Dual mount motion and occupancy sensor
User manual

Thank you for choosing the dual mount motion and occupancy sensor. Z-Wave certified, the device is compatible with the gateways of the MyVirtuoso Home home automation system.

www.myvirtuosohome.com
www.smartdhome.com

SmartDHOME

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General Safety Rules

Before using this device, certain precautions must be taken to reduce any risk of fire and / or personal injury:

1. Read all instructions carefully and follow all precautions contained in this manual. All direct connections to the mains conductors must be made by trained and authorized technical personnel.

2. Pay attention to all possible danger indications reported on the device and / or contained in this manual, highlighted with the symbol ⚠.

3. Disconnect the device from the power supply or battery charger before cleaning it. For cleaning, do not use detergents but only a damp cloth.

4. Do not use the device in gas saturated environments.

5. Do not place the device near heat sources.

6. Use only the original EcoDHOME accessories supplied by SmartDHOME.

7. Do not place the connection and / or power cables under heavy objects, avoid paths near sharp or abrasive objects, prevent them from being walked on.

8. Keep out of the reach of children.

9. Do not carry out any maintenance on the device but always contact the assistance network.

10. Contact the service network if one or more of the following conditions occur on the product and / or an accessory (supplied or optional):

    a. If the product has come into contact with water or liquid substances.

    b. If the product has suffered obvious damage to the container.

    c. If the product does not provide performance conforming to its characteristics.

    d. If the product has undergone a noticeable degradation in performance.

    e. If the power cord has been damaged.

Note: Under one or more of these conditions, do not attempt to make any repairs or adjustments not described in this manual. Improper interventions could damage the product, force additional work to regain the desired operation and exclude the product from the warranty.

ATTENTION! Any type of intervention by our technicians, which will be caused by improperly performed installation or by a failure caused by improper use, will be charged to the customer.

Provision for Waste Electrical and Electronic Equipment. (Applicable in the European Union and in other European countries with the separate collection system).

This symbol found on the product or its packaging indicates that this product must not be treated as common household waste. All products marked with this symbol must be disposed of through appropriate collection centers. Improper disposal could have negative consequences for the environment and for the safety of human health. Recycling of materials helps to conserve natural resources. For more information, contact the Civic Office in your area, the waste collection service or the center where you purchased the product.

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Disclaimer

SmartDHOME Srl cannot guarantee that the information regarding the technical characteristics of the devices in this document are correct. The product and its accessories are subject to constant checks aimed at improving them through careful analysis and research and development activities. We reserve the right to modify components, accessories, technical data sheets and related product documentation at any time, without notice.
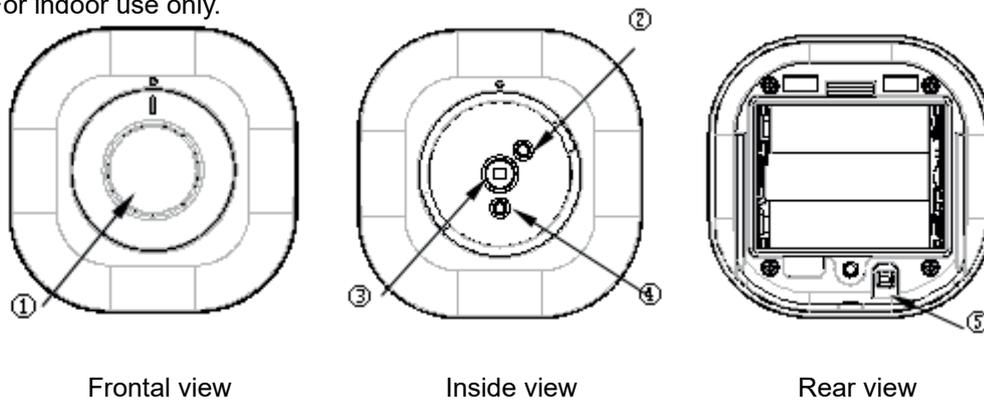
On the website www.myvirtuosohome.com the documentation will always be updated.

Description

The motion sensor detects movement in the area in which it has been located and sends the related alarm to MyVirtuoso Home gateway.

For indoor use only.

Frontal view   Inside view   Rear view

1   Lens cover (wall-lens cover and ceiling-lens cover)
2   Photocell sensor
3   PIR sensor
4   Two-Color indication LED (red & green)
5   Inclusion/exclusion button

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Specification

Power supply	1.5V AA batteries x3
Protocol	Z-Wave
Frequency	868,4 Mhz
Degree of protection	IP44
PIR detection coverage:	up to 10 m x 110° (at 1.8 m mounting height & 25°C); up to 5 m x 360° (at 2.8 m mounting height & 25°C).
Operating range	30 m in campo aperto
Dimensions	90 x 90 x 37 mm

Package content

- Sensore di movimento.
- Lens cover (wall-lens cover and ceiling-lens cover).
- User manual.

Inclusione

Before starting the procedure for including the device in a Z-Wave network, check that it is turned on, then make sure that the MyVirtuoso Home HUB is in inclusion mode (refer to the relevant manual available on the website www.myvirtuosohome.com/downloads).

1) Press the pairing button 3 consecutive times within 1.5 seconds. The sensor will emit a "beep" when the button is pressed.

Note: For the operation to be successful, during the inclusion / exclusion phase the device must remain within a radius of no more than 1 meter from the MyVirtuoso Home HUB.

Esclusione

Before starting the procedure for exclusion, the device in a Z-Wave network, check that it is turned on, then make sure that the MyVirtuoso Home HUB is in inclusion mode (refer to the relevant manual available on the website www.myvirtuosohome.com/downloads).

1) Press the pairing button 3 consecutive times within 1.5 seconds. The sensor will emit a "beep" when the button is pressed.

Note: For the operation to be successful, during the inclusion / exclusion phase the device must remain within
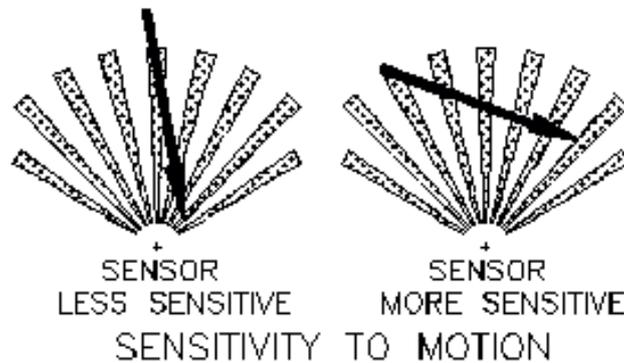
a radius of no more than 1 meter from the MyVirtuoso Home HUB.

Assembly

The Motion sensor can be mounted either on a wall or on a ceiling.   Before selecting a position for Motion sensor, the following points should be noted:

1) Do not position the detector facing a window/fan/air-conditioner or direct sunlight.

2) Do not position the detector directly above or facing any source of heat, e.g. fires, radiators, boiler etc.

3) Ensure the detector is positioned in place where the light source detected by the sensor is consistent with actual ambient illumination. Do not locate the detector in a shadowy place.

4) Where possible, mount the detector so that the logical path of an intruder would cut across the fan pattern rather than directly towards the detector (FIGURE 1).

SENSOR
LESS SENSITIVE

SENSOR
MORE SENSITIVE

SENSITIVITY TO MOTION

FIGURE 1

5) For best results, locate the detector directly facing the entrance.

Then proceed with **assembly**.

1) Undo and remove the screw from the bottom edge of the detector to detach the rear cover (FIGURE 2).

2) Unscrew the screw from the battery cover and remove the battery cover.

FIGURE 2

3) Insert 3 AA-size 1.5V alkaline batteries into the battery compartment, ensuring correct polarity is followed (FIGURE 3).
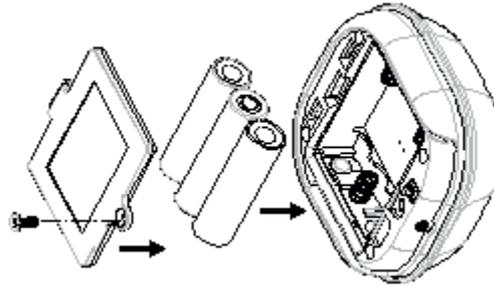

FIGURE 3

4) Decide if the detector is to be wall-mounted (FIGURE 4a) or ceiling-mounted (FIGURE 5a), based on the coverage angles shown in FIGURE 4b and FIGURE 5b. Hold the rear cover in position and mark the two mounting holes. Drill the holes, insert the plastic rawl plugs and screw the rear cover to the wall or ceiling using the screws provided.
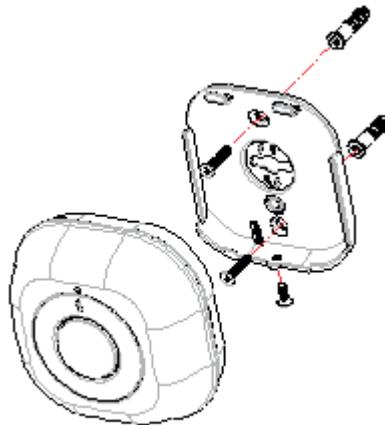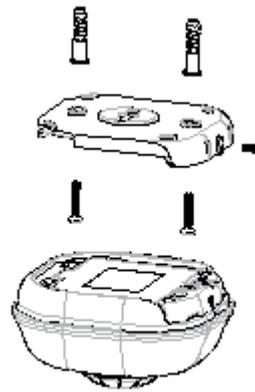

FIGURE 4A   **FIGURE 5A**

5) Fit the detector onto the rear cover firmly.

Wall mounting

The recommended position for wall mounting is at a height of 1.8m (5.91 ft) from the floor.   At this height, the optimum detection range is up to 10m (32.81 ft) with coverage range of 110 degrees (FIGURE 4b).
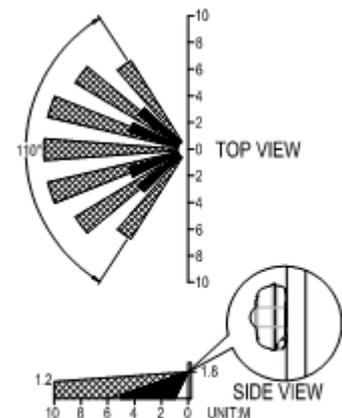

FIGURE 4b

Ceiling mounting

The recommended position for ceiling mounting is at a height of 2.8m (9.19ft) from the floor.   At this height, the optimum detection range is up to 5m (16.41ft) with coverage range of 360 degrees (FIGURE 5b).
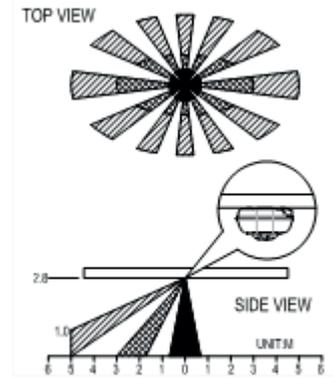

FIGURE 5b

Settings

Coverage range adjustments

Two types of lens cover are provided for the detector.   Wall-lens cover (FIGURE 6a) is to be used when the detector is wall-mounted. Ceiling-lens cover (FIGURE 6b) is to be used when the detector is ceiling-mounted.   The coverage range adjustment is only applicable to ceiling-lens cover; choose correct lens cover before mounting.

The shading cap is comprised of 12 segments for limiting the detection coverage, and each segment covers a detection angle of 30 degrees (FIGURE 6c).   Follow the grooves on the cap, cut the cap to a suitable size and place it onto the ceiling-lens cover (FIGURE 6d).   The remaining segments are used for blanking off a detection area not required.
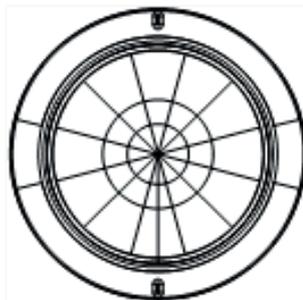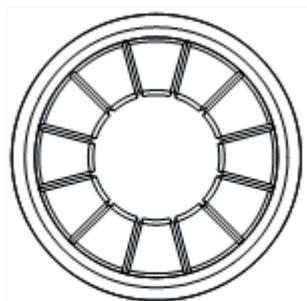

FIGURE 6A

FIGURE 6b

FIGURE 6C

FIGURE 6D

Simply turn the cover anticlockwise to remove the wall-lens cover from the detector (FIGURE 6e).
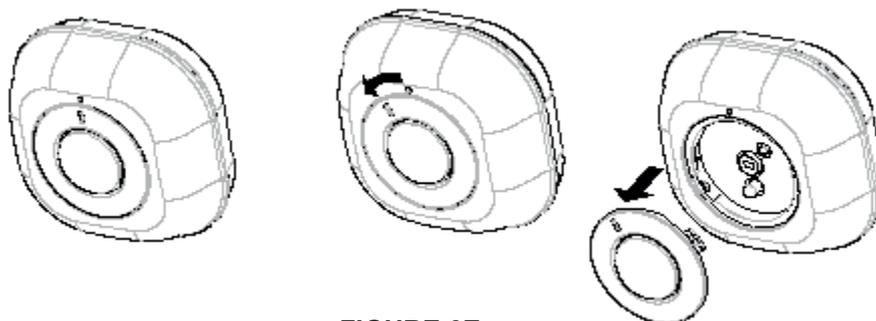

FIGURE 6E

Once the wall-lens cover is removed, re-fit the detector with ceiling-lens cover and turn it clockwise, ensure the mark on the cover is pointing towards and aligned with the mark on the detector (FIGURE 6f).
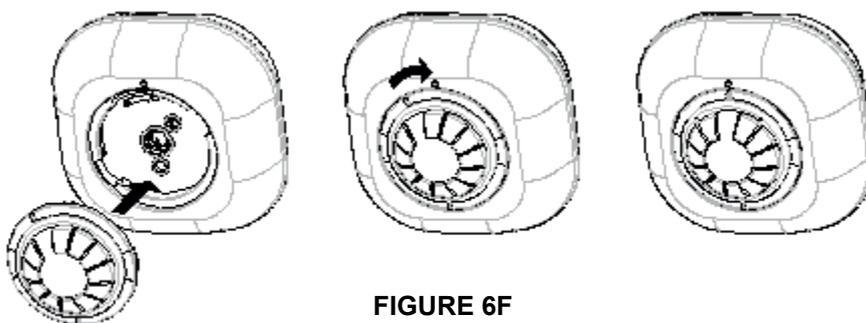

FIGURE 6F

Note: to detect movements with detection coverage up to 360 degrees, simply fit the ceiling-lens cover without shading cap. No movements can be detected if the detector is fitted with a shading cap which retains 12 lens segments.

Warm-up

It will take approximately 2 minutes to warm up after battery has been connected. During this period, the detector beeps once every 3 seconds. When a long beep is sounded, with the red LED turned on steadily for 5 seconds, warm-up procedure is completed and the detector is ready for operation.

Troubleshooting

Problem	Cause of failure	Recommendation
LED cannot be displayed.	1. Run out of battery power. 2. Wrong battery polarity.	1. Replace with a new battery. 2. Refit the battery with correct polarity.
The detector is not working.	1. Check if mounting location is correct. 2. Check if the detector is out of order.	1. Reposition its mounting location. 2. Remove the source of interference.

		3. Do not open the detector, contact supplier.
The detector does not stay awake for 10 minutes.	Check if detector is out of order.	Please make sure button is pressed 3 times within 1.5 sec. If detector still fails to stay awake for 10 seconds, repeat this step until it is successful.

Disposal

Do not dispose of electrical appliances in mixed urban waste, use separate collection services. Contact the local council for information about available collection systems. If electrical appliances are disposed of in landfills or in inappropriate places, hazardous substances can escape into groundwater and enter the food chain, damaging health and well-being. When replacing old appliances with new ones, the retailer is legally obliged to accept the old appliance for free disposal.

Warranty and customer support

Visit our website: **http://www.ecodhome.com/acquista/garanzia-eriparazioni.html**

If you encounter technical problems or malfunctions, visit the site:
http://helpdesk.smartdhome.com/users/register.aspx

After a short registration you can open a ticket online, also attaching images. One of our technicians will answer you as soon as possible.