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MOTION SENSOR
(PIR)

DR-04

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 complaint can be found on the website: www.ff.com.pl/reklamacje



Do not dispose of this device to a garbage bin with other unsorted waste!

In accordance with the Waste Electrical and Electronic Equipment Act any household electro-waste can be turned in free of charge and in any quantity to a collection point established for this purpose, as well as to the store in the event of purchasing new equipment (as per the old for new rule, regardless of brand). Electro-waste thrown in the garbage bin or abandoned in the bosom of 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.

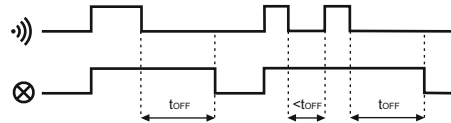


- 1 -

Operation

The sensor detects infrared radiation. It analyzes parameters such as: size of the object, the amount of emitted heat and the speed of movement between sectors of detection. Motion in the detection field will automatically switch on the lighting. From this moment the light will stay on, as long as the sensor detects continuous movement. Only the lack of movement in the detection area triggers the lighting support time. If the motion reappears in the detection field and disappears during the support time, it will trigger the sustaining time from the beginning. Nature of operation allows for using the DR-04 as a presence sensor. The motion sensor is equipped with a twilight sensor that prevents activation of the controlled lighting during the day. Detection status and readiness for switching the lighting are activated only after sunset. The activation time of the sensor can be adjusted by the user with potentiometer. Additionally, you can adjust the time period of the receiver switching in the range of 10 s÷15 min. Temperature changes can affect motion detection.

Diagram



- 2 -

Settings

The detection area range

No regulation. Detection range of the sensor is fixed to 12 m (parameters specified for the sensor mounted at a height of 1.8÷2.5 m).

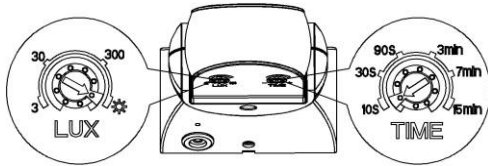
Switch-on time

TIME The time of the receiver switch-on can be adjusted within the range of 10 s to 15 min. Turning the control knob right [+] increases the switching-on time, turning left [-] reduces the switching-on time.

The sensitivity of twilight sensor

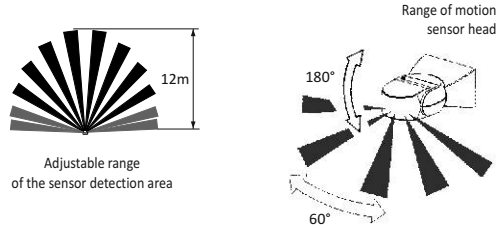
LUX The sensitivity of twilight sensor can be adjusted within the range of 3 Lx to 2000 Lx. Turning the control knob in the direction of the value 3 (min.) will switch the light later, turning in the direction of 2000 (max.) - will switch the light earlier.

For the sensor to be active throughout the day, the control knob should be maximally turned in the direction of "sun".

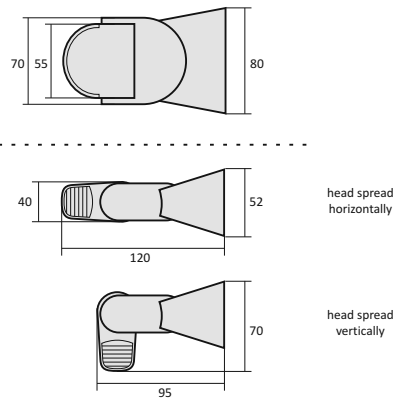


- 3 -

Area of detection (ceiling mounting)



Dimensions



- 4 -

Specifications

power supply	230V AC
load contact	5A
twilight activation threshold	3÷2000Lx
motion detection	0.6÷1.5m/s
switch-off time	10s±3s ÷ 15min.±2min.
area of vertical detection	180°
area of horizontal detection	45°
detection range (for <24°C)	<12m
range of head rotation - horizontal / vertical	60° / 180°
sensor mounting height	1.8÷2.5m
power consumption	0.5W
terminal	1.5mm ² screw terminals
working temperature	-20÷40°C
dimensions (head spread horizontally)	S80×W52×G120mm
dimensions (head spread vertically)	S80×W52×G95mm
mounting	two screw to the base
ingress protection	IP65

Table of power

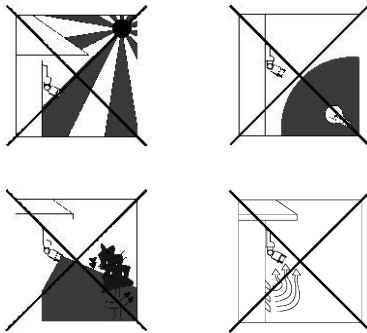
incandescent	halogen	fluorescent	energy-saving	LED
1200W	600W	300W	150W	150W

These data are indicative and will largely depend on the design of the particular receiver (particularly for LED bulbs, energy saving lamps, electronic transformers and pulse power supplies), the number of switching and working conditions. For more information visit: fif.com.pl.

Note!

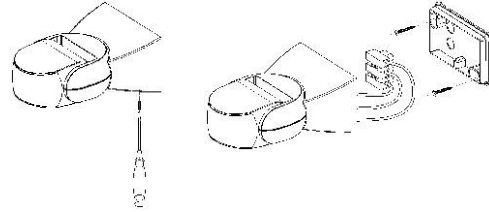
The motion sensor can operate indoors and outdoors in places where it is not directly exposed to rain or snow and to splashing the sensor housing and its electric connection points with water or other liquid.

Avoid places with large objects in the detection area, for example trees that can be moved by the wind. Do not mount the sensor in close proximity to heating, air conditioning and lighting.



Installation

1. Disconnect the power supply.
2. Open the cover of the junction box.
3. Put the connection wires through the rubber cable bush on the back of the sensor.
4. Connect according to the diagram.
5. Attach the sensor on the wall with two screws.
6. Set the head of the sensor to the desired detection area.
7. Set the sensitivity of the twilight sensor and time of switching.
8. Connect the power supply.



Note!

After powering the sensor is inactive for the first 30 seconds. During this time the PIR system is warming up.

Note!

If the sensor is installed too close to the switched light source, the system can activate, for example the sensor will automatically switch the light source on and off. The sensor should be removed from the switched light source at an appropriate distance.

Wiring diagram

