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## USER MANUAL

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# 1 Safety instructions

## 1.1 In general

*The user manual is part of the product and contains important information for correct use.*

- >> Read the user manual completely and carefully before use.

*The user manual must be available for uncertainties and passing the product.*

- >> Keep this user manual.
- >> Installation, assembly, maintenance and repair work must be carried out only by trained electrical specialists.

### **Risk of electric shock**



- >> Cut off power supply before any work on the product, switch off safety fuses and secure against reconnection.
- >> Assure and check the absence of voltage before any work on the product.
- >> Do not modify product and accessories.
- >> Do not cover the product.
- >> Do not use in sealed environments.
- >> Avoid stresses such as heat and cold, moisture and direct sunlight, vibration and mechanical pressure.

*Motion detectors are not suitable as a component of alarm systems within the meaning of the Association of Property Insurers (VdS). They can trigger false alarms if the installation place has been chosen unfavorably.*

- >> Only use EN 60998-2-1 and EN 60998-2-2 tested terminals.
- >> Follow local installation and building regulations.
- >> In case of questions, defects, mechanical damage, trouble and other problems, non-recoverable by the documentation, contact your dealer or producer.
- >> Use product, product parts and accessories only in perfect condition.
- >> Pay attention to current-carrying or other lines, lying behind plaster and do not damage them!

## 1.2 Warning levels



Warnings against hazards that may result in **serious injuries or death** in case of nonobservance.



Warnings against hazards that may result in **injuries** in case of non-observance.



Warnings against hazards that may result in **material damage** in case of non-observance.

## 2 Description and Function

EN

### 2.1 Product

Your product is a microwave / radar motion sensor for indoor use and represents electrotechnical fittings.

It works on the Doppler principle and sends out microwaves. These are reflected from objects in the detection area and evaluated by the sensor. If frequency changes, the activation of the connected load is done.

Compared to infrared motion detectors, the RF sensor technology also penetrates glass, wood and stud walls and reacts to each movement, independent of heat.

### 2.2 Product parts

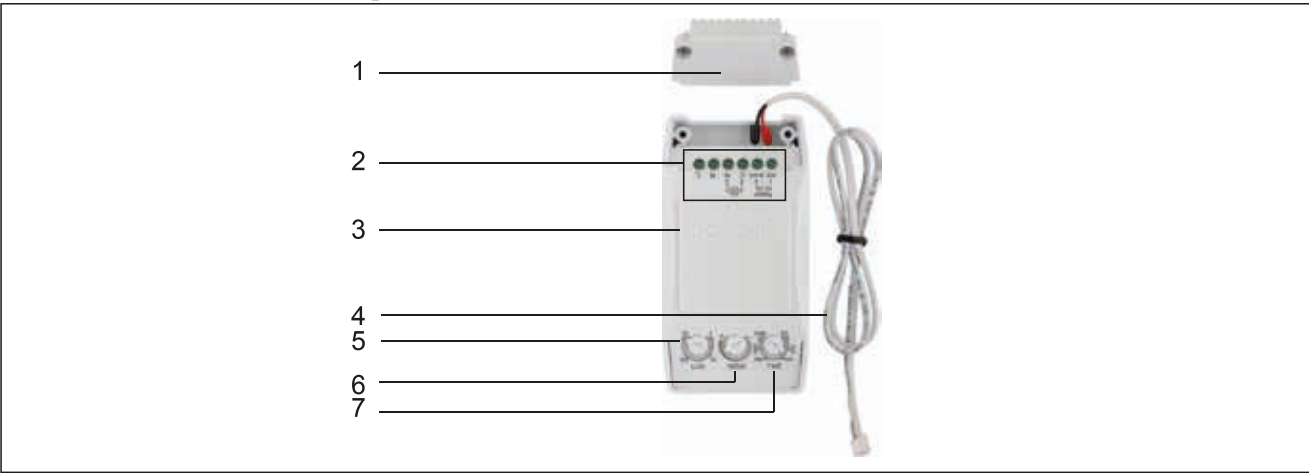


Fig.6: Product parts

- 1 Cover cap
- 2 Terminals
- 3 Housing
- 4 Sensor
- 5 Brightness sensitivity
- 6 Trip Sensitivity
- 7 Switch-OFF delay

### 2.3 Scope of Delivery

Ceiling-mounted flat Microwave Motion Sensor, User manual

### 2.4 General specifications

Voltage	220-240 V~ 50 Hz
Standby power	≤0.5 W

Rated load	max. 1200 W (incandescent lamps), max. 300 W (energy-saving lamps)
Power consumption	~0.9 W
Detection area	2-16 m (<24 °C)
Detection angle	360° wall/ceiling installation
Switch-off delay	10±3 s ~ 12±1 Min.
Brightness sensitivity	<3-2000 lx / day and night (☀/☾)
HF System	5.8 GHz CW Radar, ISM Band
Transmission power	<0,2 mW
Ceiling mounting height	1,5-3,5 m
Motion detection	0.6-1.5 m/s
Protection level	IP20
Environment conditions	-20 ~ +40 °C, 93 % RH
Switch	Relais
Minimum load	1 W (incandescent and LED/Energy saving lamps)
Dimensions	96.2 x 51 x 28 mm
Sensor diameter	7 mm
Weight	82 g

Tab.3: Specifications

### 3 Intended Use

**IP20** We do not permit using the device in other ways like described in chapter “Description and Function“ and „Safety Instructions“. This product is protected against medium sized foreign objects, but not against water ingress. Not attending to these regulations and safety instructions might cause fatal accidents, injuries, and damages to persons and property.

### 4 Preparation

- Compare the specifications of all used devices to ensure compatibility.
- Check the scope of delivery for completeness and integrity.

## 5 Installation

### **WARNING**

#### Risk of electric shock



- Let open cable ends **ONLY** assemble by experienced electrician.
- Cut off power supply before any work on the product, switch off safety fuse and secure against reconnection.
- Assure and check the absence of voltage before any work on the product.

The power cord used should have a minimum cross section of 1.0 mm<sup>2</sup>. The following connections are made to the terminal block of the product.

1. Remove the cover cap.
2. Connect your lamps (LOAD) like shown.  
*If using several lamps, they must be wired in parallel.*  
*The sensor (4) is pre-installed.*

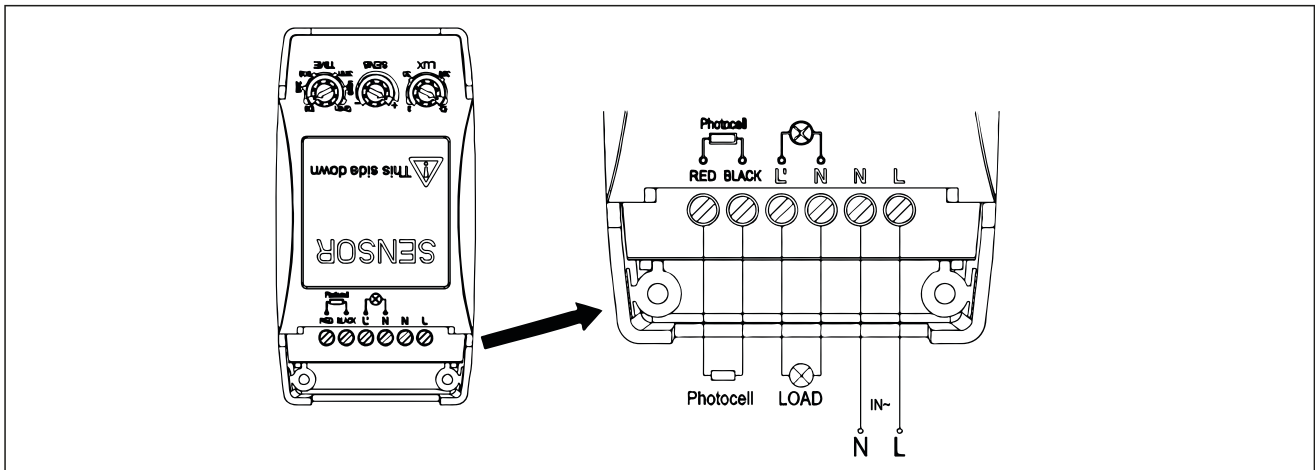


Fig.7: Installation

3. Fix all wire connections using a screwdriver.
4. Insulate the connection against contact and moisture.  
*The earth wire will not be connected.*

## 6 Mounting

### **CAUTION**

#### Risk of falling / Material damage



- Place and use tools safely.
- Pay attention to current-carrying or other lines, lying behind plaster and do not damage them!

1. Select the mounting place according to the following criteria:

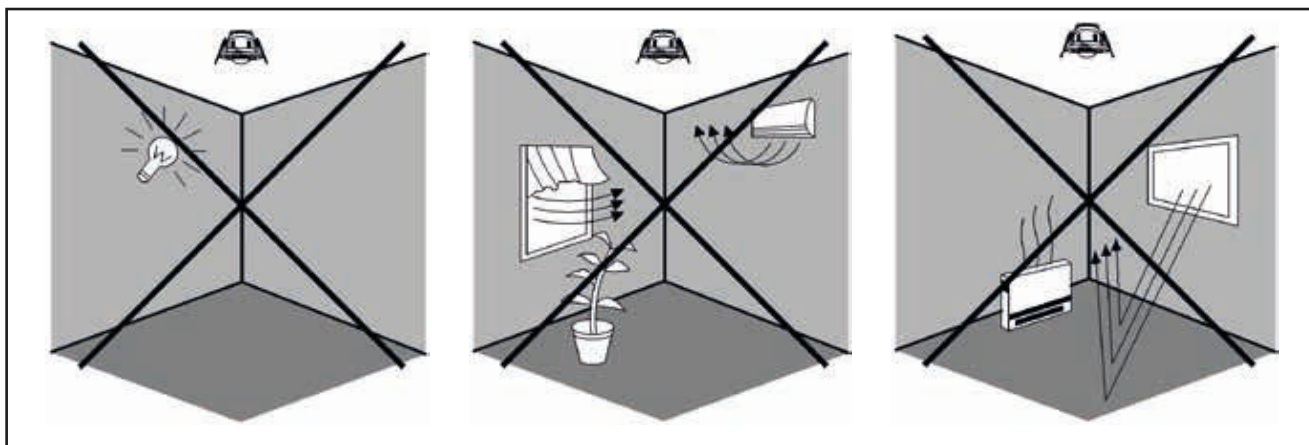


Fig.8: Mounting place

- The surface must be stable.
- The product must be attached absolutely straight.
- Plants, street lighting, reflective surfaces or randomly moving objects must not be located in the detection range.
- The recommended mounting height is 1,5-3,5 m.

2. Stow the motion sensor, for example, behind the drywall.

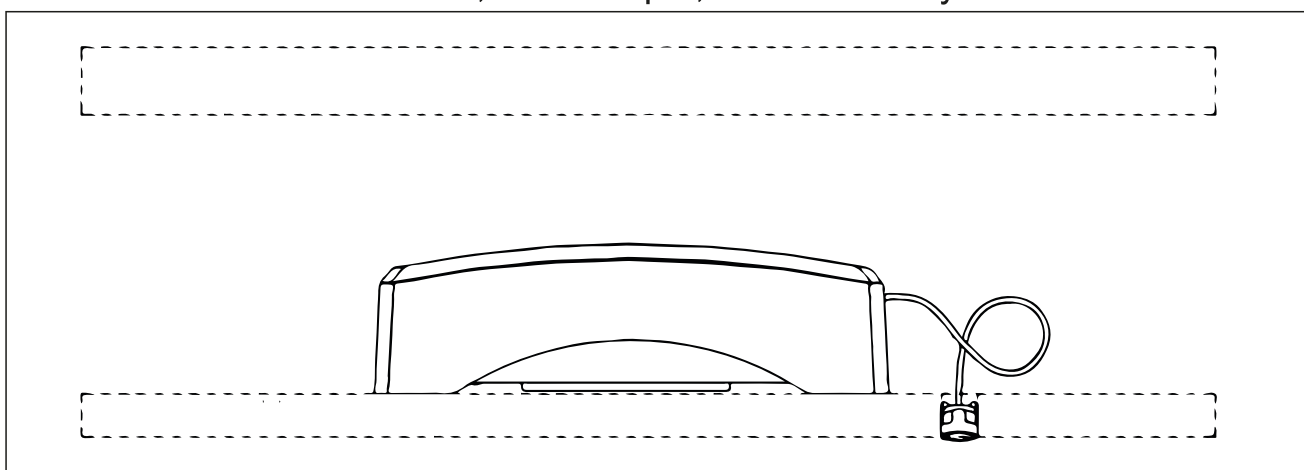


Fig.9: Mounting

5. Set the adjustments like shown in chapter 7.

6. Assemble the cover cap.

## 7 Settings

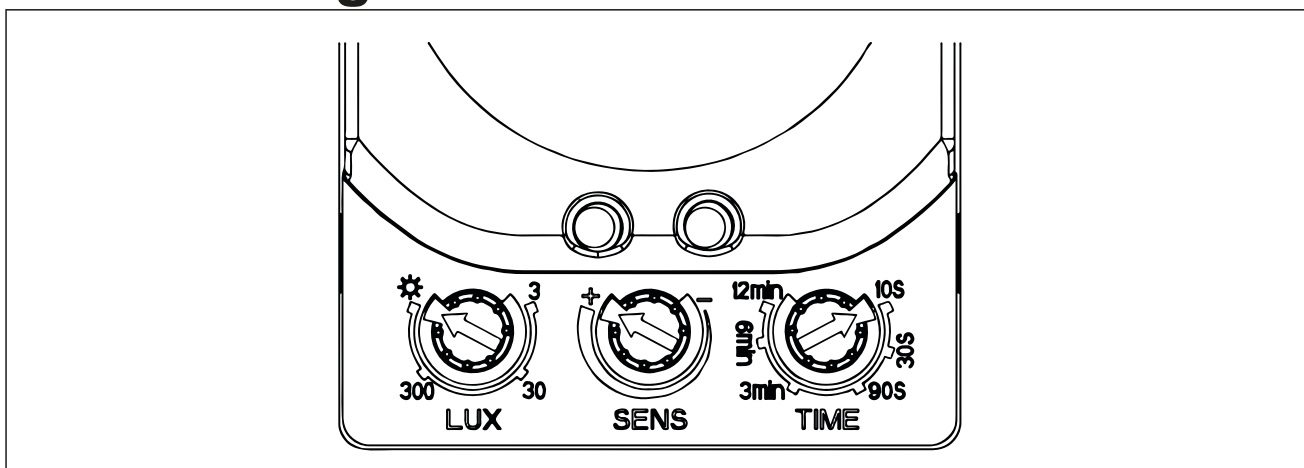
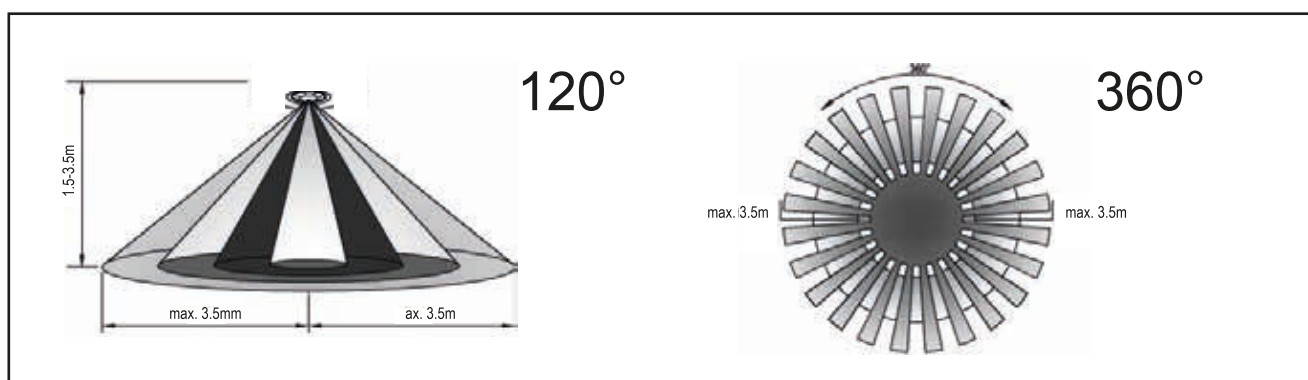


Fig.10: Settings

## 7.1 Changing settings

1. Adjust the switch-off delay TIME by using a screwdriver between 10 seconds and 12 minutes.
2. Adjust the preferred brightness sensitivity LUX by using a screwdriver.  
*The lighting intensity in LUX is the response limit, the motion detector triggers below. If this trigger only should work at night, it must be set to 3 LUX. If the motion sensor should trigger at night and day, set it to the sun symbol ☀. The trigger sensitivity settings for twilight, etc. are indeed after installation and must be tested depending on demand.*
3. Set the reach SENS a between 1,5-3,5 m.

## 7.2 Reach



Tab.4: Reach

## 8 Maintenance, Care, Storage and Transport

The product is maintenance-free.

### NOTICE

#### Material Damage

- Only use a dry and soft cloth for cleaning.
- Do not use detergents or chemicals.
- Store cool and dry.
- Store the product out the reach of children and in a dry and dust-protected ambience when not in use.
- Keep and use the original packaging for transport.

## 9 Liability notice



We reserve the right to printing errors and changes to product, packaging or product documentation.

- See our terms of warranty. These are available in their current form under the given contact details.

## 10



## Disposal Instructions

According to the European WEEE directive, electrical and electronic equipment must not be disposed with consumers waste. Its components must be recycled or disposed apart from each other.

Otherwise contaminative and hazardous substances can pollute our environment.

As a consumer, you are committed by law to dispose electrical and electronic devices to the producer, the dealer, or public collecting points at the end of the devices lifetime for free. Particulars are regulated in national right. The symbol on the product, in the user's manual, or at the packaging alludes to these terms. With this kind of waste separation, application, and waste disposal of used devices you achieve an important share to environmental protection.

WEEE No: 82898622

## 11



## EU Declaration of Conformity

Hereby Goobay®, a registered trademark of Wentronic GmbH ensures, that the mentioned radio system type is conformed to Directive 2014/53/EU. The full text of EU Declaration of Conformity is available at the following Internet address: <https://www.wentronic.de/en/>