MOTION SENSOR PIR 120/360° miniature with a probe, IP65 on the MCR-08 conductor

USER MANUAL

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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 be 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

The MCR-08 miniature motion sensor is designed for automatic light control or for controlling any other electric receiver. Its design is based on a state of the art infrared (PIR) motion detector system. The device detects motion in the monitored area within the radius of ca. 3 or 6 m, within 120° / 360° around the sensor. The device was designed to miniaturize the detector's electronic part and to enable its operation with the use of an external, hermetic sensor (IP54) mounted on a cable. The condition of external light intensity is additionally verified. If the device detects motion and the light intensity level is below the setting value, the sensor will turn the light on and start to count the preset time, after which the light will be automatically turned off. The device includes a set of switches for simple and repeatable setting and adjustment. This facilitates the installation of devices in the case of larger systems. Thanks to its specific design and operation, the sensor provides optimal control over the energy flow, optimizing the costs of illuminating communication routes, stairs, toilets and facilities, etc. The design of the device's mechanics facilitates the installation of the sensor directly in a suspended ceiling and in drywall. It is also possible to adapt the device to fit in a junction box, where the cable probe will monitor the preset area after it is led out and fixed in a desired place under the equipment cover.

FEATURES

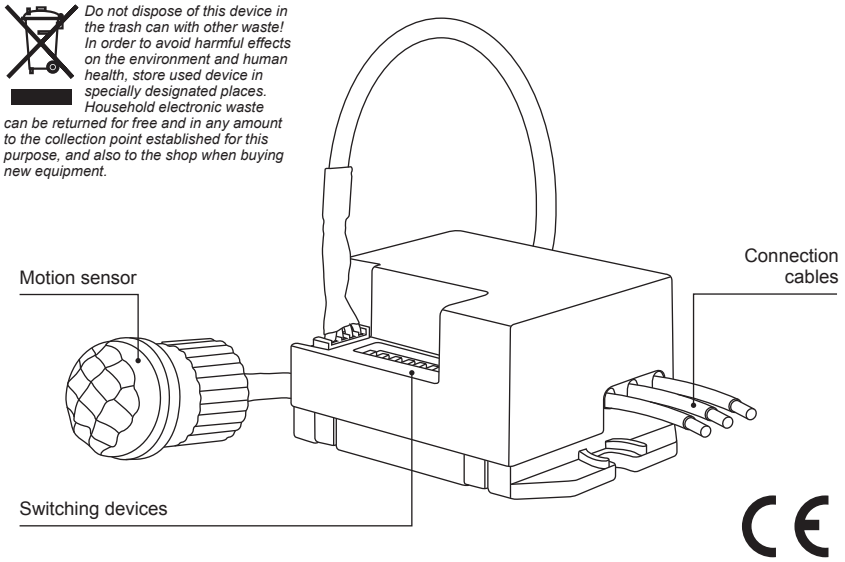
- Detection angle 360 / 120 degrees
- Selectable detection area: 3 m / 6 m
- Light on time setting: 5s, 30s, 1 min., 3 min., 5 min., 8 min.
- Adjustment of the in-built light sensor 10 lux / 2000 lux
- Miniature design of the device facilitates its installation in different places
- Hermetic probe on the cable can be used to adapt the device to different applications.

TECHNICAL DATA

Power supply voltage:	230 V AC
Voltage frequency:	50 Hz
Motion detection angle:	120 / 360 degrees
Maximum effective zone:	3 lub 6 m (selectable)
Time to turn on the lighting:	5s, 30s, 1 min, 3 min, 5 min, 8 min
Time measurement accuracy:	± 15 % of the selected value
Scope of light sensor settings:	10 ÷ 2000 lux
Acceptable load:	Traditional bulbs: 800 W Fluorescent tubes: 200 W LEDs: 15 W
Power consumption:	<0,5W
Installation height:	2 ÷ 4 m
Operating temperature:	-20 ÷ + 40 °C
Permissible humidity:	< 93% RH
Dimensions:	55,5 x 55,5 mm
Weight:	0,4 kg

APPEARANCE

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.



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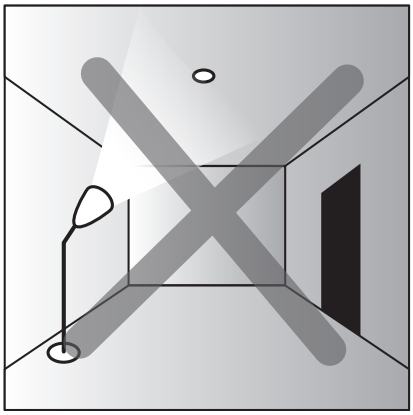
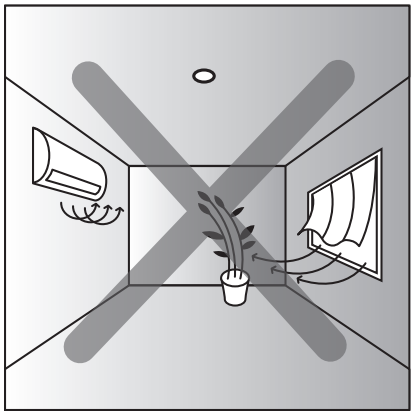
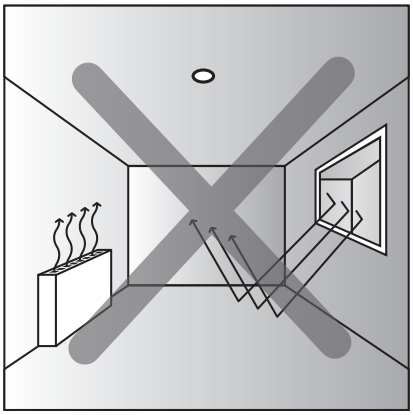
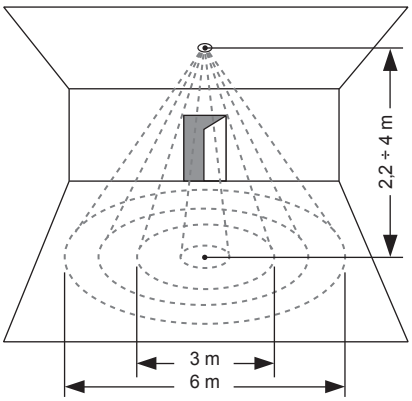
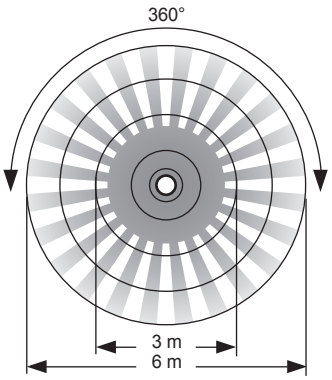






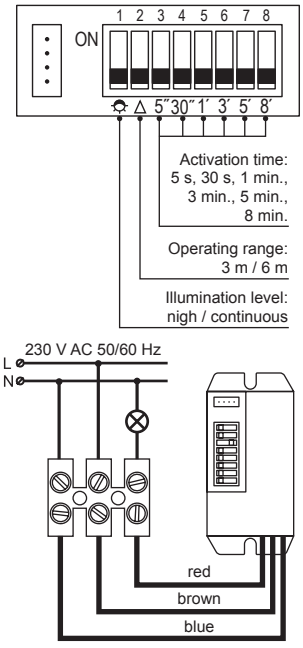
- Since the device analyzes changes in infrared radiation caused by thermal changes occurring in the monitored area to detect motion, it should not be installed:
  - opposite light-reflecting surfaces, such as mirrors,
  - in the vicinity of heat sources, such as radiators, fireplaces, air conditioners, high-power lamps, etc.,
  - in the vicinity of objects which can be moved by gusts of wind, such as curtains, tall plants, bushes, etc.
- The device should be installed at ca. 2÷4 m from the ground. Then, the monitored area will be ca. 3 or 6 m in diameter.



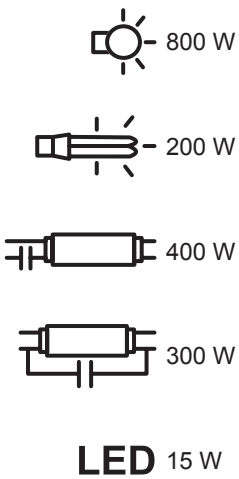


INSTALLATION & CONNECTION

1. Select the device installation site.
2. Disconnect the power supply circuit with a fuse, circuit breaker or switch disconnector connected to an appropriate circuit.
3. Check the de-energized condition on the power supply cables by means of the appropriate instrument.
4. Install the device in its ultimate position. Use the installation holes on the sides of the device for fixing it.
5. Adjust the device using the following switches:
   P1: Light intensity, at which motion will be detected. When the switch is moved to its upper position, the device will be started at night. When the switch is moved down - the device will operate continuously, regardless of the light intensity.
   P2: Sensor effective range selection The sensor can detect within the range of ca. 3 m (lower position) or ca. 6 m (upper position).
   P3-P8:Light up time selection. The time, in which light will go on is selected by moving the respective switch, e.g. move the switch to the symbol “5” to set a 5-second light up time.
6. Connect the cables in line with the connection diagram.
7. Connect the sensor included in the set.
8. Specify the supply voltage. The device automatically adapts to the operating conditions. The device will be ready to work after about 30-40 seconds.



RELAY CAPACITY



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