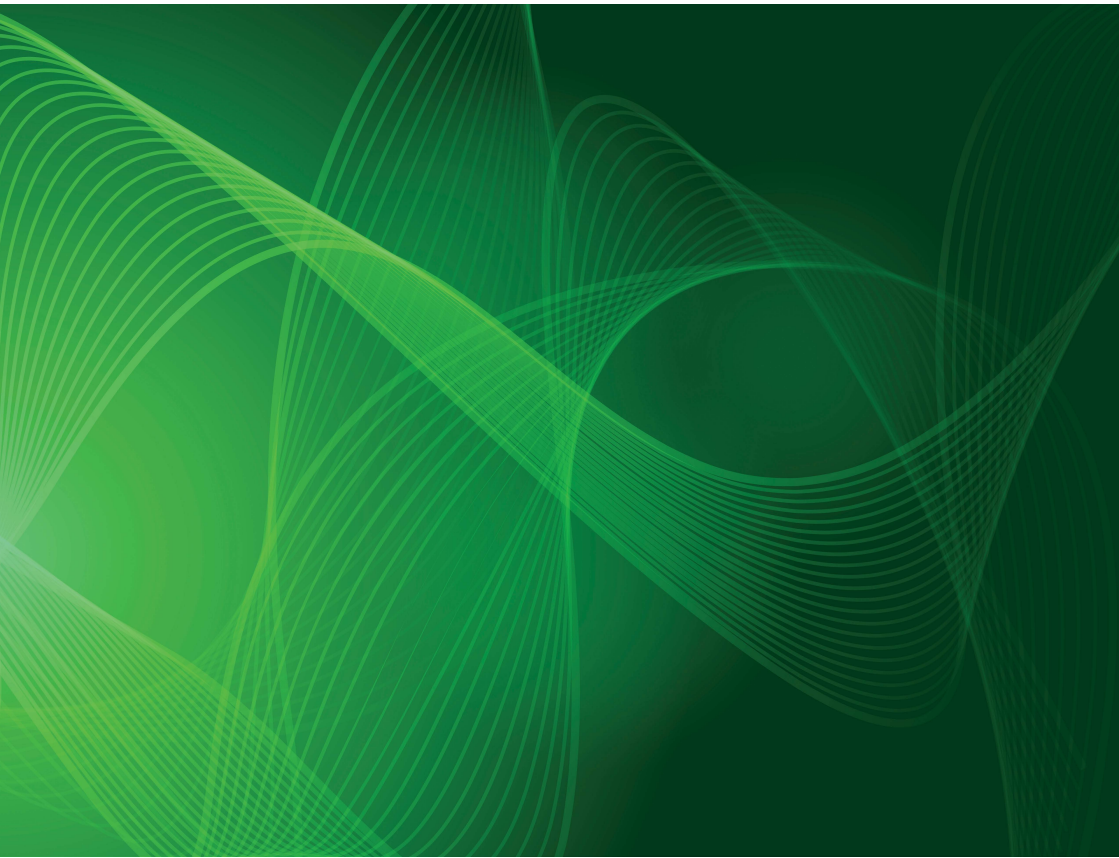
SAL

SINCE 1998

SINCE 1998



SENSORS

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

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.

Need more information on AS/NZS 60598 safety and compliance? Check out the SAL web FAQ's or speak to your local SAL team member.

SENSOR SMS803CD

Infrared sensors - surface / recessed occupancy

SMS803CD
surface mount

SMS803CD
recessed

Application

Recessed or surface mount infrared interior sensor

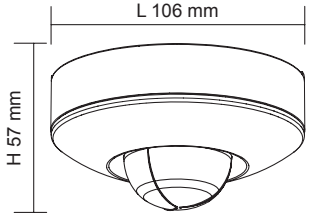
Design Specifications

- Switched power 2000W incandescent, 600W Fluorescent, 300W LED
- Standby power <1W
- Detection distance Max. 18 m in diameter
- Detection angle 360°,
  Duration Time / 10sec / 40min adjustable
- Dawn to dusk adjustable, mounting height Max. 3m

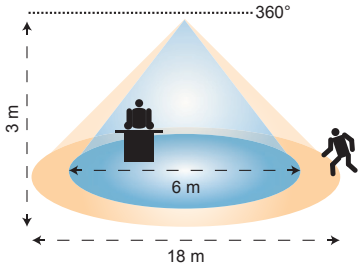
Manual override mode

- 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

For terms and conditions of catalogue data use, refer to INDEX

SENSOR SMS804CR

Infrared sensor - recessed

Application

Versatile IP20 recessed sensor designed for residential and commercial applications

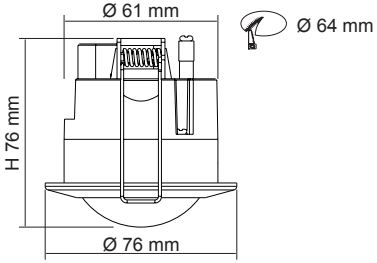
Design Specifications

- Switched power 2000W incandescent, 500W Fluorescent, 300W LED
- Standby power <1W
- Detection distance Max. 9 m in diameter
- Detection angle 360°,
  Duration Time / 10sec / 4min adjustable
- Dawn to dusk adjustable,
  maximum height max.4.5m

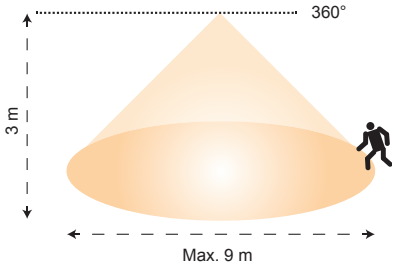
Manual override mode

- 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 3m	IP20	Infrared	Recessed	White

For terms and conditions of catalogue data use, refer to INDEX

SENSOR SMS805CS

Infrared sensor - surface mount

Application

IP20 surface mount sensor designed for residential and commercial spaces

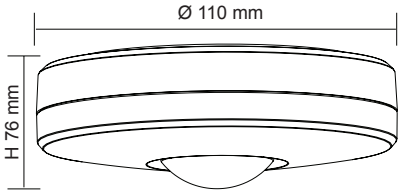
Design Specifications

- Switched power 1600W incandescent, 500W fluorescent, 200W LED, colour white
- Standby power <1W
- Detection distance Max. 12 m in diameter
- Detection angle 360° , Duration Time / 10sec / 4min adjustable
- Dawn to dusk adjustable, mounting height max. 3m

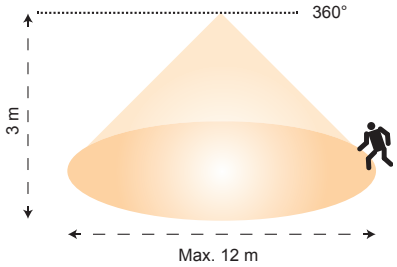
Manual override mode

- 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 3m	IP20	Infrared	Ceiling mount	White

For terms and conditions of catalogue data use, refer to INDEX

SENSOR SMS800

Microwave motion sensor IP20

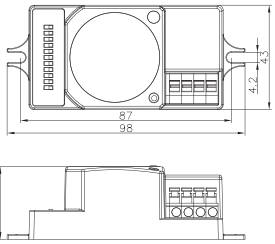
Application

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

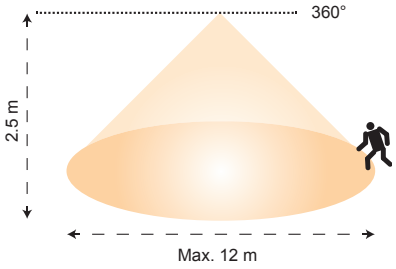
Design Specifications

- 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, adjustable
- Lux threshold Disable / 2lux / 5lux / 10lux / 30lux / 50lux adjustable

Dimensions



Detection range



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

For terms and conditions of catalogue data use, refer to INDEX

INNOVATIVE HIGHBAY MOVEMENT SENSORS

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

WE HAVE THE SOLUTION!

SENSOR SMS731

Microwave motion sensors IP65

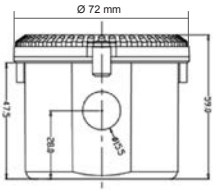
Application

Versatile IP65 residential and commercial sensor

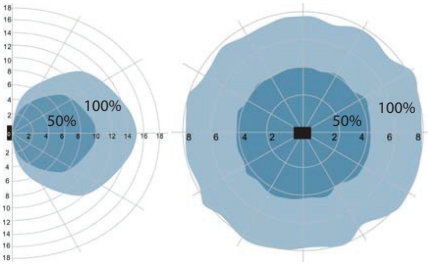
Design Specifications

- Input voltage: 120~277Vac, 50/60Hz
- Rated load: 800W
- Detection area: 8m Max. (radius)adjustable
- Hold time: 5s/30s/1min/3min/5min/10min/20min/30min
- Daylight sensor: 5lux/15lux/30lux/50lux/100lux/150lux/Disable
- Stand-by period: 0s/10s/1min/3min/5min/10min/30min/+∞
- Stand-by dimming level: 10%/20%/30%/50%
- Sensor principle: Microwave motion detector
- Microwave frequency: 5.8GHz ± 75MHz,
- Transmitting power: <0.5mW
- Mounting height: 3~15m
- Detection angle: 150° (wall installation), 360° (ceiling installation)
- Motion detection: 0.5~3m/s

Dimensions



Detection range



Performance

Sensor Mount - Remote
Sensor Type - Microwave

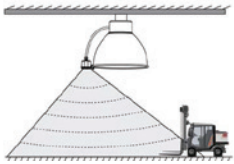
Technical Specifications

Model No.	Input (V)/(Hz)	Max. Load (W)	Detection Range	IP Rating	Type	Mounting	Colour
SMS731LC	240/50	800	Max. 16m	IP65	Microwave	Clip Mount	Black
SMS731CS	240/50	800	Max. 16m	IP65	Microwave	Ceiling Mount	Black
SMS731WS	240/50	800	Max. 16m	IP65	Microwave	Wall Mount	Black
SMS731LP	240/50	800	Max. 16m	IP65	Microwave	External	Black

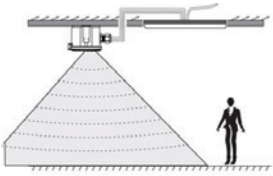
For terms and conditions of catalogue data use, refer to INDEX

Installation Options

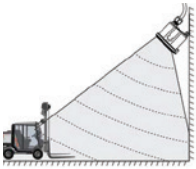
SMS731LC



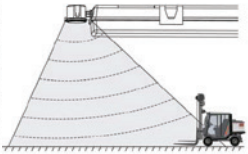
SMS731CS



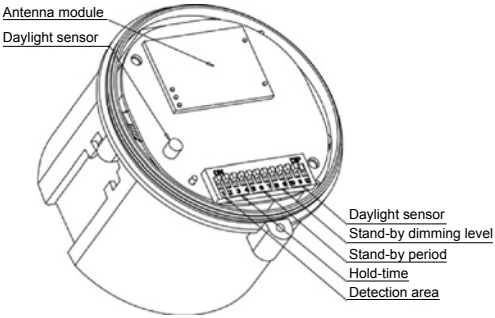
SMS731WS



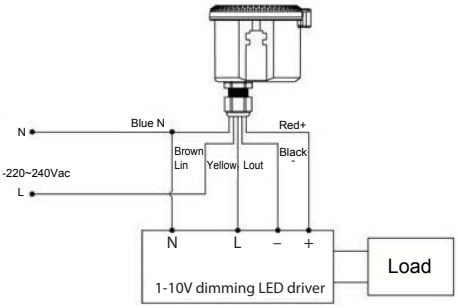
SMS731LP



Function Settings



Wiring Diagram



DAYLIGHT SENSOR

		6	7	8	9	
ON	I	ON	ON	ON	ON	5Lux
	II	—	ON	ON	ON	15Lux
	III	ON	—	ON	ON	30Lux
	IV	—	—	ON	ON	50Lux
	V	ON	ON	—	ON	100Lux
	VI	ON	ON	ON	—	150Lux
	VII	—	—	—	—	Disable

HOLD TIME

		2	3	4	
ON	I	ON	ON	ON	5S
	II	—	ON	ON	30S
	III	ON	—	ON	1min
	IV	—	—	ON	3min
	V	ON	ON	—	20min
	VI	—	—	—	30min

STAND-BY PERIOD

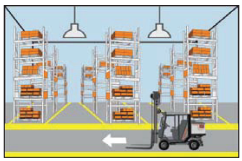
		1	2	3	
ON	I	ON	ON	ON	0S
	II	—	ON	ON	1min
	III	ON	—	ON	3min
	IV	—	—	ON	10min
	V	ON	ON	—	30min
	VI	—	—	—	+ ∞

STAND-BY DIMMING LEVEL

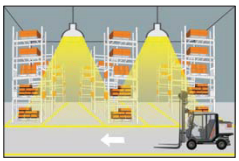
		4	5	
ON	I	ON	ON	10%
	II	ON	—	20%
	III	—	ON	30%
	IV	—	—	50%

DETECTION AREA

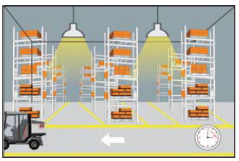
		1	
ON	I	ON	100%
	II	ON	50%



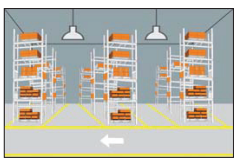
Ambient lux > Set daylight lux
Light keeps off



Motion activated
Light turns on to100%



Stand-by (no motion)
Light dim to standby level



After stand-by (no motion)
Light: switched off

SENSOR SMS733

Microwave motion sensor IP20
with step dimming

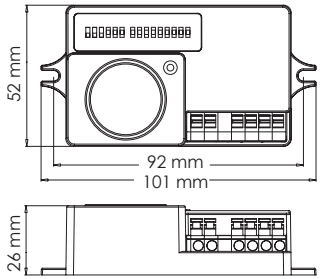
Application

Versatile residential and commercial sensor.
SAL factory fitted sensor option for approved products only, not for individual sale

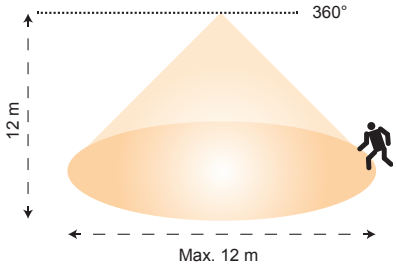
Design Specifications

- Operating voltage: 220~240Vac, 50/60Hz
- Rated load: 800W
- HF system: 5.8GHz ± 75MHz, ISM wave band
- Transmitting power: <0.5mW
- Power consumption: ≤1.0W (standby)
- Detection zone: Max.(D x H): 12m x 12m
- Detection sensitivity: 10%/25%/50%/75%/100%
- Hold time: 5s/30s/90s/3min/20mimn/30min
- Daylight sensor: 5lux/10lux/30lux/50lux/Disable
- Stand-by period: 5s/5min/10min/30min/1h/Disable
- Stand-by dimming level: 10%/20%/30%/40%/50%
- Mounting height: Max.12m
- Motion detection: 0.5~3m/s
- Detection angle: 150° (wall installation),
  360° (ceiling installation)

Dimensions



Detection range



IP20 ta25 SENSOR

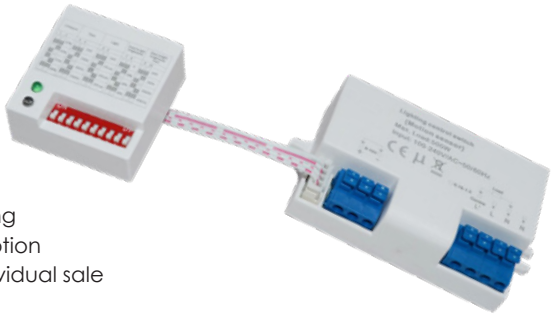
Technical Specifications

Model No.	Input (V)/(Hz)	Max. Load (W)	Detection Range	IP Rating	Type	Mounting	Colour
SMS733	240/50	800	12m Max. at 12m	IP20	Microwave	Integral	White

For terms and conditions of catalogue data use, refer to INDEX

SENSOR SMS735

Microwave motion sensor IP20 with detachable antenna step dimming



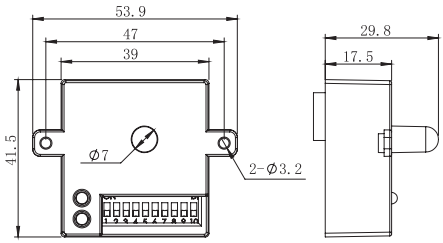
Application

Creative motion sensor for interior lighting applications SAL factory fitted sensor option for approved products only, not for individual sale

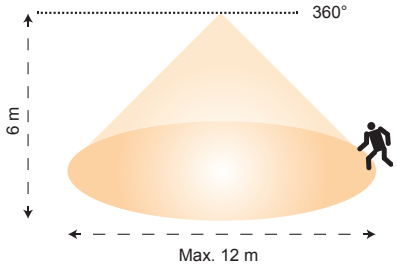
Design Specifications

- Operating voltage: 100~240Vac
- Out current: 0~10Vdc
- Switched power: Max.600W
- Standby power: <0.9W
- Detection range: 25%/50%/75%/100%
- Daylight threshold: 10~50lux, or disable
- Hold time: 10s/10min/20min/30min
- Standby period: 1min/30min/60min/24h
- Standby dimming level: 10%/20%/30%
- Microwave frequency: 5.8GHz ± 75MHz
- Microwave power: <0.2mW
- Detection range: Max.12m
- Detection angle: 360°
- Mounting height: Max.6m

Dimensions



Detection range



IP20 ta25 SENSOR

Technical Specifications

Model No.	Input (V)/(Hz)	Max. Load (W)	Detection Range	IP Rating	Type	Mounting	Colour
SMS735	240/50	600	12m Max. at 6m	IP20	Microwave	Integral	White

SENSOR SMS761

Daylight harvesting sensor IP20

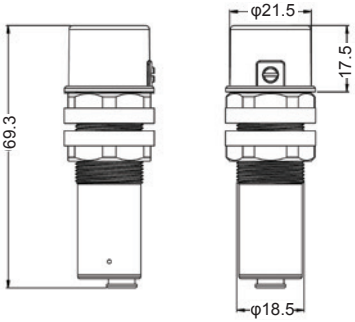
Application

Innovative recessed daylight harvesting sensor

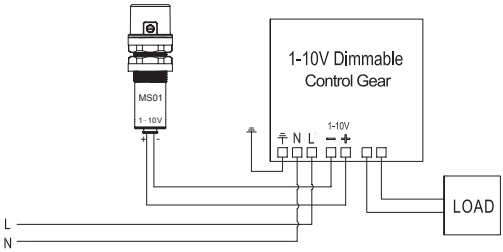
Design Specifications

- Operating voltage: 1-10Vdc
- Maximum load 300 watts current sink, 50mA (Maximum rating)
- Dimming range: 1%~100%
- Colour coding of cable: Red+, Black-
- Cable length: 80cm
- Detection angle: 90°

Dimensions



Wiring Diagram



Technical Specifications

Model No.	Output (V DC)	Detection Angle	IP Rating	Mounting	Colour
SMS761	1-10	360°	IP20	Recessed	White

For terms and conditions of catalogue data use, refer to INDEX

SENSOR SMS830

Microwave motion ON/OFF sensor IP20

Application

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

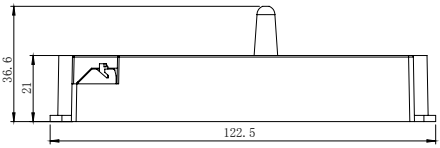
Design Specifications

- Power source: 220-240V/AC
- Power frequency: 50/60Hz
- Transmission power: <0.2m/W
- Rated load: 1000W/5A, Max. incandescent lamp (cosφ=1) 300W/2.5A, Max. fluorescent lamp and LED lamp (cosφ=0.5)
- HF system: 5.8GHz CW electric wave, ISM band
- Detection angle: 360°

Manual override mode

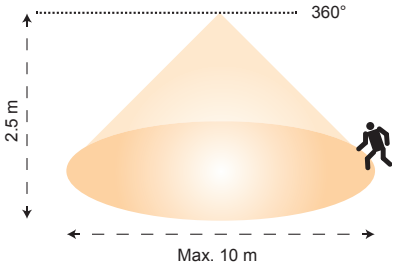
- When the lamp(s) is switched on, turn the lamp(s) off/on twice within 3 seconds, the sensor will go to an 8 hour override mode, during which the lamp(s) will stay on. The sensor will then return to normal detection mode.
- During override mode, turn the lamp(s) on/off twice within 3 seconds or turn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

Dimensions



Width 29 mm

Detection range



Technical Specifications

Model No.	Input (V)/(Hz)	Detection Range	IP Rating	Type	Mounting	Colour
SMS830	240/50	10m Max. at 2.5m	IP20	Microwave	Integral	White

SENSOR SMS812

IR Low Voltage 12/24V DC sensor

Application

Versatile sensor for concealed residential and commercial applications

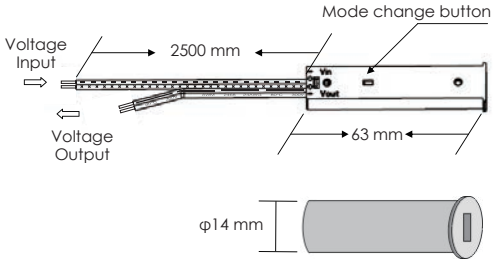
Design Specifications

- Rated supply 12 or 24V DC, (supply driver sold separately)
- Output power 12V max 24 watt, 24V max 48 watt
- The sensor is designed with a dimming mode and non-dimming modes
- Two detecting modes and a power OFF memory function
- Designed for both flush or recessed installation applications
- Low profile face design of φ14 mm x 63 mm in length

Performance

In Built Sensor - Yes
Sensor Type - IR

Dimensions



Technical Specifications

Model No.	Input (V DC)	IP Rating	Type	Mounting	Colour
SMS812	12/24	IP20	Infrared	Recessed	White

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SENSOR SMS815

IR Low Voltage 12/24V DC sensor

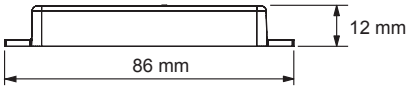
Application

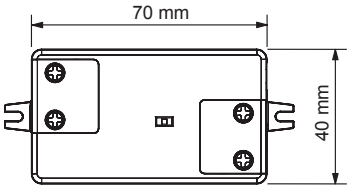
Versatile sensor for concealed residential and commercial applications

Design Specifications

- Rated supply 12 or 24V DC, (supply driver sold separately)
- Output power at 12V max 30 watt, at 24V max 60 watt
- The sensor is designed with two versatile detecting modes and a power OFF memory function. Detection range <50mm.
- IR switch controller designed for Class III insulated lighting products
- Designed with a low profile face design of φ18 mm x 11 mm in length

Dimensions





Performance

In Built Sensor - Yes
Sensor Type - IR

Technical Specifications

Model No.	Input (V DC)	IP Rating	Type	Mounting	Colour
SMS815	12/24	IP20	Infrared	Wall mount	Black

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