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MOTION SENSOR
(PIR)

DR-03

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

5 190831 259869

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.

Functioning

The sensor detects the infrared radiation sources. It analyzes the parameters such as the size of the object, the amount of heat emitted and the speed of movement between sectors of detection. Movement in the detection area 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. Another movement in the detection area and its subsequent disappearance during the measured time resets the support time to the beginning.

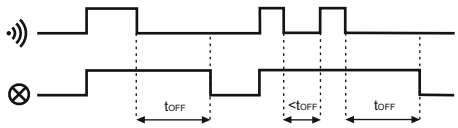
The specific of operation allows to use the DR-03 as a presence sensor.

The motion sensor is equipped with a twilight sensor to prevent switching the lighting on during the day. Detection status and standby to switch on the lighting are activated only after dark. The activation time of the sensor can be. In addition, user can adjust the switching time of the receiver within a range of 10 sec to 7 min.

Changes in temperature can affect the motion detection.

The motion sensor can work indoors and outdoors in places not directly exposed to rain or snow and where there is no risk of splashing the sensor casing and its electrical terminals with water or other liquid.

Diagram



Note!

The minimum sensor distance from the light source is 60 cm.
If the motion sensor is installed too close to the light source it switches, the system may activate, i.e. the sensor will spontaneously turn the light source on and off. It is necessary to move the sensor to an appropriate distance away from the light source it activates.

Settings

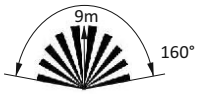
Switch-on time

The time of the receiver switch-on can be adjusted within the range of 3 sec to 7 min. Turning the control knob right [+] increases the switching-on time, turning left [-] reduces the switching-on time.

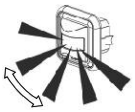
The sensitivity of twilight sensor

The sensitivity of twilight sensor can be adjusted within the range of 3Lx do 2000Lx. Turning the control knob in the direction of the value "moon" - will switch the light later, turning in the direction "sun" - will switch earlier. For the sensor to be active throughout the day, the control knob should be maximally turned in the direction of "sun".

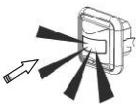
Detection area



Motion direction in detection area



Sensibility good

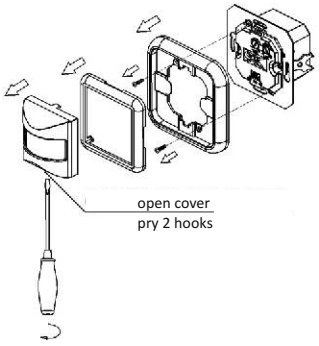


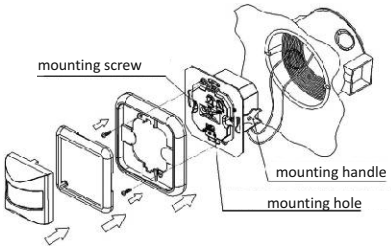
Sensibility bad

Assembly

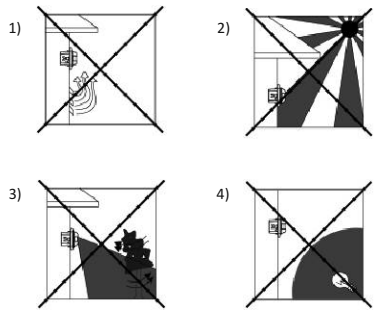
1. Disconnect the power supply.
2. Make the mounting hole in the base / fix flush-mounted box (Ø60).
3. Pry hooks and remove the outer casing of the sensor.
4. Connect according to the diagram.
5. Place the body in the mounting hole / flush-mounted box and tighten the mounting screws.
6. Set the sensitivity of the twilight sensor and time of switching.
7. Assemble the outer casing of the sensor.
8. Connect the power supply.

Unmounting/mounting of device



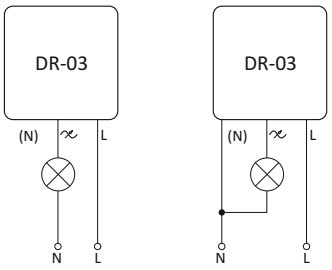


Note!

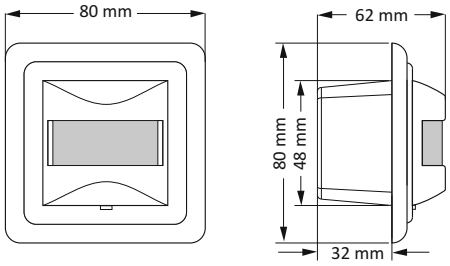


1) Do not mount near the outlet of the air conditioner or other heat sources.
2) Do not mount in direct sunlight area.
3) Do not mount near the moving objects.
4) Do not mount near the light source (min. distance 60 cm).

Wiring diagram



Dimensions



Technical data

power supply	230V AC
current load	<3A
twilight activation threshold	3÷2000Lx
motion of detection	0.6÷1.5m/sec
switch-off time	10sec±3sec ÷ 7min.±2min.
vertical detection field	160°
maximum radius detection (T<24°C)	9m
sensor height installation	h=1.0÷1.8m
power consumption	0.5W
terminal	1.0mm² screw terminals
working temperature	-10÷40°C
dimensions	
external	80×80×62mm
groove	Ø=60mm, depth=32mm
mounting hole	Ø=60mm
screw spacing	58mm
mounting	two screws to substrate in flush mounted Ø60
protection level	IP20

Table of power

incandescent	halogen	fluorescent	energy-saving	LED
500W	500W	100W	100W	100W

The above data are indicative and will heavily depend on the design of a specific receiver (that is especially important for LED bulbs, energy-saving lamps, electronic transformers and pulse power supply units), switching frequency and operating conditions.
For more information visit: www.fif.com.pl.

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