max. at 3m	IP20	Infrared	Recessed	White



Dimensions



Detection range



PIR SENSOR SURFACE / RECESSED MOUNT SMS803CD

Infrared sensors - surface / recessed occupancy

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

Performance

- Non-dimmable
- In Built Sensor - Yes
- Sensor Type - PIR



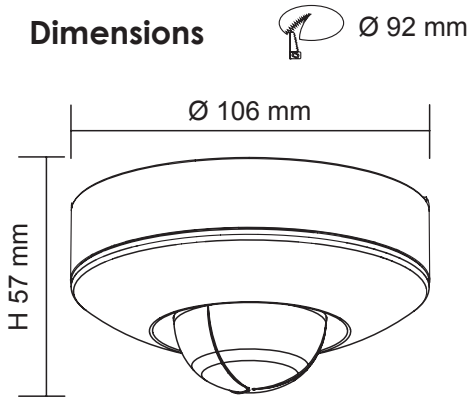
Technical Specifications

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

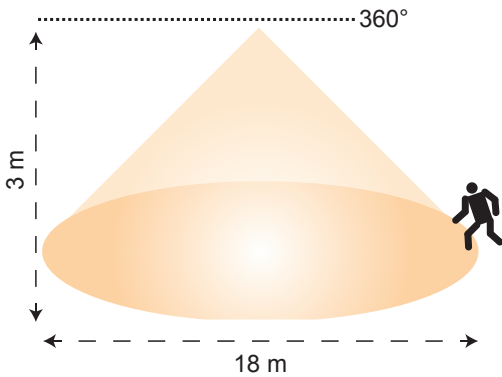
For terms of catalogue data use, refer to INDEX



Dimensions



Detection range





PIR SENSOR SURFACE MOUNT
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

Performance

- Non-dimmable
- In Built Sensor - Yes
- Sensor Type - PIR

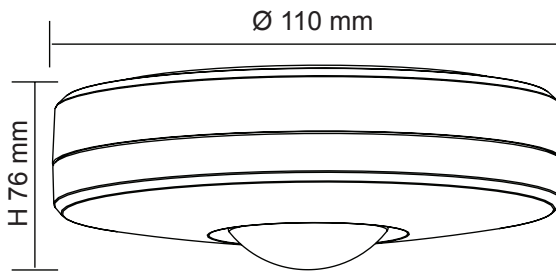


Technical Specifications

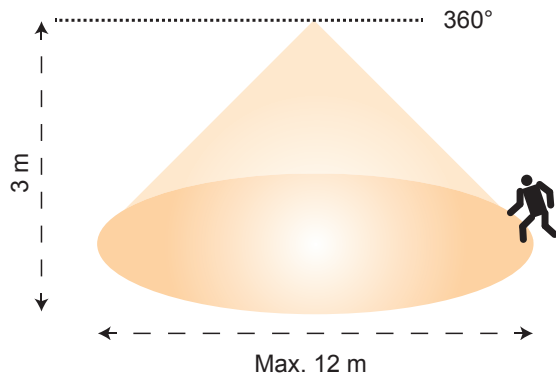
Model No.	Input (V)/(Hz)	Detection Range	IP Rating	Type	Mounting	Colour
SMS805CS	240/50	12m Max. at 3m	IP20	Infrared	Surface mount	White



Dimensions



Detection range



SMS803CD
surface mount

DID YOU KNOW?

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.

SMARTER LIGHTING CHOICES



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