

# PIR 360° MOTION SENSOR FOR INSTALLATION IN SUSPENDED CEILING MCR-07

USER MANUAL

**exta**

ZAMEL Sp. z o.o.

**zameL**

ul. Zielona 27, 43-200 Pszczyna, Poland  
Tel. +48 (32) 210 46 65, Fax +48 (32) 210 80 04  
www.zamel.com, e-mail: export@zamel.pl

## NOTE

Read this User Manual carefully before connecting and operating the device. The device must be installed by a qualified electrician. Connect this product to a single-phase power system according to applicable standards. See this Manual for the wiring instructions. The activities related to the installation, connection and adjustment should be performed by qualified electricians, familiar with the User Manual and functions of the device. Do not open or otherwise disassemble the product enclosure; otherwise the product warranty will be void and an electrocution hazard may occur. Prior to installing and wiring this product, make sure that the wiring to be connected is not live. The conditions and methods of transport, storage and operation of this product may affect its performance. Do not install the products if any of its components are missing, the product is damaged or deformed in any way. If any malfunctions are found, consult the manufacturer. The manufacturer is not liable for any damage resulting from improper installation or operation of the device. Any repairs or modifications made independently will void the warranty. Since the technical data are subject to constant modifications, the Manufacturer reserves the right to change the product characteristics and introduce other design solutions for the device.

## DESCRIPTION

MCR-07 motion sensor is used for automatic control of lighting or any other electricity receiver. Its design is based on a state-of-the-art passive infrared sensor (PIR). The device detects motion in the monitored area within the radius of approx. 5 m, 360° around the sensor. In addition, it checks the ambient lighting intensity condition. If the device detects motion and the lighting level is below the set value, the sensor will turn on the lighting, start measuring the set time and then turn off the lighting automatically. This way, the sensor ensures optimum control of energy flow, optimising costs of illuminating passageways, toilets, utility rooms, etc. The device design enables easy installation of the sensor directly in suspended ceiling and plasterboard.

## TECHNICAL DATA

Supply voltage:	230 V AC
Supply voltage frequency:	50 Hz
Motion detection angle:	360°
Maximum operating area:	6 m
Light switch time:	3 s + 15 min
Time measurement accuracy:	10 s ± 3 s - 15 min ± 2min
Light sensor setting range:	3 + 2000 lux
Permissible load:	Traditional lamps: 1200 W Compact fluorescent lamps (CFL): 300 W LED lamps: 60 W
Power consumption:	<0,5 W
Installation height:	2-4m
Operating temperature:	-20 + +40 °C
Permissible humidity:	< 93% RH
Dimensions:	75,6 x 76 mm
Weight:	0,5 kg

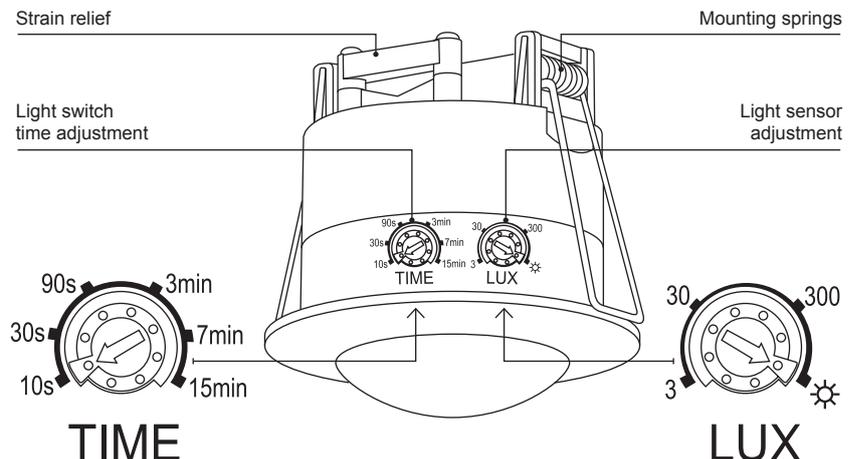
## FEATURES

- The detection angle is 360 degrees.
- Device installation in suspended ceiling board.
- Motion detection within approx. 5÷6 m from the sensor.
- Lighting time setting from 10 seconds to 15 minutes.
- Built-in lighting sensor tripping threshold setting within 10÷2000 lux.
- Low power consumption - below 0.5 W.

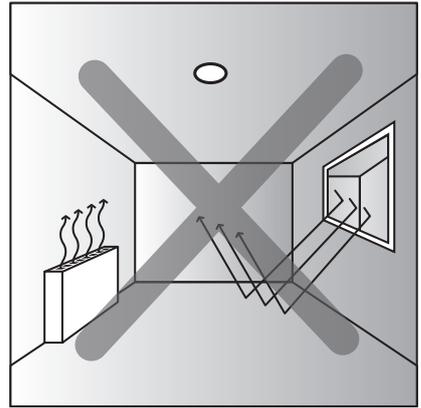
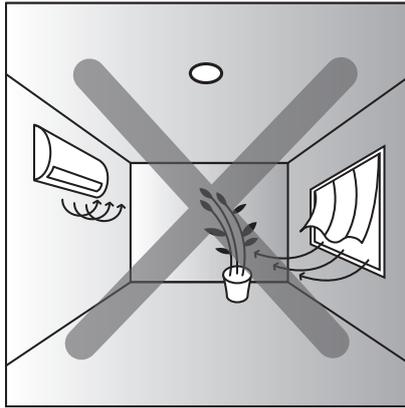
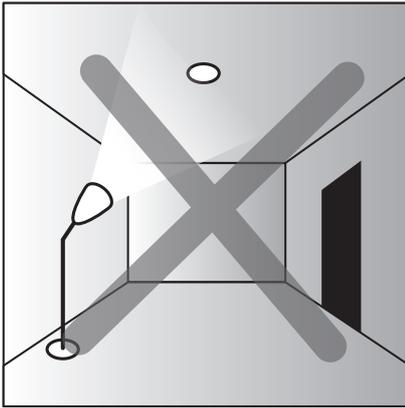


Do not dispose of this device in the trash can with other waste! In order to avoid harmful effects on the environment and human health, store used device in specially designated places. Household electronic waste can be returned for free and in any amount to the collection point established for this purpose, and also to the shop when buying new equipment.

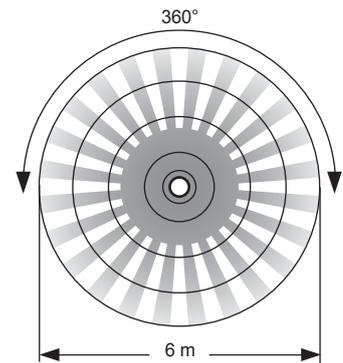
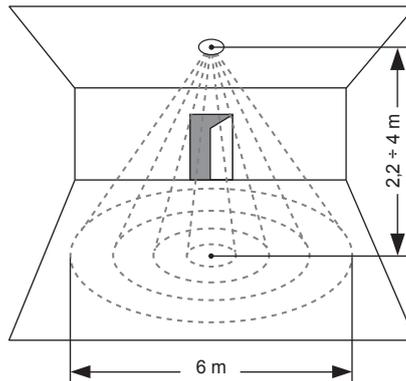
## APPEARANCE



## NOTES

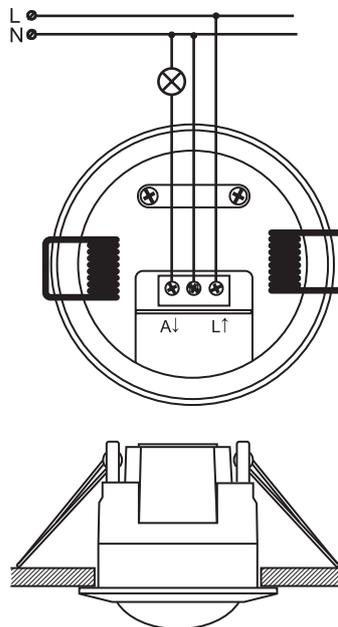


- Since the device uses changes in infrared radiation caused by thermal changes in the monitored area, it should not be installed:
  - opposite objects with highly reflective surfaces, such as mirrors,
  - near sources of heat, such as heaters, fireplaces, air-conditioning units, high-power lighting, etc.,
  - near objects that may move in the wind, such as curtains, high plants, shrubs, etc.
- The device should be installed approx. 2+4 m high. Then the diameter of the monitored area is approx. 6 m.

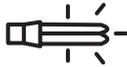


## INSTALLATION & CONNECTION

1. Select the location where the device is to be in-stalled.
2. Disconnect the supply circuit with a fuse, an over current circuit breaker or an isolator connected to the corresponding circuit.
3. Check the voltage-free status of the power cords with a suitable instrument.
4. Remove the transparent piece of the connection terminal cover.
5. Remove the cable holder.
6. Connect the wires to the terminals according to the connection diagram.
7. Reassemble the transparent cover of the connection terminals.
8. Fix the wires with the cable holder.
9. Adjust the circuit lighting time and light intensity with the LUX and TIME potentiometers.
10. Bend the metal springs and place the sensor in the mounting hole of the suspended ceiling or the mounting box.
11. When the springs are released, the device is automatically held in the mounting hole.
12. Turn on the device supply voltage.



## RELAY CAPACITY

	1200 W
	300 W
	800 W
	500 W
<b>LED</b>	60 W

## WARRANTY CARD

24-month commercial warranty granted by the manufacturer

1. ZAMEL Sp. z o.o. grants a 24-month warranty for the goods it sells.
2. The warranty granted by ZAMEL Sp. z o.o. does not cover:
  - a) mechanical damage caused by transport, loading/unloading or other circumstances,
  - b) any damage resulting from improper installation or use of the goods sold by ZAMEL Sp. z o.o.,
  - c) any damage resulting from any modifications made by the BUYER or any third party to the sold goods or to the equipment required for the proper functioning of the sold goods,
  - d) damage caused by any force majeure event or another fortuitous event beyond any reasonable control of ZAMEL Sp. z o.o.
3. The BUYER shall report all warranty claims in writing at the point of sale or to ZAMEL Sp. z o.o.
4. ZAMEL Sp. z o.o. will examine each warranty claim as regulated by the applicable provisions of the Polish law.
5. The form of warranty claim resolution, i.e. replacement, repair or refund of the price of purchase, shall be decided upon by ZAMEL Sp. z o.o.
6. This warranty does not exclude, limit or suspend any rights of the BUYER arising from the statutory or regulatory laws concerning implied warranty for defects of sold goods.

Seller's stamp and signature with date of sale