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MICROWAVE MOTION SENSOR

DRM-08

WARRANTY. The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us. More information how to make a compliant can be found on the website: www.fif.com.pl/reklamacje

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Do not dispose of this device in the trash along with other waste! According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.

Purpose

The motion sensor is designed for automatic, scheduled lighting activation if a person or other object appears in places such as corridors, courtyards, approaches and driveways, garages, etc.

The specific of operation allows to use the DRM-08 as a presence sensor.

The sensor allows to detect movement through wooden boards, plasterboard panels, glass and plastics.

Functioning

The DRM sensor emits and receives 5.8 GHz high frequency electromagnetic waves. The sensor detects changes in wave reflection caused by the movement of the object in the detection area. The sensor detects movement of the object to and from the sensor. Movement in the detection area automatically switches on the lighting. From the moment of switching on, continuous movement causes the lighting to stay on permanently. Only lack of movement in the detection area triggers the lighting back-up time. Another movement in the detection area and its disappearance during the countdown will start the back-up time from the beginning. The nature of the operation allows the DRM to be used as presence sensor.

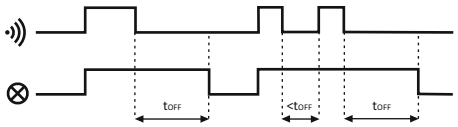
After the preset time, the lighting will be switched off automatically. The motion sensor is equipped with a twilight sensor that prevents the controlled lighting from being switched on during the day. The detection status and the readiness to switch on the lights are activated only after dark. Activation time of the sensor can be adjusted by the user through a potentiometer. In addition, it is possible to adjust the detection area in the radius range of 1÷8 m (for h=2÷6 m) and to adjust the time of the receiver in the range of 10sec÷12min. The motion sensor can work indoors. The sensor allows to detect movement through wooden boards, plasterboard panels, glass and plastics. Temperature changes do not affect motion detection.

WARNING!

The power of microwave radiation is relatively low and is completely safe for humans and animals. Its value is less than 0.2 mW.

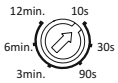
By comparison, microwaves and cell phones radiate about 1000mW of power (100 times harder).

Diagram



Settings

Actuation time (TIME)



TIME

Receiver's actuation time can be adjusted between 8 sec for 12 min. Rotate knob to the right increases ON time, rotate left reduces the attached time.

Detection range (SENS)

SENS

Radius of the sensor detection can be adjusted in the range from 1 m to 8 m (the parameters for the sensor mounted at a height 1÷6 m). Rotate the knob to the right [+] increases the area of a field of detection, rotate left [–] reduces the area of the field detection.

Sensitivity of light dependant relay (LUX)

LUX

Sensitivity of light dependant relay can be adjusted in range from 3Lx to 2000Lx. Rotate the knob to „3" - attached later; rotation to the „sun" sign - attached earlier.

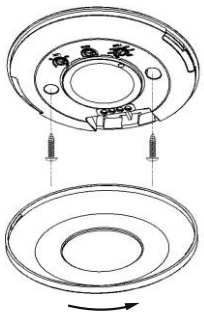
In order to sensor was active throughout the day, set the knob maximally toward the „sun".

Assembly

1. Twist the sensor outer casing off by hand.
2. Disconnect the power supply.
3. Put the wires through the rubber cable bush in chassis of the sensor.
4. Fix the base to the ground.
5. Connect according to the diagram.

   WARNING!

   DRM is inactive for the first 10 seconds after powering up.
6. Set the detection area, sensitivity of the twilight switch and the switch-on time.
7. Assemble the outer casing of the sensor.



Wiring diagram

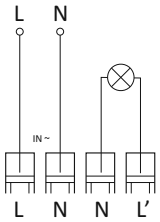


Table of power

incandescent	halogen	fluorescent	energy-saving	LED
2000W	2000W	300W	300W	300W

Technical data

power supply	230V AC
current load	<10A
microwave radiation frequency	5.8GHz
power radiation	<10mW
motion detection	0.6÷1.5m/sec
detection area	360°
detection radius - adjustable (for h=1÷6m)	1÷8m
activation threshold - adjustable	3÷2000Lx
switch-on time of receiver - adjustable	10±3sec÷12±1min
activation delay	<1sec
power consumption	0.9W
terminal	1mm² screw terminals
working temperature	-25÷50°C
dimensions	Ø115 h=24mm
mounting	two screws to substrate
protection level	IP20