EVOTEC | SENSORS

EVOTEC
TECHNOLOGY EVOLVING



Intelligent Detection. Smarter Control.

Evotec sensor solutions are engineered to deliver intelligent detection and precise environmental response across residential, commercial, and mixed-use developments. Designed to enhance automation performance, energy efficiency, and occupant comfort, our sensor portfolio integrates seamlessly into modern lighting and smart building systems.

From motion detection and daylight sensing to presence-based control strategies, Evotec sensors provide accurate and reliable performance under varying environmental conditions. Adjustable sensitivity, intelligent control logic, and robust build quality ensure long-term operational stability in demanding applications.

Optimized for integration with lighting control systems, automation platforms, and energy management solutions, Evotec sensors enable smarter environments — improving safety, reducing energy consumption, and enhancing overall building efficiency.

Built to meet international compliance standards, Evotec sensor technologies combine engineering precision with practical installation flexibility.

EVOTEC — Sensing the Future of Smart Spaces.

EVOTEC | PASSIVE INFRARED SENSORS(SP-S08A)



SP-S08(INFRARED MOTION SENSOR)

The SP-S08A Infrared Motion Sensor is designed with a high-sensitivity passive infrared detector and an advanced integrated circuit. It combines automation, convenience, safety, and energy efficiency in a compact and reliable device.

The sensor detects infrared radiation emitted by the human body and activates the connected load immediately when movement is detected within its coverage area. Automatic day and night recognition ensures dependable operation under varying ambient light conditions. The sensor is easy to install and suitable for a wide range of applications.

Key Features

- Passive Infrared (PIR) motion detection technology
- 360° wide-area ceiling detection
- Automatic day and night recognition
- Adjustable time delay and ambient light sensitivity
- Continuous trigger function (auto time reset on repeated motion)
- High load switching capacity
- Low standby power consumption
- Easy ceiling installation
- Reliable operation in a wide temperature range

Functional Description

The SP-S08A detects movement by sensing variations in infrared radiation caused by human presence within the detection area. Once motion is detected, the sensor activates the connected load for the preset time delay.

Automatic Day / Night Operation

- The built-in light sensor allows automatic control based on ambient light level:
- SUN position: Sensor operates both during daytime and nighttime.
- MOON position: Sensor operates only when ambient light is below 3 lux.

Continuous Time Delay Function

If motion is detected again during the active delay period, the sensor resets the timer, ensuring continuous operation while movement persists.

Category	Parameter	Specification
Electrical	Power Supply	220–240 V AC
	Operating Frequency	50 / 60 Hz
	Power Consumption	Approx. 0.5 W
Detection	Detection Technology	Passive Infrared (PIR)
	Detection Angle	360°
	Detection Distance	Max. 6 m (at ambient temperature < 24°C)
	Detectable Motion Speed	0.6 – 1.5 m/s
Load Capacity	Resistive Load	Max. 2000 W
	Inductive Load	Max. 1000 W
Control Settings	Time Delay (Min.)	10 seconds ±3 seconds
	Time Delay (Max.)	7 minutes ±2 minutes
	Ambient Light Sensitivity	Adjustable from <3 to 2000 lux
Environmental	Operating Temperature	-20°C to +40°C
	Operating Humidity	<93% RH (non-condensing)
Installation	Mounting Type	Ceiling-mounted
	Recommended Installation Height	2.2 – 4.0 m
	Typical Effective Height	2.0 – 2.4 m

Installation Guidelines

As the sensor responds to temperature variation, the following installation conditions should be avoided:

- Do not aim the sensor at highly reflective surfaces such as mirrors.
- Do not install near heat sources such as heaters, air-conditioning outlets, or luminaires.
- Do not aim the sensor toward objects that may move due to airflow, such as curtains or plants.

Electrical Connection & Safety Instructions

Warning: Risk of electric shock.

Installation must be carried out by a qualified electrician only.

Before installation:

- Disconnect the power supply.
- Cover or shield adjacent live components.
- Ensure the circuit cannot be energized unintentionally.
- Verify that the power supply is fully isolated.

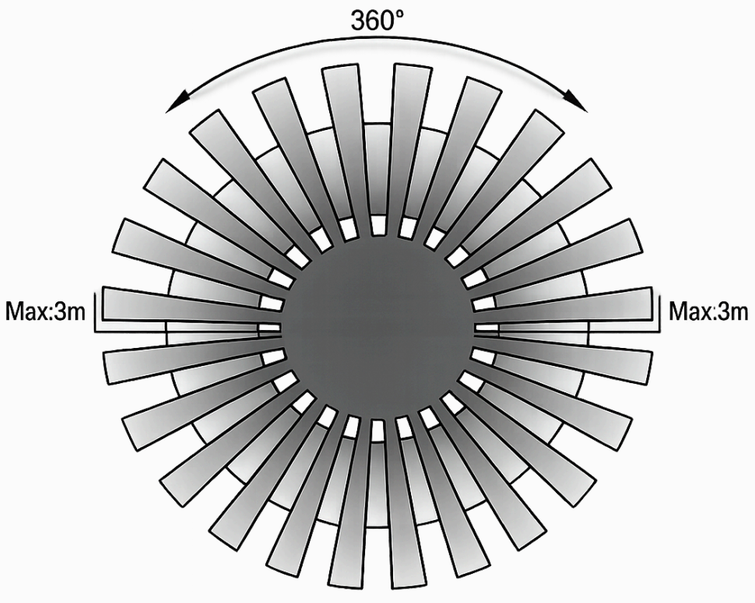
Installation Procedure

- Remove the upper cover by rotating it anti-clockwise.
- Connect the power supply and load according to the wiring diagram.
- Secure the base to the mounting surface using suitable screws.
- Reinstall the upper cover.
- Restore power and perform functional testing

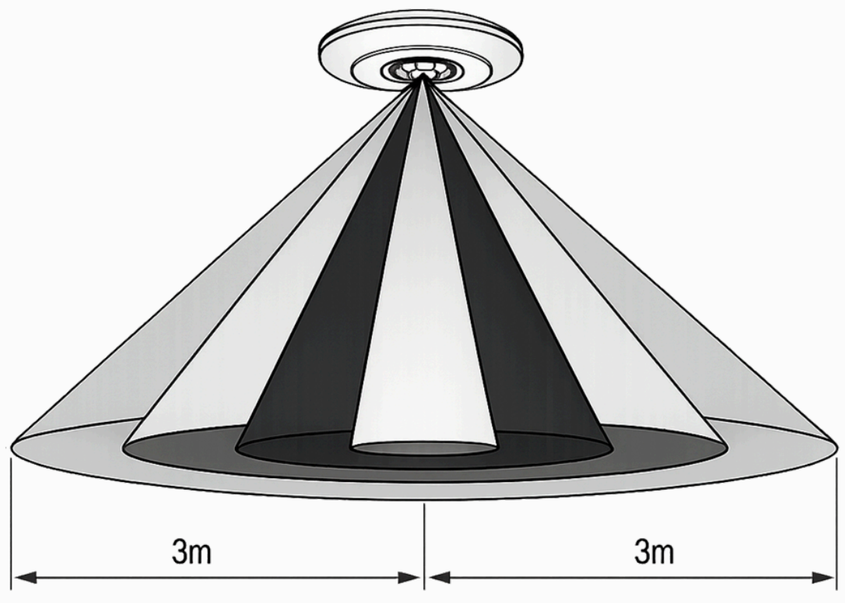
EVOTEC | PASSIVE INFRARED SENSORS(SP-S08A)

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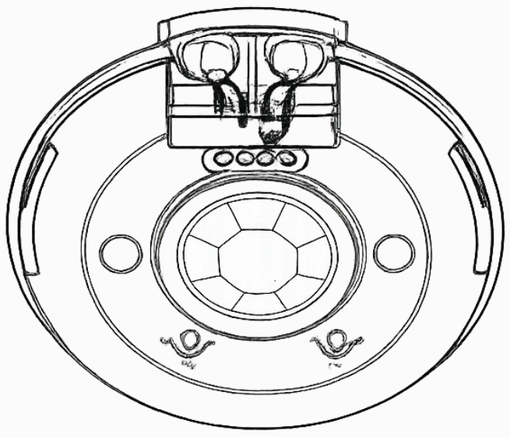
Sensor Detection diagram



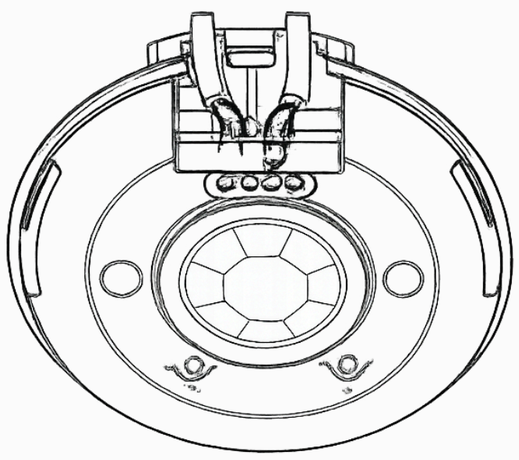
Detection Distance: Max.6m



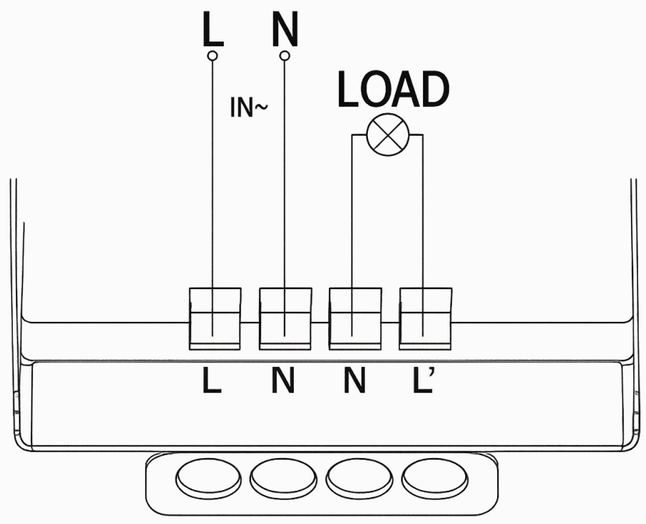
Wiring diagram



The wires come in and out from the bottom



The wires come in and out from the side



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INFO@EVOTECUK.COM

RoHS compliant
UK CA
CE

Testing Procedure

1. Set the TIME control to the minimum position (10 seconds).
2. Set the LUX control to the maximum position (SUN).
3. Switch on the power supply. The sensor will enter a warm-up period of approximately 30 seconds.
4. After warm-up, motion within the detection area will switch the connected load ON.
5. When no further motion is detected, the load will switch OFF after approximately 10 seconds.
6. Turn the LUX control to the minimum position (MOON):
    - If ambient light exceeds 3 lux, the sensor will not operate.
    - If ambient light is below 3 lux, the sensor will operate normally.

Important Notes:

- When testing during daylight, always set the LUX control to the SUN position.
- If the connected load exceeds 60 W, maintain a minimum distance of 60 cm between the lamp and the sensor.

Troubleshooting

Load does not operate

- Verify correct wiring of the power supply and load.
- Check that the connected load is functional.
- Confirm that ambient light settings correspond to the environment.

Poor sensitivity

- Ensure no obstructions block the detection area.
- Check for excessive ambient temperature.
- Confirm that movement occurs within the detection zone.
- Verify correct installation height.
- Ensure correct movement direction relative to the sensor.

Load does not switch off automatically

- Check for continuous movement within the detection area.
- Ensure the time delay is not set to maximum.
- Verify that the connected load rating complies with specifications.

EVOTEC | PASSIVE INFRARED SENSORS(E-SP-P20)



E-SP-P20
Real Infrared Presence & Motion Sensor

The E-SP-P20 Real Infrared Presence Sensor is a high-performance ceiling-mounted detector designed for applications requiring reliable presence detection as well as long-range motion detection.
The sensor integrates a high-sensitivity infrared detection element with an advanced control circuit, enabling it to detect both micro-movements (presence) and macro-movements (motion). It uses infrared energy emitted by the human body as the control signal source and activates the connected load immediately when movement is detected within the detection field.

Automatic day/night recognition, adjustable sensitivity, and extended time-delay functionality make the E-SP-P20 suitable for intelligent lighting control and energy-saving applications in commercial and public environments.

Key Features

- Real infrared presence sensing for micro-movement detection
- Long-range infrared motion detection
- Dual-mode detection: presence and motion
- 360° ceiling coverage
- Adjustable sensitivity (SENS) for different applications
- Automatic day and night recognition
- Continuous time-delay restart on repeated detection
- Extended adjustable time delay up to 30 minutes
- High load switching capacity
- Wide input voltage range

Functional Description

Presence and Motion Detection

The E-SP-P20 supports two detection modes within a single device:
Presence detection for small, slow, or stationary human movements within a range of up to 6 m.

EVOTEC | PASSIVE INFRARED SENSORS(E-SP-P20)

Motion detection for larger or faster movements with a detection range of up to 20 m.
Detection ranges are adjustable via the sensitivity control to suit room size and application requirements.

Automatic Day / Night Operation

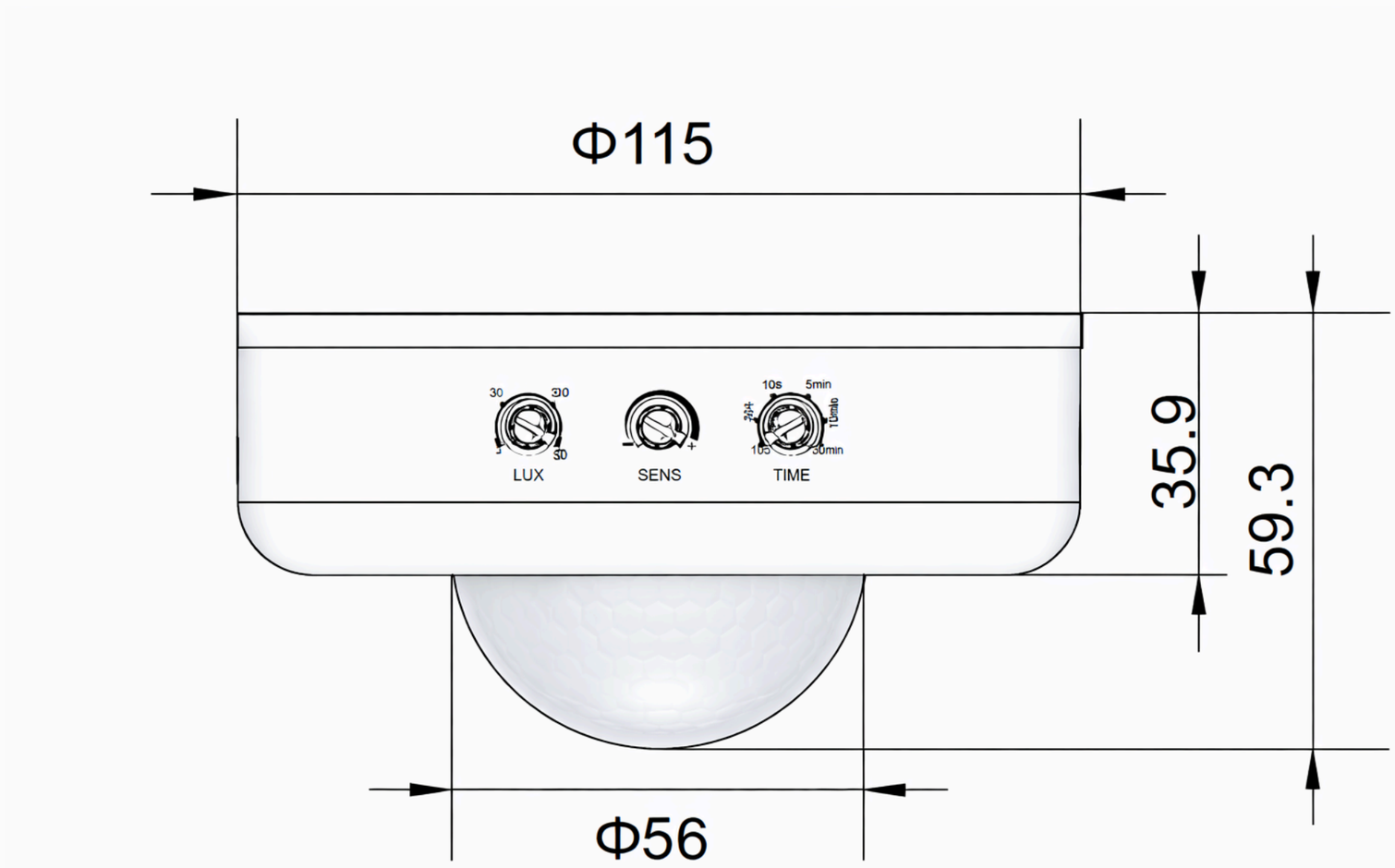
The sensor automatically determines operating conditions based on ambient light level:
SUN position (maximum): Sensor operates during both day and night.
MOON / 3 LUX position (minimum): Sensor operates only when ambient light is below 3 lux.

Continuous Time Delay

When motion or presence is detected again during an active delay period, the internal timer is restarted, ensuring continuous operation while movement persists within the detection field.

Installation Guidelines

- To ensure stable and accurate detection, observe the following recommendations:
- Do not aim the sensor toward highly reflective surfaces such as mirrors.
- Avoid installation near heat sources such as heating vents, air-conditioning outlets, or luminaires.
- Avoid pointing the sensor toward objects that may move due to airflow, such as curtains or plants.



Technical Specifications

Category	Parameter	Specification
Electrical	Power Supply	110–240 V AC
	Power Frequency	50 / 60 Hz
Detection	Detection Technology	Real Infrared Presence & Motion
	Detection Angle	360°
	Presence Detection Distance	2 – 6 m (diameter, adjustable)
	Motion Detection Distance	10 – 20 m (diameter, adjustable)
	Detectable Motion Speed	0.6 – 1.5 m/s
Control Settings	Sensitivity Adjustment	Adjustable (Low to High)
	Time Delay (Minimum)	10 seconds ±3 seconds
	Time Delay (Maximum)	30 minutes ±2 minutes
	Ambient Light Sensitivity	<3 – 2000 lux (adjustable)
Load Capacity	Rated Load (220–240 V AC)	Max. 2000 W / 1000 W
	Rated Load (110–130 V AC)	Max. 1000 W / 500 W
Environmental	Operating Temperature	-20°C to +40°C
	Operating Humidity	<93% RH (non-condensing)
Installation	Mounting Type	Ceiling-mounted
	Installation Height	2.2 – 4.0 m

Electrical Connection & Safety

WARNING – Risk of electric shock
Installation must be carried out by a qualified electrician in accordance with local regulations.

Before installation:

- Disconnect the power supply.
- Cover or shield adjacent live components.
- Ensure the device cannot be energized accidentally.
- Confirm the power supply is fully isolated.

Installation Procedure

- Switch off the power supply.
- Remove the sensor cover.
- Connect the power supply and load according to the wiring diagram.
- Secure the sensor to the mounting surface using appropriate fixing screws.
- Reinstall the cover.
- Restore power and proceed with testing.

Commissioning & Testing

1. Set the LUX control to the maximum (SUN).
2. Set the SENS control to maximum (+).
3. Set the TIME control to minimum (10 seconds).
4. Switch on the power supply.
5. Allow a warm-up period of approximately 30 seconds.
6. Trigger movement within the detection area; the connected load will switch ON.
7. When no further movement is detected, the load will switch OFF after the preset delay.

Important Notes

- During daylight testing, the LUX control must be set to the SUN position.
- If the connected lamp exceeds 60 W, maintain a minimum distance of 60 cm between the lamp and the sensor.

Troubleshooting

Load does not operate

- Verify correct wiring of power supply and load.
- Check that the connected load is functional.
- Confirm ambient light settings match site conditions.

Poor sensitivity

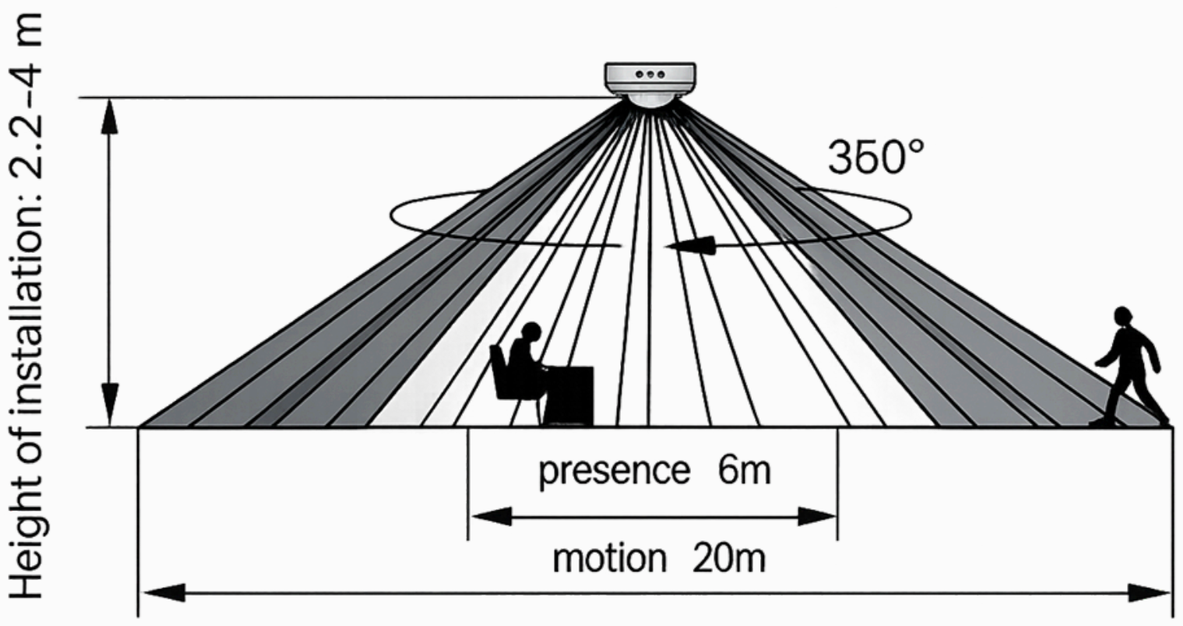
- Ensure no obstructions block the detection field.
- Check for excessive ambient temperature.
- Confirm the signal source is within the detection area.
- Verify correct installation height.
- Ensure correct movement direction relative to the sensor.

Load does not switch off automatically

- Check for continuous movement within the detection field.
- Ensure the time delay is not set to maximum.
- Verify the connected load rating complies with specifications.

Typical Applications

- Offices and meeting rooms
- Corridors and lobbies
- Washrooms and common areas
- Energy-efficient lighting control systems
- Presence-based automation scenarios



EVOTEC | PIR Infrared Motion Sensor(EV-PIR180-12M)



EV-PIR180-12M

The EV-PIR180-12M is a wall-mounted infrared motion sensor designed for automatic lighting control in residential and commercial applications. The device detects human body infrared radiation and switches connected loads automatically. It incorporates adjustable time delay and ambient light (LUX) sensitivity, enabling intelligent energy-saving operation.

Automatic day/night recognition, adjustable sensitivity, and extended time-delay functionality make the E-SP-P20 suitable for intelligent lighting control and energy-saving applications in commercial and public environments.

Key Features

- 180° wide-angle motion detection for broad coverage.
- Up to 12m detection range (at <24°C ambient temperature).
- Adjustable time delay from 10 seconds to 15 minutes with retrigger function.
- Adjustable ambient light sensitivity from 3–2000 LUX.
- Automatic day and night recognition via built-in photocell.
- Supports up to 800W resistive load and 400W LED load.
- Low standby power consumption of approximately 0.5W.
- Operating temperature range from -20°C to +40°C.

EVOTEC | PIR Infrared Motion Sensor(EV-PIR180-12M)

Technical Specifications

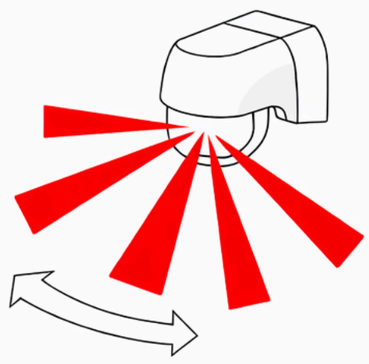
Parameter	Specification
Rated Voltage	220–240V AC
Frequency	50/60Hz
Standby Power Consumption	Approx. 0.5W
Maximum Load (Resistive)	800W
Maximum Load (LED / Energy Saving)	400W
Detection Angle	180°
Maximum Detection Distance	12m (at <24°C)
Detection Speed	0.6 – 1.5 m/s
Installation Height	1.8 – 2.5m
Time Delay	10 seconds ±3 sec to 15 minutes ±2 min
Time Function	Retriggerable timing
Ambient Light Adjustment	<3 – 2000 LUX (adjustable)
Day/Night Function	Automatic recognition
Operating Temperature	-20°C to +40°C
Operating Humidity	<93% RH
Mounting Type	Wall mounted
Wiring Type	3-wire (L, N, L')

Day/Night Detection: Adjustable ambient light setting allows operation in daylight (SUN position) or only in low light conditions (<3 LUX).

Retrigger Time Delay: If motion is detected again before the delay expires, the timer resets to ensure continuous lighting.

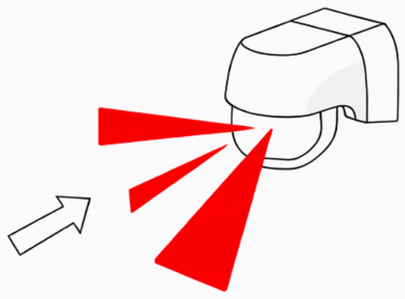
Optimized Sensitivity: Proper installation orientation ensures maximum detection performance.

EVOTEC | PIR Infrared Motion Sensor(EV-PIR180-12M)



Good sensitivity





Poor sensitivity

INSTALLATION INSTRUCTIONS

EV-PIR180-12M

⚠ Warning: Risk of electric shock. Installation must be carried out by a qualified electrician.

1. Safety Precautions

- Disconnect the power supply before installation.
- Ensure the device cannot be switched on during installation.
- Cover or shield any adjacent live components.
- Verify that the power supply is fully disconnected before wiring.

2. Mounting Procedure

- Loosen the screw at the rear of the unit and remove the bottom mounting base.
- Locate the cable entry hole (with gasket) at the underside of the sensor and pass the supply cable through it.
- Connect the wiring according to the wiring diagram (L, N, and switched output L').
- Fix the mounting base securely to the wall using appropriate wall plugs and screws.
- Reattach the sensor body to the mounting base.
- Tighten the retaining screw securely.
- Restore power and proceed with functional testing.

3. Installation Recommendations

- Recommended mounting height: 1.8 – 2.5 meters.
- Avoid installation near heat sources (heaters, AC outlets, lighting fixtures).
- Do not mount facing reflective surfaces (mirrors).
- Avoid areas with moving objects such as curtains or plants.

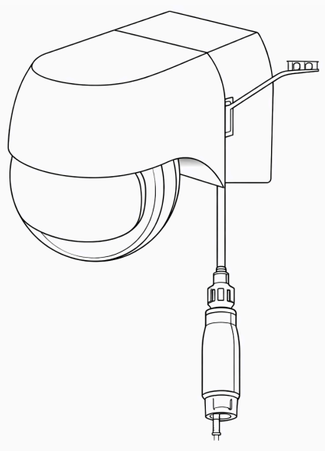


Figure 1

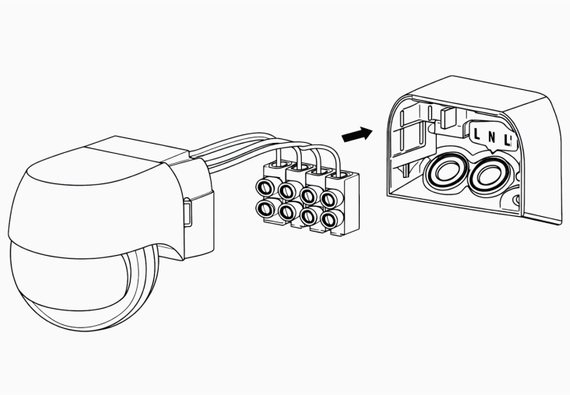


Figure 2

TESTING PROCEDURE

- Turn the TIME knob anti-clockwise to the minimum setting (10 seconds). Turn the LUX knob clockwise to the maximum position (SUN).
- Switch on the power supply. The sensor and connected lamp will remain off initially during a warm-up period of approximately 30 seconds. After warm-up, the sensor becomes operational. When motion is detected, the lamp will turn on. If no further motion is detected, the load will switch off within 10 seconds ±3 seconds.
- Turn the LUX knob anti-clockwise to the minimum setting (3 LUX). If the ambient light level is above 3 LUX, the sensor will not activate the lamp. If the ambient light is below 3 LUX (dark conditions), the sensor will operate normally. Without motion detection, the load will switch off within 10 seconds ±3 seconds.

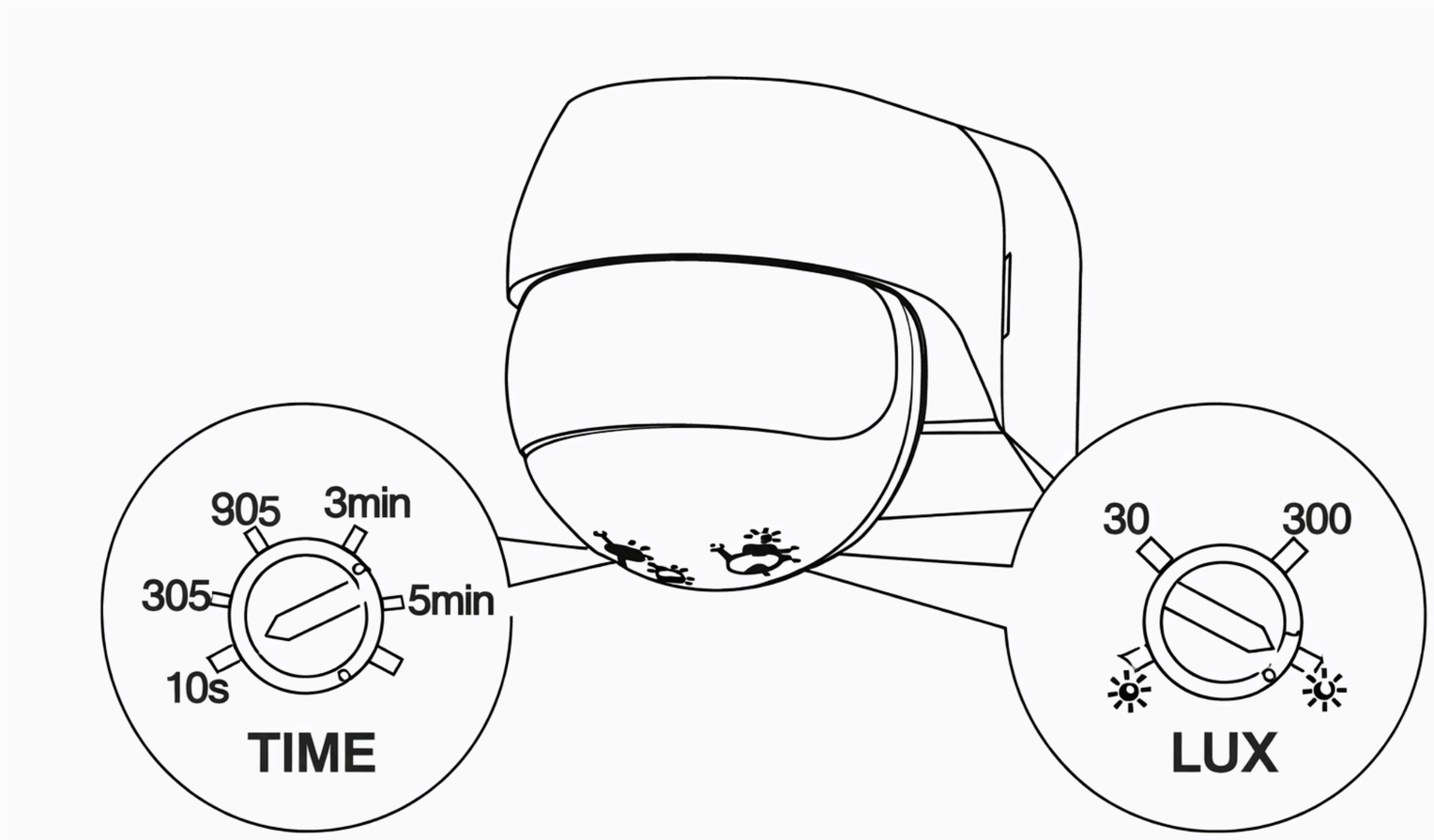


Figure 3

TROUBLESHOOTING

1. Load Does Not Operate
   - Verify that the power supply and load wiring connections are correct.
   - Ensure the connected load is functioning properly.
   - Confirm that the LUX setting corresponds to the current ambient light level.
2. Poor Sensitivity
   - Check for obstructions in front of the sensor that may block detection.
   - Ensure the ambient temperature is not excessively high.
   - Confirm that movement is occurring within the detection area.
   - Verify that the installation height is within the recommended range (1.8–2.5m).
   - Ensure the movement direction is across the detection zone for optimal sensing.
3. Sensor Does Not Switch Off Automatically
   - Check for continuous movement within the detection area.
   - Ensure the time delay is not set to the maximum position.
   - Verify that the power supply matches the specified voltage rating.

EVOTEC | 24 GHz Microwave Presence Sensor



EV-MPS360-24G

The EV-MPS360-24G is a high-sensitivity 24GHz microwave presence sensor designed for accurate occupancy detection in commercial and residential indoor environments.
Utilizing continuous-wave radar (ISM band), the sensor detects human presence — including minor movement and breathing — ensuring lighting remains on while occupants are present and switches off automatically when the area is vacant.
Engineered for energy efficiency, reliability, and seamless integration, the EV-MPS360-6M delivers intelligent automation with precision detection performance.

Key Features

- 24GHz microwave presence detection (ISM band)
- 360° ceiling coverage
- Detection diameter adjustable from 2–6m
- Detects minor movements and breathing
- Adjustable sensitivity (SENS control)
- Adjustable time delay (10 sec – 12 min)
- Adjustable ambient light threshold (3–2000 LUX)
- Continuous retrigger function
- Energy-saving automatic switching

Detection Modes

Detection Modes

- Presence Mode (≤3m range): Detects minor movements and breathing, keeping lights continuously ON while occupied.
- Motion Mode (>3m range): Operates as standard microwave motion sensor detecting movement.

Applications

- Offices
- Meeting rooms
- Corridors
- Commercial interiors
- Educational facilities
- Healthcare environments

FUNCTION

Day & Night Recognition: Operates in both daytime and nighttime when set to the SUN position (maximum). When adjusted to the minimum (3 LUX), the sensor operates only under low ambient light conditions.

Adjustable Sensitivity (SENS): Detection range can be adjusted according to the installation environment. Low sensitivity provides detection up to 2m, while high sensitivity allows detection up to 16m, suitable for larger areas.

Continuous Retrigger Function: If additional motion is detected before the preset delay expires, the timing cycle will restart automatically.

Adjustable Time Delay: Switch-off delay can be set between 10 seconds ±3 seconds and 12 minutes ±1 minute according to application requirements.

CONNECTION

⚠ WARNING Danger of death through electric shock!



- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shied any adjacent live components.
- Ensure device cannot be switched on.
- Adjustable time delay (10 sec – 12.min)
- Adjustable daylight threshold (3–2000 LUX)
- Check power supply is disconnected.

Compliance & Safety

- Low Voltage Directive (LVD) 2014/35/EU
- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU

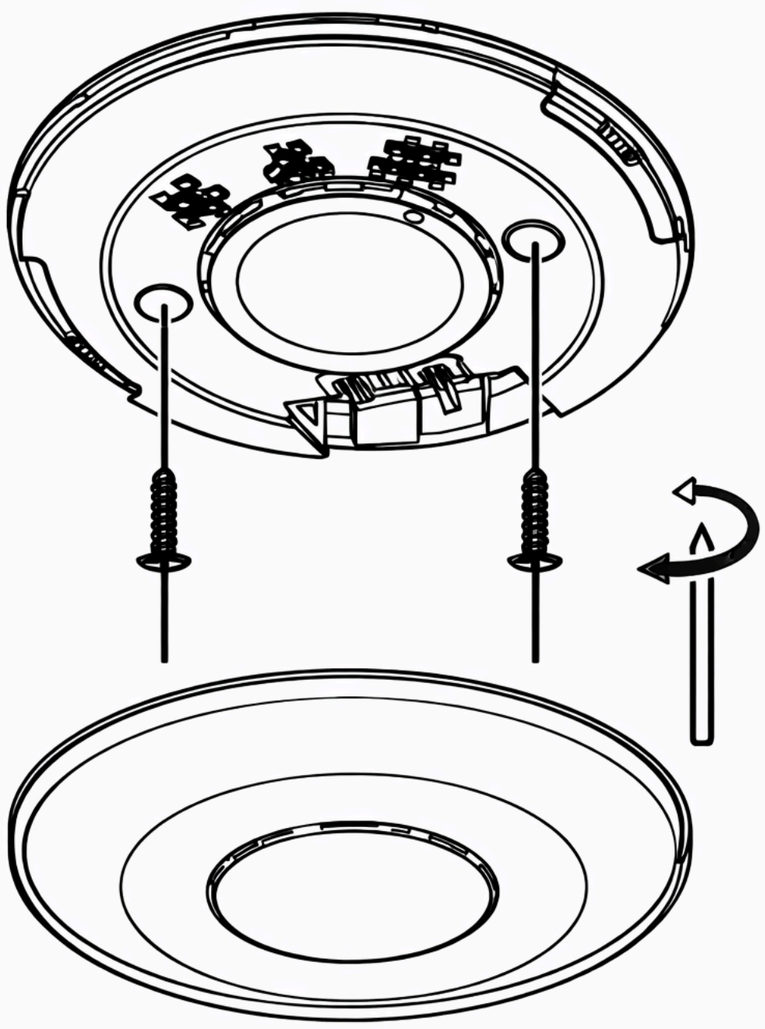
HF transmission power complies with ISM band requirements (<10mW).

Parameter	Specification
Supply Voltage	110–240V AC
Frequency	50/60Hz
HF System	24GHz CW radar, ISM band
Transmission Power	<10mW
Detection Angle	360°
Detection Distance	2–6m diameter (adjustable)
Installation Height	2–4m
Time Delay	10 sec ±3 sec to 12 min ±1 min
Ambient Light Setting	<3–2000 LUX (adjustable)
Rated Load (220–240V)	Max. 2000W
Rated Load (110–130V)	Max. 1000W
Standby Consumption	Ultra-low microwave system

INSTALLATION

(Refer to installation diagram below)

1. Switch off power
2. Rotate the upper cover anti-clockwise to remove it, as shown in the diagram.
3. Connect the power supply and load according to the connection wiring diagram.
4. Secure the base to the selected mounting position using appropriate screws and wall plugs.
5. Reinstall the upper cover onto the sensor and lock it in place.
6. Restore the power supply and perform functional testing.



CONNECTION – WIRING DIAGRAM*(Refer to the image below)*

Terminal Identification

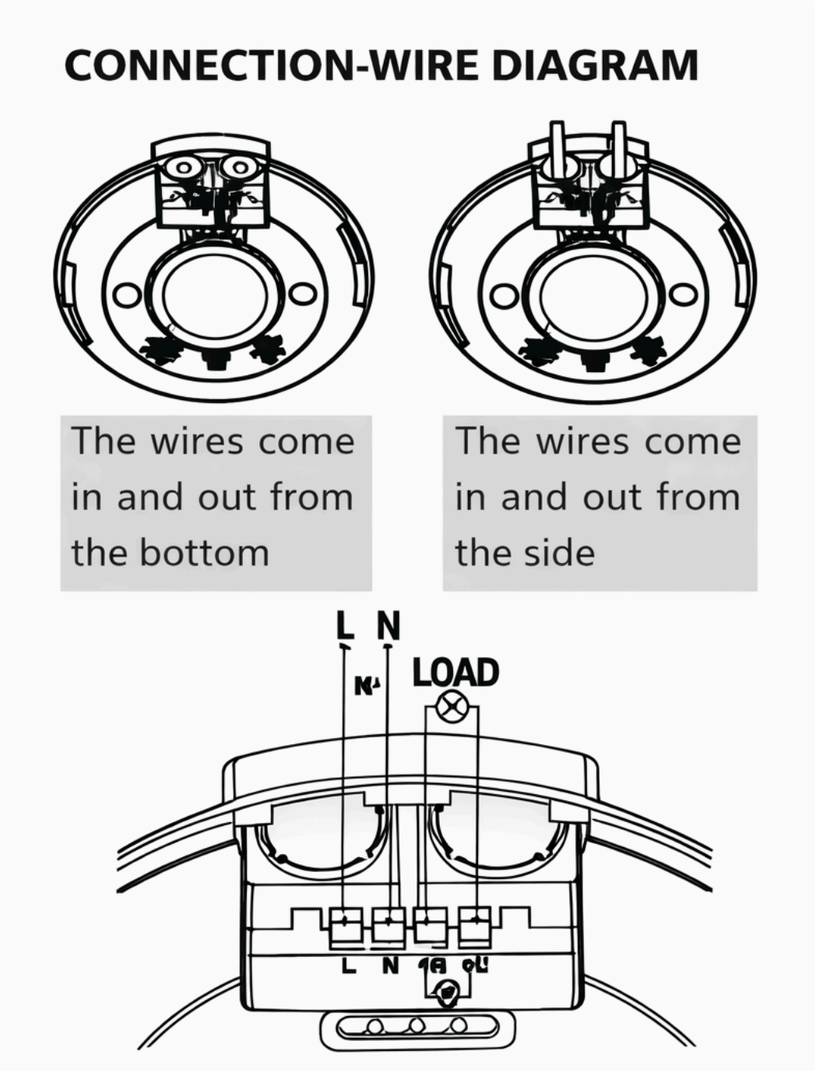
- L (Live Input) – Connect incoming live supply.
- N (Neutral Input) – Connect incoming neutral supply.
- L’ / OUT (Switched Live Output) – Connect to the load (lighting fixture).

Wiring Configuration

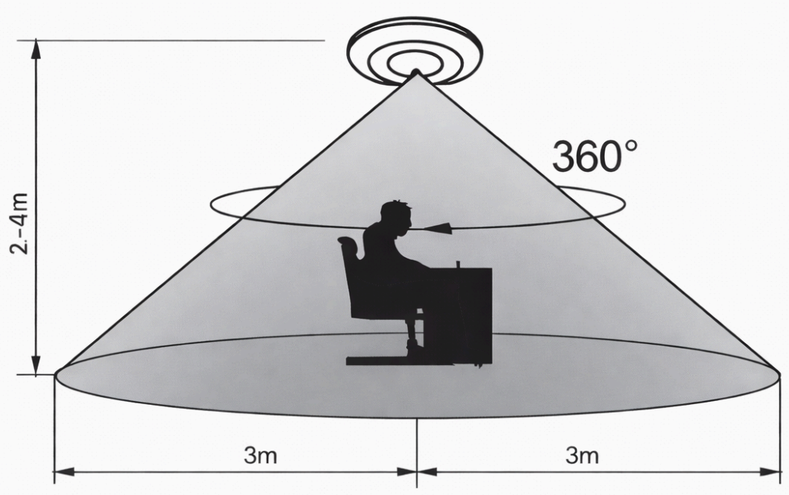
- Connect the incoming Live (L) from the mains supply to the sensor terminal marked L.
- Connect the incoming Neutral (N) from the mains supply to the sensor terminal marked N.
- Connect the load live wire to the sensor output terminal marked L’ / LOAD.
- Connect the load neutral wire directly to the mains neutral.

Cable Entry Options

- The sensor supports two wiring configurations:
- Bottom cable entry
- Side cable entry
- Select the appropriate cable routing method based on installation requirements.



SENSOR INFORMATION

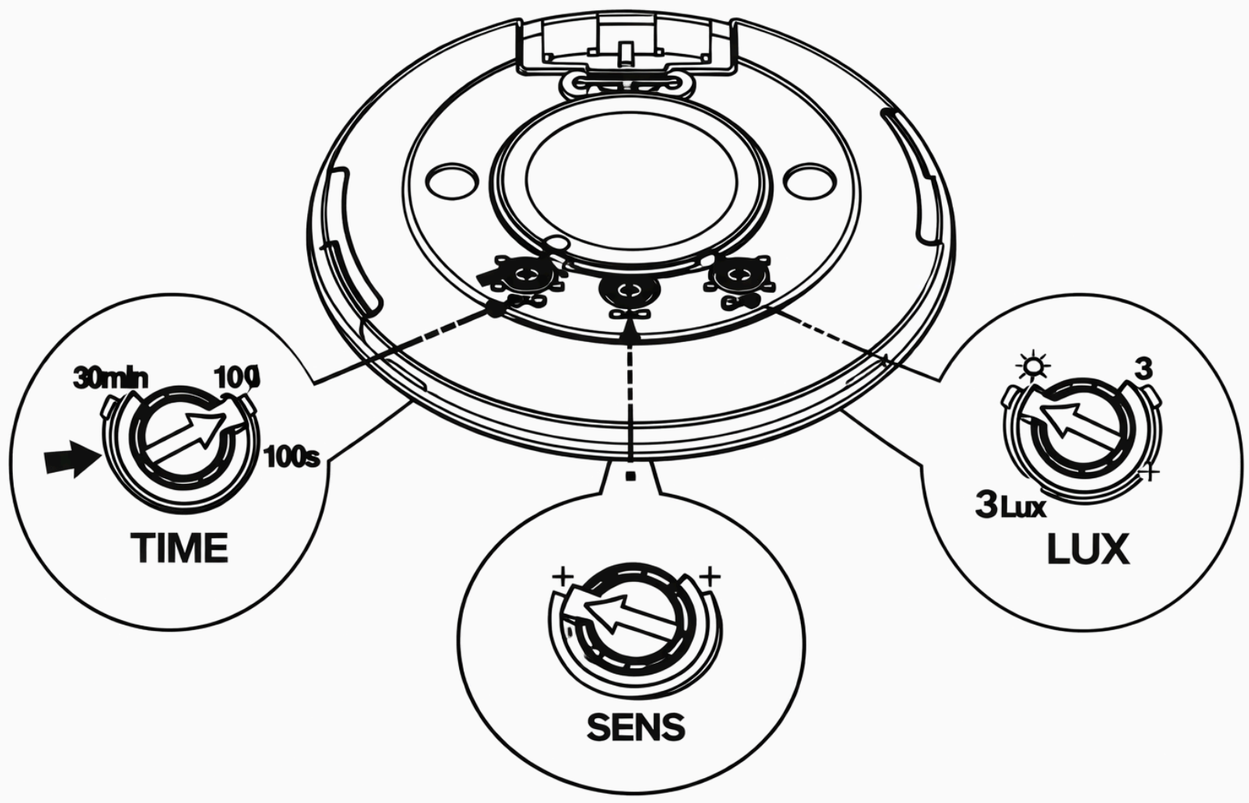


Height of installation: 2-4m

TEST PROCEDURE*(Refer to the image below)*

1. Turn the TIME knob anti-clockwise to the minimum setting (10 seconds). Turn the SENS knob clockwise to the maximum (+). Turn the LUX knob clockwise to the maximum position (SUN).
2. Switch on the power supply. The connected light will turn on immediately. After approximately 10 seconds ±3 seconds, the light will switch off automatically.
3. If the sensor detects motion again, it will resume normal operation.
4. If the sensor receives a second detection signal before the initial delay period expires, the timing cycle will restart from that moment.
5. Turn the LUX knob anti-clockwise to the minimum position (3 LUX). When the ambient light level is below 3 LUX (dark conditions), the load will activate upon motion detection.

⚠ Important: When testing in daylight conditions, ensure the LUX knob is set to the SUN position; otherwise, the sensor may not activate.



INSTALLATION NOTES

- Installation must be carried out by a qualified electrician or experienced technician.
- Do not install the sensor on uneven or unstable surfaces.
- Ensure there are no obstructions in front of the sensor that may interfere with detection.
- Avoid installation near large metal or glass surfaces that may affect microwave performance.
- Do not open the sensor housing after installation.
- To protect the device from unexpected damage, it is recommended to install a 6A protective device (e.g., fuse or circuit protection device) in the circuit.

TROUBLESHOOTING

1. Load Does Not Operate

- Check that the power supply and load wiring connections are correct.
- If the indicator light turns on after sensing, verify that the load is functioning properly.
- If the indicator light does not turn on, ensure the ambient light level corresponds to the LUX setting.
- Confirm that the supply voltage matches the specified rating of the sensor.

2. Poor Sensitivity

- Ensure there are no obstructions in front of the sensor that may block detection.
- Verify that the movement source is within the detection area.
- Confirm that the installation height complies with the recommended mounting range.

3. Sensor Does Not Switch Off Automatically

- Check for continuous movement or signals within the detection area.
- Ensure the time delay is not set to the maximum position.
- Verify that the power supply corresponds to the specified operating voltage.

EVOTEC | 5 GHz Microwave Motion Sensor



EV-MPS360-5G

The EV-MPS360-5G is a 5.8GHz microwave Motion sensor designed for high-ceiling indoor applications. Utilizing continuous-wave radar technology (ISM band), the sensor provides reliable 360° occupancy detection with extended mounting height capability up to 15 meters.

Engineered for energy efficiency and intelligent lighting control, the EV-MPS360-5G ensures automatic load switching while maintaining stable and safe microwave emission levels.

Key Features

- 5.8GHz CW microwave detection (ISM band)
- 360° ceiling-mounted coverage
- Installation height: 4–15m
- Maximum detection range: 8m radius
- Adjustable sensitivity (2m – 16m detection diameter depending on setting)
- Adjustable time delay (10 sec – 12 min)
- Adjustable daylight threshold (3–2000 LUX)
- Continuous retrigger function
- Low HF transmission power (<0.2mW)
- High load capacity

Functional Characteristics

- Day/Night automatic recognition
- Adjustable SENS control
- Continuous timing reset upon new detection
- Suitable for large-area and high-ceiling installations

Applications

- Warehouses
- Industrial facilities
- Sports halls
- Parking structures
- High-ceiling retail spaces
- Commercial buildings

Compliance & Safety

- Low Voltage Directive (LVD) 2014/35/EU
- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU

HF transmission power complies with ISM band requirements (<10mW).

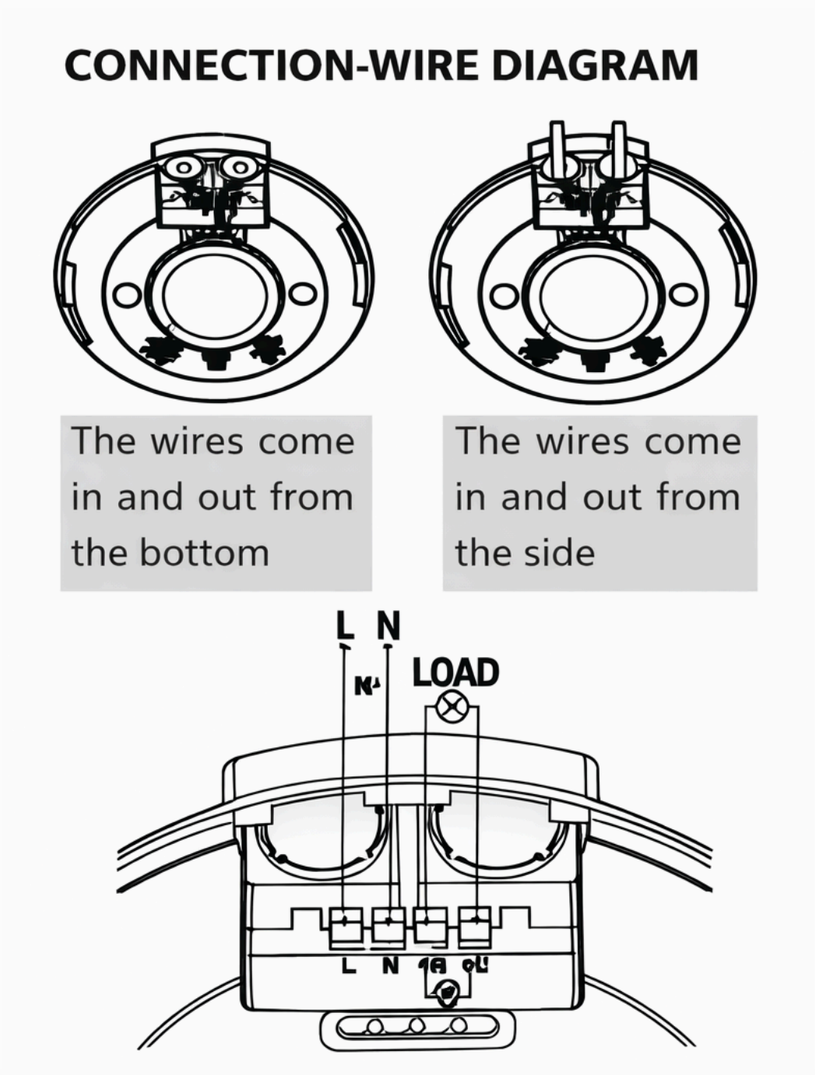
Parameter	Specification
Supply Voltage	110–240V AC
Frequency	50/60Hz
HF System	5.8GHz CW radar (ISM band)
HF Transmission Power	<0.2mW
Detection Angle	360°
Detection Distance	Max. 8m radius
Installation Height	4–15m
Sensitivity Range	Approx. 2m – 16m (adjustable)
Time Delay	10 sec ±3 sec to 12 min ±1 min
Ambient Light Setting	3–2000 LUX adjustable
Rated Load (220–240V)	Max. 2000W
Rated Load (110–130V)	Max. 1000W

Wiring Configuration

- Connect the incoming Live (L) from the mains supply to the sensor terminal marked L.
- Connect the incoming Neutral (N) from the mains supply to the sensor terminal marked N.
- Connect the load live wire to the sensor output terminal marked L’ / LOAD.
- Connect the load neutral wire directly to the mains neutral.

Cable Entry Options

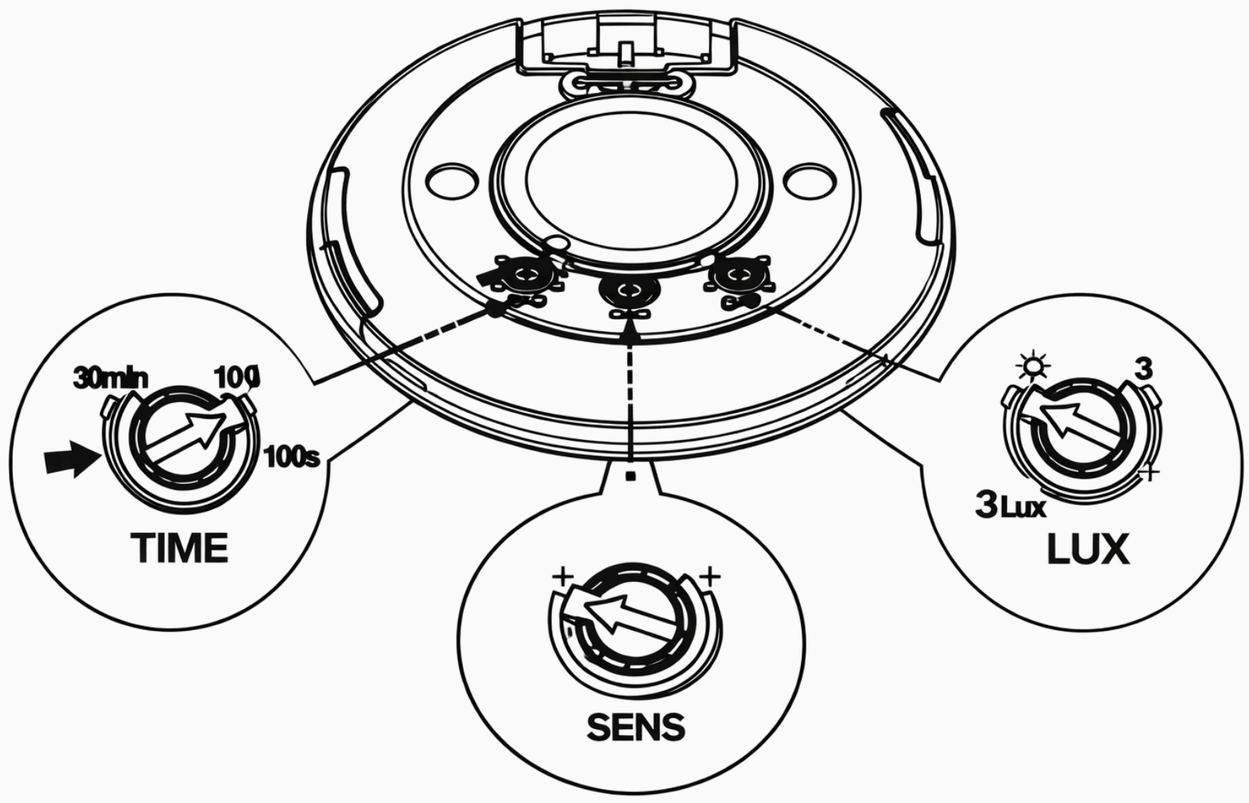
- The sensor supports two wiring configurations:
- Bottom cable entry
- Side cable entry
- Select the appropriate cable routing method based on installation requirements.



TEST PROCEDURE*(Refer to the image below)*

1. Turn the TIME knob anti-clockwise to the minimum setting (10 seconds). Turn the SENS knob clockwise to the maximum (+). Turn the LUX knob clockwise to the maximum position (SUN).
2. Switch on the power supply. The connected light will turn on immediately. After approximately 10 seconds ±3 seconds, the light will switch off automatically.
3. If the sensor detects motion again, it will resume normal operation.
4. If the sensor receives a second detection signal before the initial delay period expires, the timing cycle will restart from that moment.
5. Turn the LUX knob anti-clockwise to the minimum position (3 LUX). When the ambient light level is below 3 LUX (dark conditions), the load will activate upon motion detection.

⚠ Important: When testing in daylight conditions, ensure the LUX knob is set to the SUN position; otherwise, the sensor may not activate.



INSTALLATION NOTES

- Installation must be carried out by a qualified electrician or experienced technician.
- Do not install the sensor on uneven or unstable surfaces.
- Ensure there are no obstructions in front of the sensor that may interfere with detection.
- Avoid installation near large metal or glass surfaces that may affect microwave performance.
- Do not open the sensor housing after installation.
- To protect the device from unexpected damage, it is recommended to install a 6A protective device (e.g., fuse or circuit protection device) in the circuit.

TROUBLESHOOTING

1. Load Does Not Operate

- Check that the power supply and load wiring connections are correct.
- If the indicator light turns on after sensing, verify that the load is functioning properly.
- If the indicator light does not turn on, ensure the ambient light level corresponds to the LUX setting.
- Confirm that the supply voltage matches the specified rating of the sensor.

2. Poor Sensitivity

- Ensure there are no obstructions in front of the sensor that may block detection.
- Verify that the movement source is within the detection area.
- Confirm that the installation height complies with the recommended mounting range.

3. Sensor Does Not Switch Off Automatically

- Check for continuous movement or signals within the detection area.
- Ensure the time delay is not set to the maximum position.
- Verify that the power supply corresponds to the specified operating voltage.