



sygonix 2377680 PIR Motion Sensor Instruction Manual

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sygonix 2377680 PIR Motion Sensor Instruction



PIR Motion Sensor, 180°/360°, IP65



Intended use

- The product is an infrared (PIR) motion sensor that connects to the mains power supply. It can be wall, ceiling, or corner mounted.
- You can set a switch-on time to control how long the connected load stays on and adjust the switching threshold based on ambient light levels.
- The product is designed for private use only.
- The device has an IP65 rating. It is protected from dust, and low pressure water jets from any direction.
- If you use the product for purposes other than those described, the product may be damaged.
- Improper use can result in short circuits, fires, electric shocks or other hazards.
- The product complies with the statutory national and European requirements.
- For safety and approval purposes, you must not rebuild and/or modify the product.

- Read the operating instructions carefully and store them in a safe place. Make this product available to
- third parties only together with the operating instructions.
- All company names and product names are trademarks of their respective owners. All rights reserved

Delivery contents

- Product
- 2x Screws for bracket
- 2x Wall plugs
- Operating instructions

Latest product information

Download the latest product information at www.conrad.com/downloads or scan the QR code shown. Follow the instructions on the website

Description of symbols



The symbol with the exclamation mark in the triangle is used to indicate important information in this document. Always read this information carefully.



Risk of electric shock



Protection class 2 (double or reinforced insulation, protective insulation).



This product must only be used in dry, enclosed indoor areas. It must not become damp or wet, as this may cause a fatal electric shock



The arrow symbol indicates special information and advice on operation

Safety instructions



Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

General

- The product is not a toy. Keep it out of the reach of children and pets.
- Do not leave packaging material lying around carelessly. This may become dangerous playing material for children.
- If you have questions which remain unanswered by this information product, contact our technical support service or other technical personnel

Handling

- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. Safe operation can no longer be guaranteed if the product:
- is visibly damaged,
- is no longer working properly,
- has been stored for extended periods in poor ambient conditions or
- has been subjected to any serious transport-related stresses.
- Handle the product carefully. Jolts, impacts or a fall even from a low height can damage the product.
- Consult an expert when in doubt about the operation, safety or connection of the appliance.

Operating environment

- Do not place the product under any mechanical stress.
- Protect the appliance from extreme temperatures, strong jolts, flammable gases, steam and solvents.
- Protect the product from high humidity and moisture.
- Protect the product from direct sunlight.

Electrical installation

WARNING! Safety hazard

The product should only be installed by people with relevant electrical knowledge and experience! If it is not installed properly, you risk

- your own life
- the life of user of the electrical device
- severe damage to property, e.g., by fire
- personal liability for personal injury and material damage Always consult an electrician! *) Technical knowledge required to perform the installation:
- For the installation, the following specialist knowledge is required in particular:
- The "Five safety rules": Disconnect from the mains; protect against accidental switch-on; ensure there is no voltage; earth and short-circuit; cover or protect adjacent live parts
- Use of suitable tools, measuring devices and personal protective equipment, where necessary
- Analysis of measurement results
- Use of electrical installation materials to meet the requirements for disconnection
- IP protection ratings
- Installation of electrical installation materials

- Type of power supply (TN system, IT system, TT system) and the corresponding connection criteria (classic earthing, protective earthing, necessary additional measures etc.)
- If you are not a professional, do not do it yourself, have it performed by a specialist.

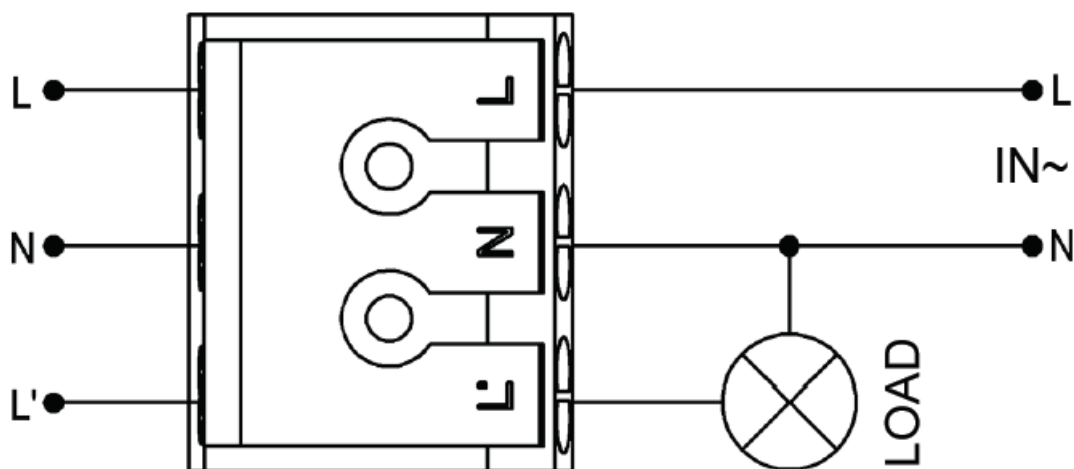
Installation

Important

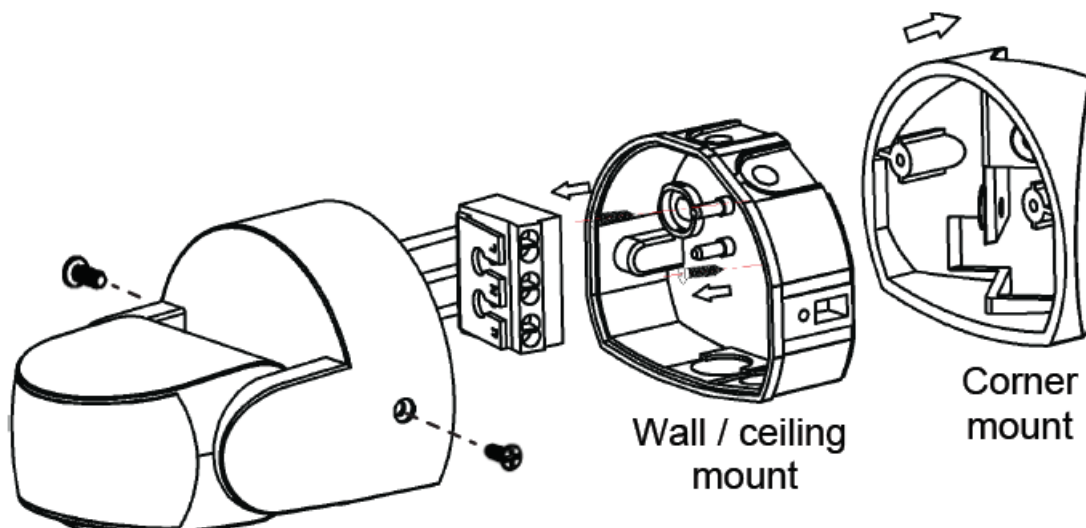
- Risk of fatal electric shock! Electrical installation to be carried out by a licensed professional.
- Observe the “Safety instructions”, especially the “Electrical installation” warning.

→ Installation consists of two parts, electrical connection and mounting

Wiring diagrams

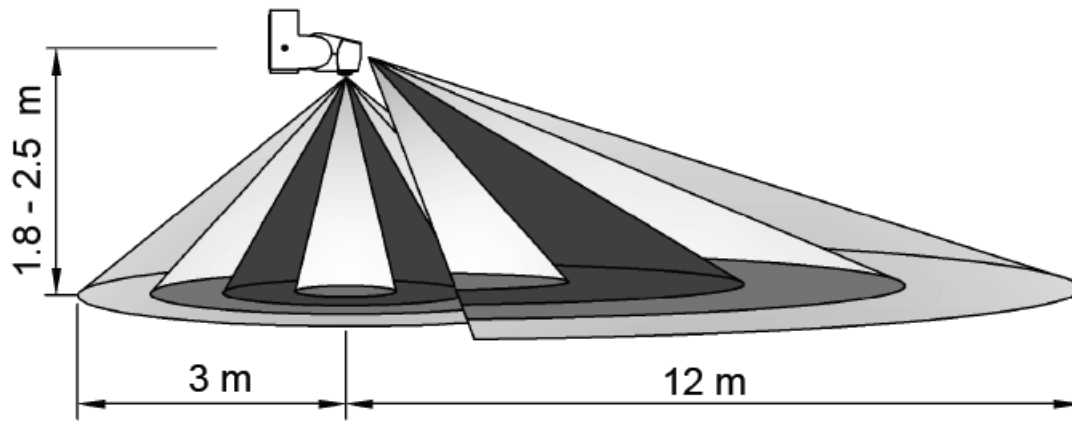


Mounting



Sensor coverage area

→ If the connected light is ≥ 60 W, the distance between light and sensor should be ≥ 60 cm.



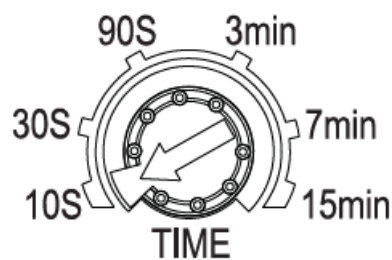
Motion sensor (PIR)

The passive infrared (PIR) motion sensor reacts to changes in temperature, e.g. when a person or animal enters the detection area

- Position the sensor so the object moves across the detection area.
- The correct installation height should be observed.
- Do not point the sensor at radiators, lights, or objects with varying temperatures (e.g. electronic equipment), and objects that may move due to the flow of air. This may trigger the sensor unintentionally.
- Do not install the product behind glass.
- Keep the sensor away from direct sunlight.

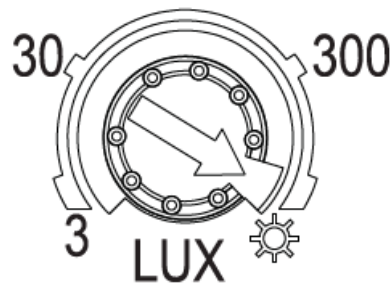
Operation

Switch-on time “TIME



- Control how long the connected the load stays ON after the sensor is triggered.
- If new motion is detected during the switched-on time, the timer will restart.
- See section “Technical data, PIR sensor time delay”.
- Dial settings:
 - Counter clockwise: decrease the duration.
 - Clockwise: increase the duration.

Switching threshold “LUX”



- You can adjust the switching threshold for different ambient light levels.
- Counter clockwise: activates motion detection in darker conditions.
- Clockwise: activates motion detection in brighter conditions.

Troubleshooting

Problem	Possible causes
Connected load does not switch ON.	<ul style="list-style-type: none"> ■ Check the LUX setting, it should correspond to ambient light levels. E.g., if it is set too high the sensor will not trigger in the dark. ■ Check the power supply is functioning correctly. ■ Check if the connected device (e.g., lamp) is functioning correctly. ■ Movements within the detection area are too rapid and are filtered out by the electronic system to prevent switching errors.
Motion detection is not functioning correctly	<ul style="list-style-type: none"> ■ The ambient temperature is too high. ■ There are obstructions preventing the sensor from detecting heat sources (e.g., glass). ■ Check that if there are induction sources within detection area. ■ Observe the correct installation height. See section “Technical data” for further information.
The connected load is always ON.	<ul style="list-style-type: none"> ■ Constant movements are occurring within the detection area. ■ New movement is detected before the previous switch-ON time has elapsed. Try setting a shorter time interval.

Cleaning and care

Important

The product is generally maintenance-free. Any repair or maintenance work must be carried out by a specialist. Clean the product with a dry, fibre-free cloth.

NOTICE! Do not use aggressive cleaning agents, rubbing alcohol or other chemical solutions as they can cause damage to the housing and malfunctioning.

Disposal

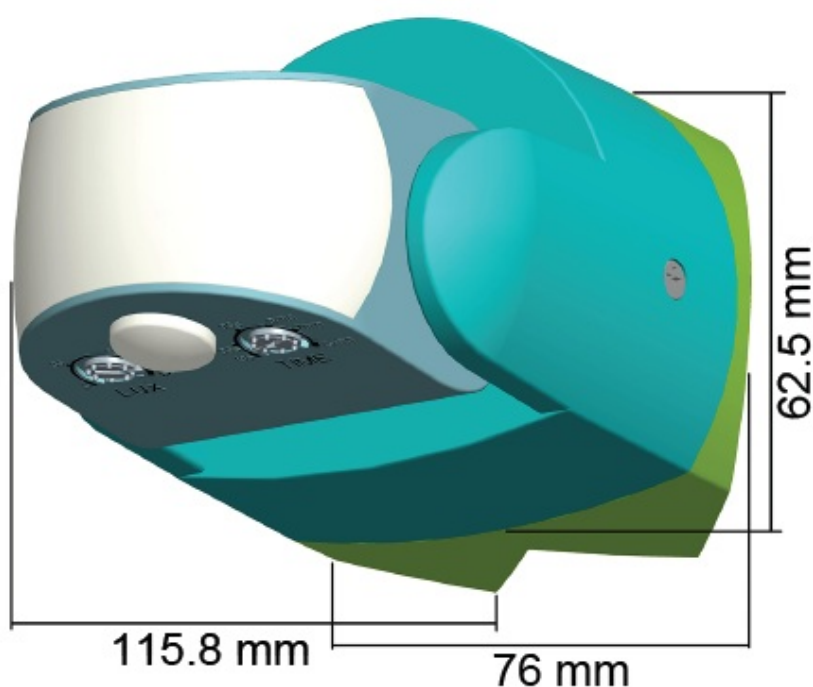


Electronic devices are recyclable waste and must not be disposed of in the household waste. At the end of its service life, dispose of the product in accordance with applicable regulatory guidelines


You thus fulfill your statutory obligations and contribute to the protection of the environment

Technical data

- Operating voltage 220 – 240 V/AC 50/60 Hz
- Rated load max. 1200 W resistive (e.g. incandescent lamp)
- max. 600 W inductive (e.g. energy-saving lamp or LED)
- Power consumption 0.58 W (static) 0.68 W (active)
- PIR sensor activation 3 – 2000 lux (adjustable)
- PIR sensor detection range Small sensor: max. 6 m (<24 °C)
- Large sensor: max. 12 m (<24 °C)
- PIR sensor detection angle Small sensor: 180° Large sensor: 360°
- PIR sensor installation height 1.8 – 2.5 m
- Protection class II
- Operating humidity <93 % RH
- Operating temperature -5 to +30 °C
- Storage humidity <93 % RH
- Storage temperature -20 to +40 °C
- Dimensions (L x W x H) 116 x 76 x 63 mm
- Weight (approx.) 150 g



Documents / Resources

	<p>sygonix 2377680 PIR Motion Sensor [pdf] Instruction Manual 2377680, PIR Motion Sensor, 2377680 PIR Motion Sensor, Motion Sensor, Sensor</p>
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References

- [!\[\]\(1207edb9a08751d3d55970560645ed23_img.jpg\) Conrad Electronic » Your Sourcing Platform](#)
- [!\[\]\(d7a34a706cfa4ef37c62a369101e1b36_img.jpg\) Conrad Electronic » Your Sourcing Platform](#)
- [!\[\]\(7325769475e8f4bf67f57a0cbebc8ab9_img.jpg\) Document](#)

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