Globo

Installation manual

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MANUAL PRINTING

INTRO

Globo is an i**ndoor wireless volumetric detector**. The battery is pre-installed, has a life of up to 5 years, and is equipped with a **PIR detector** that can **detect the presence of intruders within 12 meters**. Features, **Fresnel lens 9 horizontal beams** with coverage up to 90 and **4 vertical beams**. Easy-fix mounting support for easy installation.

OPERATION

Globe works within the **D'AVINCI system** with a range of up to 1500 meters (in free space) by connecting, via radio, directly to the **Lisa control panel** or via **Automa repeater.** The communication is **birectidional** (transmission/reception) with the indication of confirmation of receipt and command. In the case of obstacles such as walls, objects, etc. the range is reduced.

The **communication protoco**l, like the connections between all the components of the system, is the **GENIO**, encrypted and protected from interception.
The sensor configuration is via **D'AVINCI app** downloadable free of charge from IOS and Android.

Antimask active on IR for lens contact blinding.
Configuration of the **IR sensitivity on three levels**, warning LEDs for alarm.
The detector operates on **two frequencies in the 868 MHz band**, **automatically** and **dynamically** positioned on the one that is **free** or less **interfered**

.The detector is able to discriminate the presence of domestic animals weighing no more than 20 kg and not taller than 50 cm.

It has an optional joint for ceiling or wall installation.

DEVICE CONFIGURATION IN THE D'AVINCI SYSTEM

Warning. **Before adding the device:**

- **Install the D'AVINCI** app, available for iOS/Android, on your smartphone.
- **Create an account.** Add a **D'AVINCI** Control Panel, save the necessary settings and create at least one **Room**
- Make sure the Control Panel is on and has internet access via Ethernet cable.
- Make sure the **Control Panel is off** and not running updates by checking its status via the mobile application.

To add a device to the control panel, in the D'AVINCI app[1]

1. Select the Tab **Device** [2]

2. Click on **Add Device**

3. Assign a **name** to the device

4. Insert the device **serial number** on the label or click on the **icon** to acquire the code via app.

5. Select the **Room** associated for the device.

6. Click on **Add** – a countdown will start

7. Remove the tab from the battery, so as to **Power** the device (see installation phase of the device).The detector led will emit a flashing light when it is switched on.When paired with the control panel, the detector will appear in the list of devices in the D'AVINCI App.

Then it will be necessary to close the tamper, placing it on its bracket , this to allow you to carry out the calibration phase, with the flashing red LED for about a minute. When the warning lamp is switched off, the device is ready to detect movements and transmit them to the control panel.

The connection request to the Control Panel is transmitted for a short period of time as soon as the device is switched on.

If the connection to the D'AVINCI control panel fails, turn off the detector for 5 seconds and repeat the procedure.

[1] *Installer privileges are required*

[2]*The device must be located within the radio communication zone of the associated Control Panel in order to start the configuration procedure.*

DETECTOR INSTALLATION

Make sure you have selected the **ideal installation location** according to the guidelines in this manual.
The location of the sensor **affects the connection to the Control Panel** and any obstacles between the devices may block the transmission of the radio signal. Such obstacles can be walls, floors or large objects within a room.

To install the detector

Fix the bracket to the wall using the screws supplied.

Remove the battery tab

Fix the detector to the holder.

Selecting the Detector Installation Location

The total size of the protected area and, consequently, the efficiency of the safety system depend on the location of the detector.

The device is intended for installation in indoor spaces only.

The location of the **Globo** detector affects the connection to the Control Panel and any obstacles between the devices may block the transmission of the radio signal.
Such obstacles can be walls, floors or large objects within a room.

Check the signal level at the installation site.

If the signal level is low, the stable operation of the safety system is not guaranteed. Please take any measures to improve the quality of the signal! First, try to move the device: a move of only 20 cm can greatly improve the quality of the reception

If the device still has a low or unstable signal strength after moving, use a **radio signal repeater**.

It is recommended that the detector lenses be oriented perpendicular to the likely point of access to the room.

Ensure that there are no furniture, houseplants, vases, decorative or glass structures blocking the detector's field of view.

It is recommended to install the detector at a height of 2.4 meters.

If the detector is not installed at the recommended height, the motion detection area will be reduced.

Do not install the detector:
- In unprotected areas or premises (outdoors).
- Near metal objects or mirrors that may attenuate or block the radio signal.
- Next to other radio devices (gsm/wireless router/etc.) to avoid mutual interference
- In environments where temperature or humidity values may exceed the limits specified in the Technical Specifications.

OPERATING SETTINGS

The detector settings can be changed in the **D'AVINCI app** (Installer privileges are required):

1. Go to device tab
2. Select the device from the list.
3. Go to settings by clicking on the icon (gear)

DEVICE NAME
Detector name, displayed in the device list and as notification text. Can contain up to 24 characters.

ROOM
Selecting the virtual room to which the device is assigned the environment name appears in notifications.
Note: Changing this parameter requires Administrator privileges

METHOD OF ALARM
It shows how the detector reacts to alarms.

– **Instantaneous**: the detector, when the system is in place, immediately signals the alarm.

– **Delayed**: the detector, with the system inserted, signals the alarm after a time counter (see input/ output delay).

Input delay: 5 to 120 seconds.
Entry delay is the time that the user has to disconnect the system after entering the protected area.
Output delay: 5 to 120 seconds.
Exit delay is the time that the user has to leave the protected area after insertion.

– **Continued**: The detector adds input/output delays of devices that detected an alarm before it. When activated individually, it immediately triggers the alarm

STAY MODE ARMED

Pairing the detector to night mode. This type of insertion allows, for example, to insert the perimeter area and allows people to move freely in other areas.

- **Input delay in stay mode:** 5 to 120 seconds.
  Entry delay is the time that the user has to disconnect the system after entering the protected area.
- **Output delay in stay mode**: 5 to 120 seconds.
  Exit delay is the time that the user has to leave the protected area after insertion.

ALWAYS ACTIVE

If this option is enabled, the detector is always armed, detects the alarm condition and sends the signal to the Control Panel.

SENSITIVITY
Motion detector sensitivity level (infrared)
– High

-Normal

-Low

TIME OF INHIBITION

time interval when the sensor does not detect the alarm condition

– None

– 30 seconds

-1 min

-2 min

ENABLE MASK

Enables/disables the anti-masking sensor.

SOUND ON THE ALARM

It allows you to activate the siren in case of alarm signal, if the system is inserted.

SIREN ON WITH LID OPEN

It allows you to activate the siren in case the detector is in the tamper state (tamper anti-opening or anti-tampering open).

ACTIVE SIREN IN DISGUISE

Activates the siren in case of masking signal.

NUMBER OF ALARMS FOR SELF-EXCLUSION

Allows you to enter the number of alarms for the detector, during the same insertion, which cause the automatic exclusion of the detector. The detector will be automatically included the next time the system is inserted.

– Disabled

– 3 , 6, 9, 12 , 15.

WARNING LAMP

Enables the light indication for the alarm signal.

– only test operation

– always

REPEATER

Enables the connection of to the system through a repeater, eg Automa.

– Repeater number: indicates the number to which the detector is associated.

VERIFICATION OF RADIO CONNECTION

Allows you to enable the alarm in case of failure to communicate with the Central. If disabled, the report of failure to connect to the Central will be stored exclusively.

PING INTERVAL

Time interval, in seconds, between one survival transmission and the next in the absence of activation.
[12 600] seconds

NUMBER OF PING EXPECTED

Number of connection attempts before radio failure report
[1 15]

RADIO SIGNAL INTENSITY TEST

With this function, the device after pressing the START button processes a test where it will indicate the signal level , flashing n times depending on the result obtained.(1-4)

DETECTION TEST

With this function, the device after pressing the START button will enter the test mode, keeping the LED always on and each valid movement will turn off to indicate an alarm detection.

EXCLUDE

No: the device works normally and transmits all events/alarms.
Total: The device does not execute the sent commands. The system ignores the
device and its notifications.

Tamper Only: The system ignores notifications regarding activation of the device's tamper button (tamper).

REMOVE DEVICE

Dissociate the detector from the Control Panel, removing it from the app and deleting the device settings.

INTENSITY GENIO SIGNAL

The level of the radio signal **GENIO** is determined by the number of packets sent by the detector and the actual number of packets received by the associated control panel.

To display the signal strength select the card Devices **and the signal level field GENIO**

0 = No radio signal, no connection to control panel.

• = Poor radio signal, unstable connection with the Control Panel , operation of the detector not guaranteed.

• • = Low radio signal, low signal strength.

• • • = Good radio signal, good signal strength.

• • • • = Excellent radio signal, optimal signal strength.

Check the radio signal strength before the final installation of the device. In case of low or unstable signal it is recommended to use the Automa repeater.

DEVICES STATUS

The status shows information and parameters of operation of the device.

To view the status:

1. Access the D'AVINCI application

2. Select the Control Panel on which the detector is associated

3. Go to Devices tab

4. Select the detector

Icon	Description	Note
☑	Connection status	- Online: connection established with the control panel - Offline: connection error with the control panel
☑	Genio signal level	- 0 - 1 - 2 - 3 - 4
☑	Battery level	- 25 % - 50 % - 75 % - 100 %
☑	Tamper status	- Alarm - Regular
☑	Anti-masking status	- Regular: normal operation - Mask: masking device, anomaly
☑	Primary input status	- Alarm - Regular
☑	Sensitivity	- High – Average - Low
☑	Device exclusion status	- No - Entirely - Lid only
☑	Always active	- No - Yes
☑	Alarm Mode	- Instant - Delayed - Continued

☑	Arming in stay mode	- No - Yes
☑	Repeater use	- No - Yes (1-5)

REPLACING BATTERIES

Keep the detector housing clean by immediately removing dust, cobwebs and other impurities. Use a soft, dry **towel** for equipment maintenance.
To clean the detector, avoid the use of substances containing alcohol, acetone, gasoline or other active solvents.

The battery life of the detector depends on the quality of the battery, the frequency of activation of the detector and the ping interval between detector and Central.

If the battery of the detector is low, the user receives a **notification via D'AVINCI app**.

Open the battery compartment on the back of the sensor.

Remove the battery, replace it and close the cover.

WARNINGS AND MALFUNCTIONS

The function of indicating warnings and malfunctions is enabled in the device settings, selecting the field **Warning Light**

Indication	Event
RED LED flashes on	Alarm signals
RED LED 3 flashes (to Survival)	Missing radio link
RED LED flashes briefly every sec	Antimask initialization and calibration phase

A malfunction appears if:
- Detector is removed from installation location or detector housing is open (tamper anti-tampering active)
- There is no radio communication between the control panel and the detector
- Detector battery is low

TECHNICAL SPECIFICATIONS

Sensor type	IR detector
Detector capacity	2000 detections
Detector range	Up to 12 meters
Pet immune	- Weight: up to 20 kg - Height: up to 50 cm
Anti-sabotage protection	- antijammer - anti-tamper (anti-tear) - anti-opening tamper - anti-masking on lens
Radio communication protocol	Genio
Operating frequencies	868.20 Mhz 868.95 Mhz

RF signal power	13 dB
Modulation type	GFSK
Radio signal range	Up to 1500 m
Power supply	1 CR123A – 3V battery
Battery life	5 years
Installation	Indoor
Protection class	IP40
Operating temperatures	from -10°C to +40°C
Maximum humidity	Up to 75%
Dimensions	65x130x35 mm
Weight	85 g

CERTIFICATION

DOWNLOAD DECLARATION OF CONFORMITY

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