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# PEREL<sup>®</sup>

## PEREL EMS201 Motion Detector



## Product Information

## Specifications

- **Switch Type:** Relay
- **Rated Load:**
  - **Tungsten:** max. 800 W – max. 4 A
  - **Fluorescent:** max. 400 W – max. 2 A
  - **LED:** max. 400 W – max. 2 A
- **IP Rating:** IP20
- **Power Supply:** 230 V~, 50 Hz
- **Working Humidity:** < 93% RH
- **Time-Delay Switch:** –
- **Light Control:** –
- **Dimensions:** 74.6 x 36 x 18 mm
- **Lens Diameter:** 12 mm
- **Weight:** 57 g

## Product Usage Instructions

### Safety Instructions

Ensure the power is switched off before starting any installation or maintenance procedures. Always follow safety guidelines to prevent any accidents.

### General Guidelines

Read and understand the manual and all safety signs before using the product. Make sure the device is suitable for indoor use only.

### Installation

#### Guidelines

1. Switch off the power before installation.
2. Fix the appliance in the chosen location using appropriate screws.

### Connection

**Warning:** Risk of electroshock! Always have qualified personnel handle any repairs. Disconnect the power source and ensure live components are covered and shielded.

Connect according to the wire diagram provided. Switch on the power only after ensuring all connections are secure.

## Testing

To test, move your hand in front of the sensor – the lamp should switch on. Repeat the motion to switch off the lamp.

## Care and Maintenance

The device does not require specific maintenance. Wipe it occasionally with a damp cloth to maintain its appearance. Avoid using harsh chemicals or strong detergents.

## Introduction

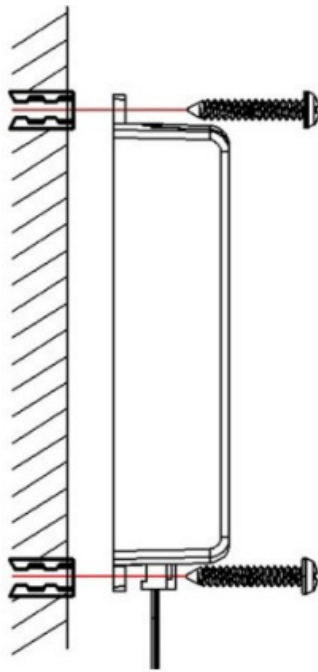
To all residents of the European Union

Important environmental information about this product



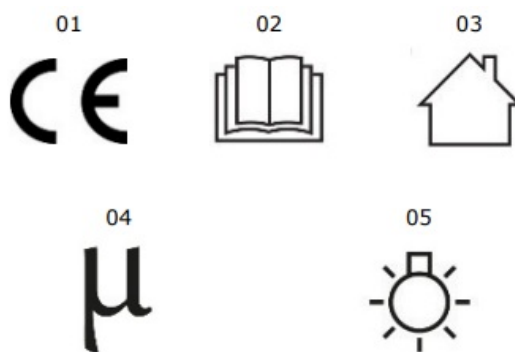
This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules. If in doubt, contact your local waste disposal authorities.

Thank you for choosing Perel! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.



## Symbols

- **01** CE marking.
- **02** Read and understand this manual and all safety signs before using this appliance.
- **03** Indoor use only.
- **04** Switch of micro-gap construction.
- **05** Incandescent lamp.



## Safety Instructions

- This device can be used by children aged from 8 years and above, and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the device in a safe way and understand the hazards involved. Children shall not play with the device. Cleaning and user maintenance shall not be made by children without supervision.

- Do not disassemble or open the housing.
- There are no user-serviceable parts inside the device. Refer to an authorized dealer for service and/or spare parts.
- Do not immerse the device in any liquid. Keep away from high heat and fire.

## **General Guidelines**

- Refer to the Velleman® Service and Quality Warranty on [www.velleman.eu](http://www.velleman.eu).
- Protect this device from shocks and abuse. Avoid brute force when operating the device.
- Familiarise yourself with the functions of the device before actually using it.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorised way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Keep this manual for future reference.

## **INSTALLATION**

### **Guidelines**

- Choose a proper installation location. Avoid places where temperature changes frequently, e.g. near air conditioners or heating devices.
- Avoid pointing the appliance towards objects with highly reflective surfaces such as mirrors.
- Avoid pointing the appliance near heat sources such as heating vents, air conditioning units, etc.
- Avoid pointing the appliance towards objects that may move in the wind such as curtains, plants, etc.
- Install the appliance at a distance of minimum 60 cm when using a lamp of 60 W or more.
- Make sure the installation surface is immobile.

- Also, avoid obstructions or moving objects in the detection field of the appliance to prevent unnecessary activation.
- The minimum installation height is 1.7 m, the maximum installation height is 3.5 m.

## Installation

- Switch off the power.
- Fix the appliance in the chosen installation location with the appropriate screws.

## Connection

**Warning!** Risk of electroshock! Touching live wires can cause life-threatening electroshocks. Have the device repaired by qualified personnel. Disconnect the power source. Cover and shield any adjacent live components. Ensure the device cannot be switched on. Make sure the power supply is disconnected.

- Connect according to the wire diagram.
- Switch on the power and proceed with testing.

## Testing

- When you move your hand in front of the sensor, the lamp will switch on.
- When you move your hand again, the lamp will switch off.

## Care and Maintenance

The appliance does not need any particular maintenance. However, occasionally wipe it with a damp cloth to keep it looking new. Do not use harsh chemicals, cleaning solvents or strong detergents.

## Specifications

- switch type ..... relay
- detection angle ..... 160°
- detection range ..... 5-6 cm (< 24 °C)
- rated load
  - tungsten ..... max. 800 W – max. 4 A

- fluorescent..... max. 400 W – max. 2 A
- LED ..... max. 400 W – max. 2 A
- IP rating ..... IP20
- power supply ..... 230 V~, 50 Hz
- working temperature ..... -10 °C to +40 °C
- working humidity ..... < 93 % RH
- time-delay switch ..... –
- light control ..... –
- dimensions ..... 74.6 x 36 x 18 mm
- lens diameter ..... 12 mm
- weight ..... 57 g

Use this device with original accessories only.

Velleman nv cannot be held responsible in the event of damage or injury resulting from (incorrect) use of this device. For more info concerning this product and the latest version of this manual, please visit our website [www.velleman.eu](http://www.velleman.eu). The information in this manual is subject to change without prior notice.

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## Frequently Asked Questions

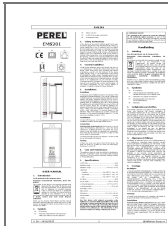
### **Q: Can this product be used outdoors?**

**A:** No, this product is designed for indoor use only.

### **Q: What should I do if the device is damaged during transit?**

**A:** Do not install or use the device if it was damaged during transit. Contact your dealer for assistance.

# Documents / Resources



[PEREL EMS201 Motion Detector \[pdf\]](#) Instruction Manual

01, 02, 03, 04, 05, EMS201 Motion Detector, EMS201, Motion Detector, Detector

## References

- [User Manual](#)

📄 -02, -03, -04, -05, 01, Detector, EMS201, EMS201 Motion Detector, Motion Detector,

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