



F&F Filipowski sp. j.  
Konstantynowska 79/81 95-200 Pabianice  
tel/fax (+48 42) 215 23 83; 227 09 71 POLAND  
http://www.fif.com.pl e-mail: biuro@fif.com.pl

CEILING LAMP  
with microwave motion sensor

DRM-06

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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**

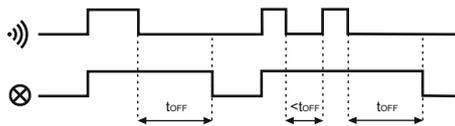
Ceiling lamp with built-in motion sensor is used for automatic and time switching of lighting when a person or other object appears in places such as corridors, courtyards, driveways, garages, etc.

**Functioning**

The sensor emits and receives 5.8 GHz high frequency electromagnetic waves. High-frequency waves penetrate the lampshade of the ceiling lamp and allow for motion detection. The sensor detects changes in the reflected waves caused by movement of the object in the detection area. The sensor detects the movement of an object towards and from the sensor. Movement in the detection area will automatically switch on the lighting. The lighting is permanently switched on if the sensor detects continuous movement. Only the lack of movement in the detection area triggers a back-up lighting time. Another motion in the detection area and its disappearance during the countdown will trigger the back-up time from the beginning.

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**Diagram**



**Technical data**

|   |                                    |
|---|------------------------------------|
| power supply                            | 230V AC                            |
| light source                            | 160xLED                            |
| light color                             | 6000K                              |
| luminous flux                           | 970Lm                              |
| LED electric power                      | 10W                                |
| frequency of the microwave radiation    | 5,8GHz                             |
| radiation power                         | <0,2mW                             |
| detection area                          | 360°                               |
| detection ray - adjustable              | 1÷8m                               |
| activation threshold - adjustable       | 2÷2000Lx                           |
| receiver's activation time - adjustable | 5sec÷15min                         |
| activation delay                        | <1s                                |
| power consumption                       | 0,9W                               |
| terminal                                | 1.5mm <sup>2</sup> screw terminals |
| working temperature                     | -25÷50°C                           |
| dimensions                              | ∅260 h=90mm                        |
| mounting                                | 3 fastening screws to the ground   |
| lampshade                               | HDPE (polyethylene), milky white   |
| protection level                        | IP40                               |

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After a preset time the lighting will be switched off automatically. The motion sensor is equipped with a twilight switch that prevents the switching of the controlled lighting during the day. Detection status and readiness for switching of the lighting are activated only after dusk. The activation time of the sensor can be adjusted by the user via potentiometer. In addition, it is possible to adjust the detection area in 1÷8 m radius (for h=2.5 m) and to adjust switch-on time of the receiver in the range of 5 sec÷15 min.

**Please note!**

The power of microwave radiation is relatively low and is completely safe for humans and animals. Its value is less than 10 mW. For comparison, microwave oven and mobile phone radiate with the power of approx. 1000 mW (100 times more).

**Settings**

The detection area (coverage)

Radius of the sensor detection can be adjusted in a range of 1 m to 8 m (parameters specified for the sensor mounted at a height of 2.5 m). Turning the knob to the right [max] increases the detection area, turning it left [min] reduces the detection area.

Switch-on time

The switch-on time of the receiver can be adjusted in the range of 5 sec to 15 minutes. Turning the knob to the right [max] increases the switch-on time, turning it left [min] reduces the switch-on time.

The sensitivity of the twilight switch

The sensitivity of twilight switch can be adjusted in the range of 2 lx to 2000 lx. Turning it in the direction of "moon" will activate later, turning it in the direction of "sun" - will activate earlier.

For the sensor to be active throughout the whole day the knob should be set up in the direction of the "sun".

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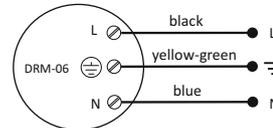
**Assembly**

1. Disconnect the power supply.
2. Remove the lampshade and fix the ceiling lamp cover to the base.
3. Connect the power supply wires according to the scheme.

**Warning!**

- DRM is inactive for the first 10÷30 seconds after powering up.**
4. Set the detection area, sensitivity of the twilight switch and the switch-on time.
  5. Replace the cover.

**Wiring diagram**



D170119

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