

English

intelbras

User manual

IVP 8000 LD



IVP 8000 LD

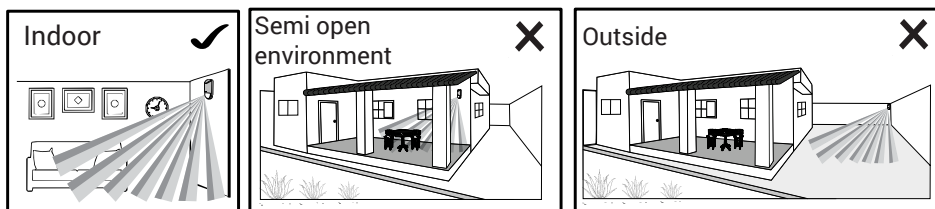
Passive infrared sensor

Congratulations, you have just purchased a product with Intelbras quality and safety.

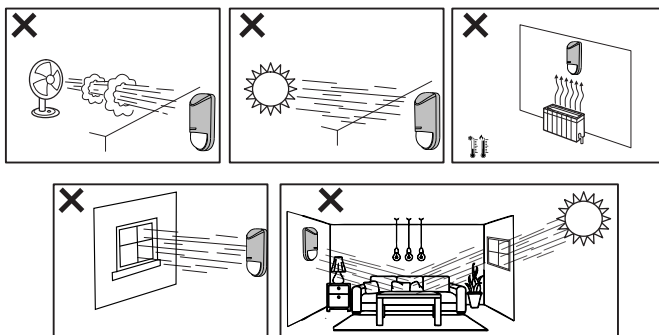
The IVP 8000 LD passive infrared motion sensor has an intelligent detection algorithm that, combined with automatic temperature compensation, prevents unwanted triggering. It allows for quick and simple configuration, remotely via software or app. Pet-proof, it allows installation in indoor environments with pets weighing up to 15 kg. Greater security against tampering through a front tamper switch and change of installation position with the digital tamper (accelerometer). Completely wireless system that facilitates and reduces installation costs.

Care and safety

- » Follow all instructions in the manual to assemble and install the product.
- » LGPD – Data processing by Intelbras: Intelbras does not access, transfer, capture or perform any type of processing of personal data from this product.
- » Attach the sensor to stable surfaces, where there are no vibrations;
- » This product is intended for INDOOR environments.

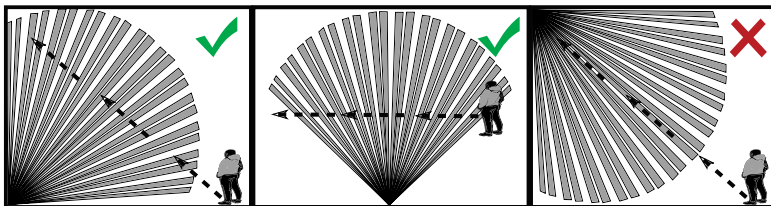


- » Do not touch the surface of the infrared (PIR) sensor. If necessary, use a soft, dry cloth to clean it.
- » Do not use the sensor in areas with sudden changes in temperature, such as near air conditioners, heaters, fans, refrigerators, and ovens. Do not expose the sensor to direct sunlight or to reflected sunlight.

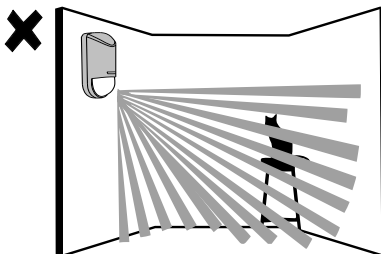


- » Do not place objects in front of the sensor. Keep the detection area free of moving objects, such as bushes, clotheslines or any object that blocks the sensor's detection.
- » Do not install the sensor facing windows and glass doors;
- » Do not install the sensor facing infrared sources, such as cameras.
- » The sensor must be installed on a flat, fixed and vibration-free surface, at a height between 2.0 and 2.80 meters. It is recommended to install the sensor parallel to the wall to ensure the greatest detection range.
- » Wireless communication technology, when exposed to environments with high-power radiation, may suffer interference and have its performance impaired. Example: locations near TV towers, AM/FM radio stations, amateur radio stations, routers, etc.;

- » For your safety, test the product and system at least once a week. This is necessary due to changes in environmental conditions, electrical or electronic interruptions and violations. Take all necessary precautions for the safety and protection of your property.

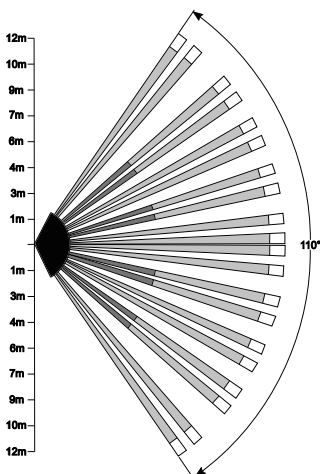


- » The *PET* function is intended for crawling animals weighing up to 15 kg. If the animal is on top of a bench, for example, the *PET* function may be disabled. The presence of more than one animal in the environment may compromise the efficiency of the *PET* function.

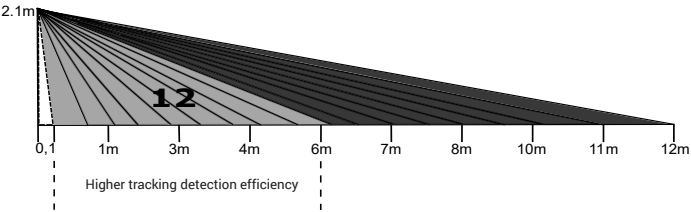
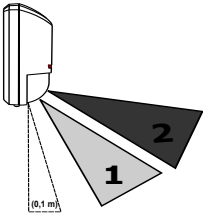
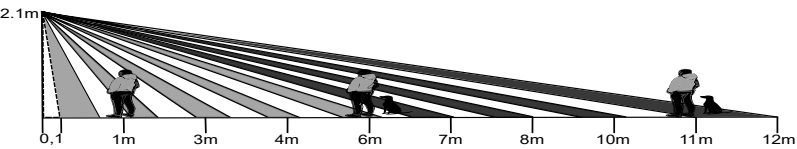


Note: if the sensor is installed at a height of less than 2 meters or is tilted downwards, the *Pet* function will be compromised.

Detection area (Top view)



Detection angle (Side view)



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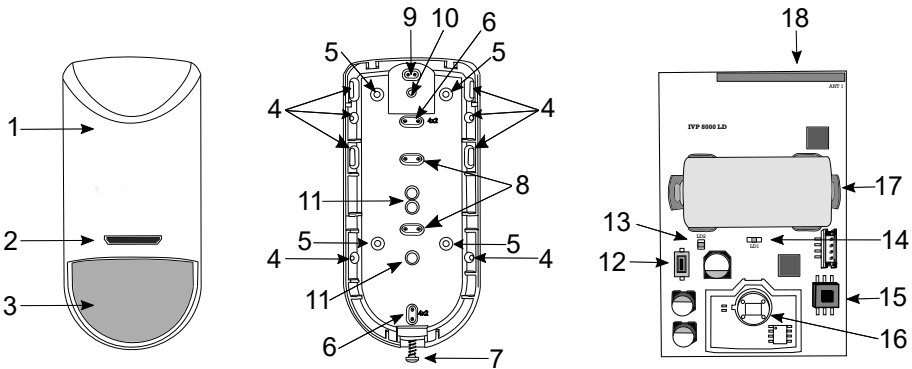
1. Technical specifications

Operating voltage	3 Vdc
Operating current	26 mA
Quiescent current	6uA
Frequency range	915 MHz to 928 MHz
Modulation	DSSS BPSK 40 Kbps
Maximum transmit power	11 dBm
Battery (CR123A)	Panasonic Industrial, Duracel High Power o GP Pro
Detection angle	110°
Motion detection range	12 meters
Recommended installation height	2.10 meters
Detection method	PIR
Pet immunity	Up to 15 kg
Maximum start-up time	60 seconds
Operating temperature	-10 °C ~ +50 °C
Wireless communication range	1000 meters without barrier
Dimensions (W × H × D)	58 × 123 × 44 mm
Weight	137 g

2. Features

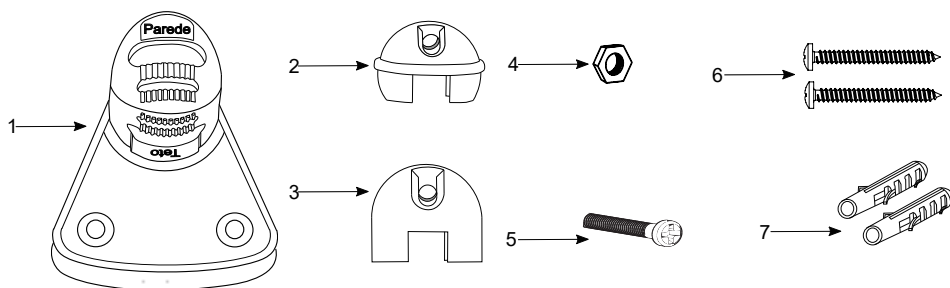
- » Automatic temperature compensation.
- » Intelligent algorithm that prevents false triggering;
- » Look down (crawling zone);
- » Front anti-tamper switch (tamper switch);
- » Position anti-tampering (accelerometer)
- » Communication status check via LED, keyboard and app;
- » Wireless communication with a range of up to 1000 meters with direct line of sight in open field;
- » Passive infrared with four elements
- » Supervised wireless communication;
- » Encrypted transmission;
- » Sensor configuration via apps;
- » Immunity to crawling animals weighing less than 15 kg;
- » Immunity to white light of up to 10,000 lux;
- » Ease of installation.

3. Product



1. Front cover
2. LED driver
3. Semi-spherical lens
4. Seals for corner installation
5. Seals for wall installation
6. Seals for installation in 4x2 box
7. Closing screw
8. Seals for wire passage or wall installation
9. Seal for wire passage
10. Seal for fixing the articulator
11. Drilling for installation of the XSA 1000 support or universal support
12. Synchronization button
13. Status LED
14. Blue LED
15. Tamper switch
16. Pyro sensor
17. Battery connector
18. Antenna

3.1. Support

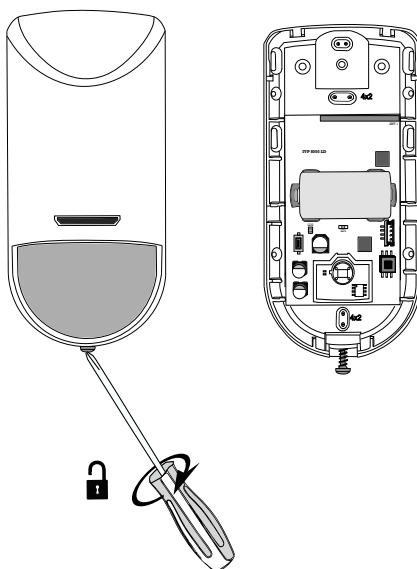


1. Mounting base
2. Wall mounting adapter
3. Ceiling mounting adapter
4. M3 hexagonal nut
5. M3×20 mm screw (fine thread)
6. 3.5×25 mm fixing screw
7. 6 mm fixing plug

4. Sensor opening

To access the IVP 8000 LD sensor board to change the battery or configure it, unlock the back cover by partially loosening the screw and remove the front cover, as shown in the image.

To install the sensor, follow the procedure below:



5. Sensor stabilization

After inserting the battery, the sensor enters stabilization mode and the blue LED flashes for a few seconds. When stabilization is complete, the blue LED will stop flashing.

6. Registering the sensor

Sensor registration can be done using the AMT Remoto Desktop programming software, the AMT Remoto Mobile application, keyboard commands or the synchronization button on the alarm control panel.

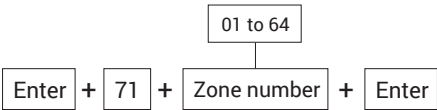
When registering using the control panel's synchronization button, the sensor addresses follow the registration sequence, e.g.: the first sensor will be registered in zone 1, the second sensor in zone 2, and so on. For other registration methods, please consult the alarm control panel manual.

1. Press the synchronization button on the alarm control panel;
2. LED 3 on the control panel will remain on for 3 minutes, indicating that it is waiting for the sensor to be registered;
3. Connect the battery and wait for the sensor to stabilize;
4. Press the sensor synchronization button;
5. The status LED will flash green, indicating correct registration. If it flashes red, registration was not performed and the procedure must be repeated.

7. Deleting the sensor registration

To remove the device from the alarm control panel, two steps are required, one directly on the sensor and the other on the alarm control panel.

- » **Sensor:** keep the sensor synchronization button pressed for approximately 10 seconds, observing the status LED flashing twice slowly in red.
- » **Alarm control panel:** enter programming mode and enter the command below:



For other ways to remove the sensor from the alarm control panel, please consult the complete alarm control panel manual.

8. Identifying the best location for installation

The IVP 8000 LD sensor has signal level indications for communication with the control unit, to help choose the best installation location. Follow the procedure:

1. With the sensor already registered in the alarm control panel, position it in the exact location where it will be installed, check the position where the sensor can cover the entire environment, respecting the recommended installation height;
2. Position the sensor in the exact location where it will be installed and perform a transmission through detection or opening of the tamper;
3. Observe the color of the status LED to determine the most suitable location for installation.

LED Status	Communication level
Green	Excellent signal level (recommended installation location)
Orange	Local regular signal level not recommended for installation (communication failure may occur)
Red	No communication (do not install on site)
Blue	Intrusion detection

If the signal level is not excellent, reposition the sensor or use a REP 8000 repeater and perform the procedure again. For more information about the REP 8000 repeater, consult the manual on the website: www.intelbras.com.br.

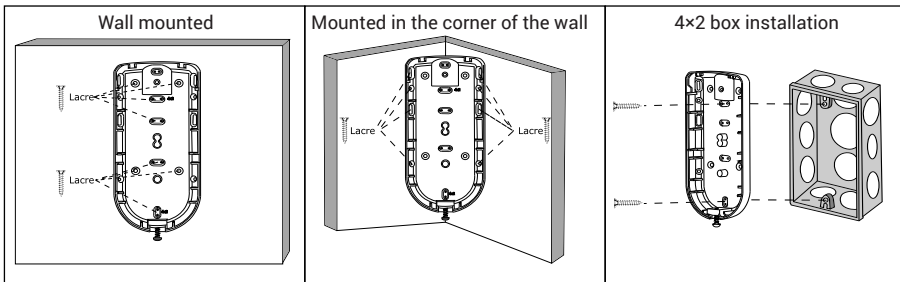
9. Installation

After identifying the best installation location, follow the recommendations:

- » Before starting the installation, it is necessary to define the height at which the sensor will be positioned, which can vary from 2.0 to 2.8 m;
- » The sensor must be installed on a flat, fixed surface free of vibrations;
- » For installation using the articulator, make sure that both the sensor and the support are firmly fixed in the installation location to avoid changes in the product's detection angle. Incorrect use of the articulator can change the sensor's detection area, creating blind spots and impairing its operating efficiency;
- » If the sensor is installed at an angle, its detection range and PET function may be impaired, rendering the function ineffective.

To install the sensor, follow the procedure below:

1. Remove the front cover of the sensor using a Philips screwdriver. It is not necessary to remove the entire screw.
2. For installation directly on the wall, 4×2 box or in the corner of a wall, remove the seals indicated for the holes in the rear fixing cover.



9.1. Installation using the articulator

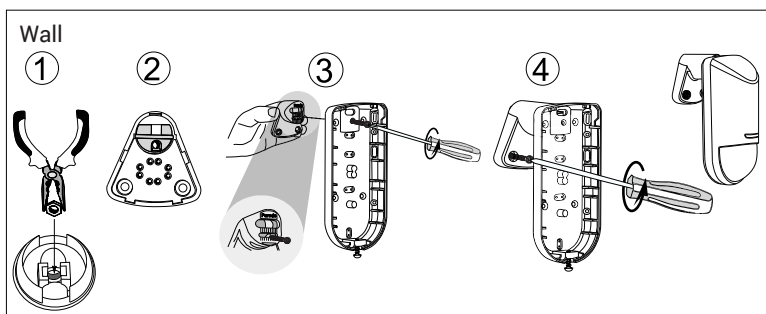
Attention: installing the sensor at an angle to the ground may compromise the performance of the *PET* function.

- » Use the fixing holes located on the base to fix the articulator;
- » The recommended screw for fixing articulators to the product is M3 × 20 mm.

Installing the articulator on the wall

1. Remove the seal securing the articulator;
2. Using a pair of needle-nose pliers, place the nut in the housing on the wall adapter and then insert it into the base of the support. Note that the opening must be facing upwards, as shown in image 2;
3. Fix the support to the wall;
4. Fix the base to the support and point the product towards the location you wish to protect.

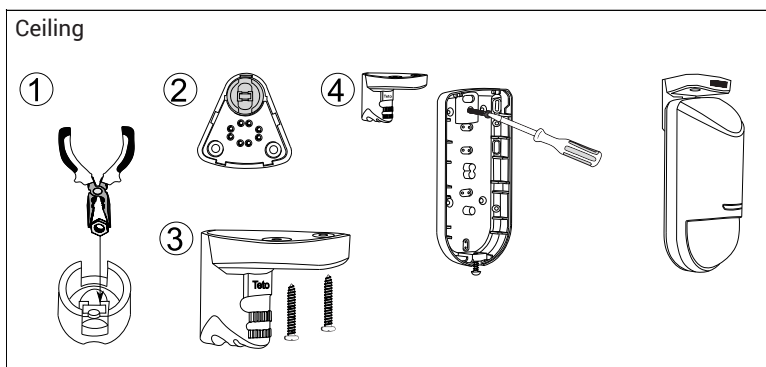
Note: the support only moves horizontally.



Installing the articulator on the ceiling

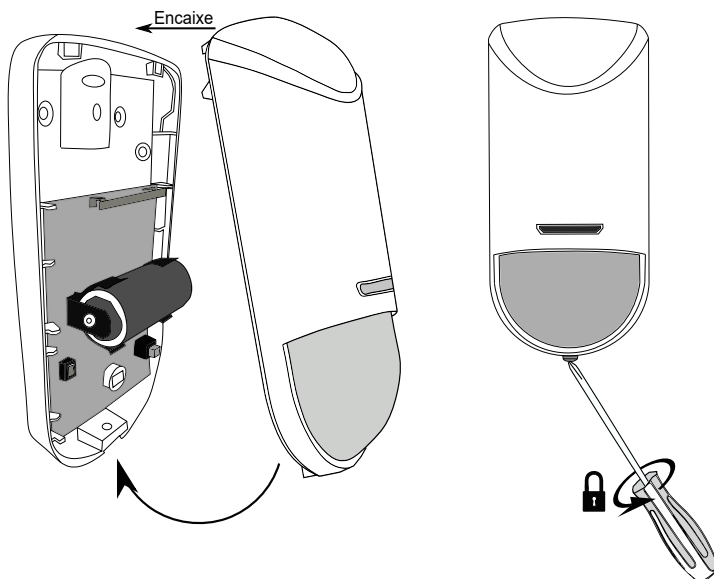
5. Remove the seal securing the articulator;
6. Using a pair of needle-nose pliers, place the nut in the housing on the ceiling adapter and then insert it into the base of the support. Note the correct position in image 2;
7. Fix the support to the ceiling;
8. Fix the base to the support and point the product to the location you wish to protect.

Note: the support only moves horizontally.



10. Process completion

Close the case by first fitting the top of the front cover and then lowering it perpendicularly towards the bottom of the sensor. Keep the front cover pressed against the base and tighten the screw.

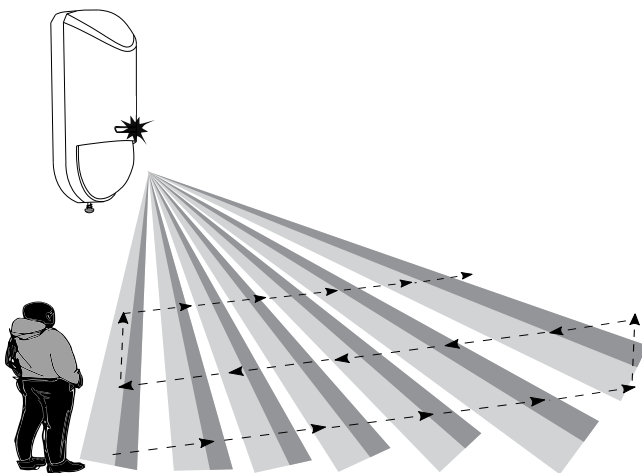


11. Trial period

The sensor enters test mode for 15 minutes after registering the sensor in the alarm control panel or pressing the synchronization button so that positioning adjustments can be made. During this period, any movement detection causes the blue LED to light up and a trigger is generated, regardless of the settings that are applied.

12. Test

Once installed and operating, walk around the entire area to be protected, simulating a possible intrusion into the environment. Observe whether the sensor is able to detect your movements during the walk, through the Blue LED (trigger). Adjust the sensitivity if necessary or reposition the sensor. Make sure to take all precautions and follow the installation recommendations to obtain the best operating performance from the product.



Note: put it control panel in test mode. This way, it will not be necessary to observe the LED, as the control panel will indicate that the sensor is working by means of siren beeps. For more information, consult the control panel manual on the website: www.intelbras.com.br.

13. Sensor configuration

Sensor settings can be made via keyboard, software or app. The configured functions are:

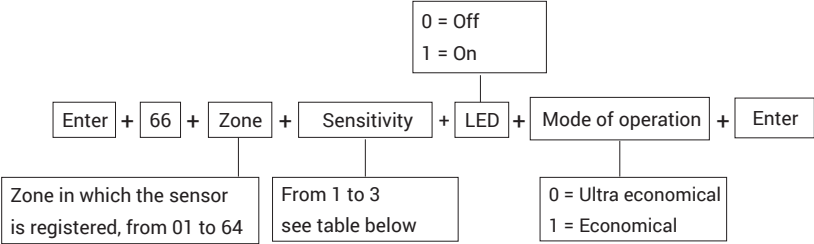
- » Detection sensitivity.
- » Blue detection LED, on or off.
- » Operating mode.

The configuration will only be applied to the sensor after communication with the alarm control panel, either by triggering, activating the tamper or pressing the synchronization button.

The configurations may vary according to the sensor version; the differences are exemplified below.

13.1. Setting the sensor via the keyboard

Using the alarm control panel keypad, enter programming mode with the installer password, then type the following command:



13.2. Information about sensor settings

- » **1P – Maximum sensitivity for motion detection:**recommended for use in controlled environments and for greater efficiency in detecting crawling.
- » **2P – Medium sensitivity (factory default).**
- » **3P – Minimum sensitivity for greater robustness against accidental triggering:**recommended for use in harsh environments or with the presence of PET.

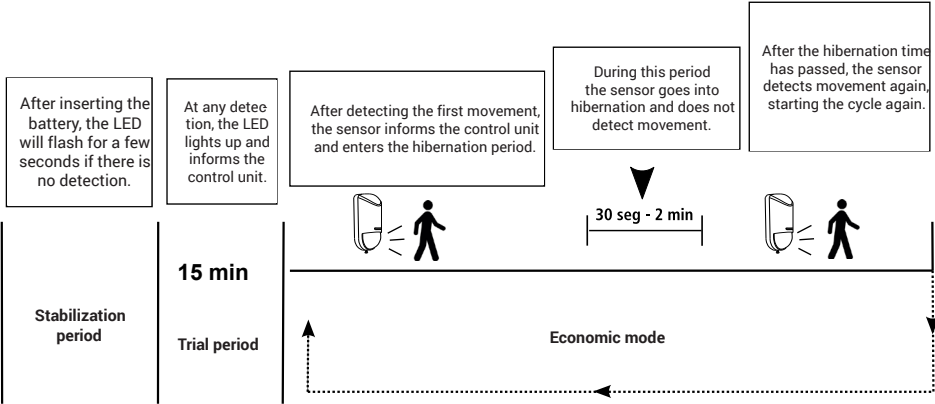
13.3. Information on LED function and operating mode

- » **Off:** LED does not light up. Factory default.
- » **On:** LED will light up upon every sensor detection.

Mode of operation

- » **Economical:** when it detects movement, the LED lights up, triggers the alarm and then goes into standby mode, lasting from 30 seconds (in an environment with little movement) to 2 minutes (in an environment with a lot of movement). During this rest period, the LED is not activated and no new alarms are generated. After the rest period, the sensor returns to monitoring the environment until new movement is detected.

This ability to learn from the movement of the environment means that in places with a lot of movement, periodic alarms are generated instead of continuous, saving battery power.



- » **Ultra Economical:** the sensor does not detect movement in the environment while the control panel is disarmed. Only communication with the alarm control panel. Factory default.



The operating modes are only valid for the disarmed control panel and after the test period. After arming the control panel, it is necessary to wait up to 3 minutes for the sensor to detect movement continuously. After the test period, the activation of the detection LED will be subject to the configuration enabled on the alarm control panel.

13.4. *Anti-sabotage* function

The *Anti-sabotage* function signals changes in the sensor position after installation. In case of attempted movement, a tamper signal is sent to the alarm control panel.

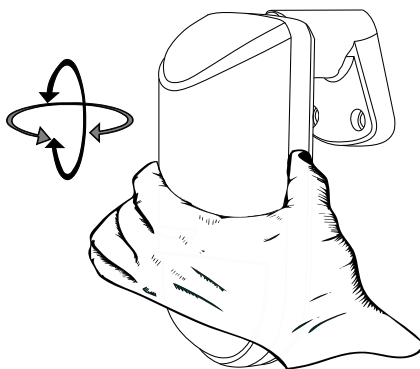
To program the anti-tamper function, access the alarm panel's programming mode and type the command:

Enter + 79 + G + Enter

G: Zone Group

Use the numeric keys to select or deselect the desired zone.

☒ Zone Disabled (**Factory Default**) ☐ Zone Enabled



Example 1: sensor operation during installation and testing period:

- » During the first 15 minutes after registration;
 - » During the first 15 minutes after pressing the synchronization button;
 - » During the test of the wireless sensors configured on the keyboard (*programming: Enter + 52 + Enter*).
1. Register the sensor with a control panel (see item 6. Registering the sensor).
 2. With the sensor registered, close the front cover and keep the sensor in a fixed position.
 3. Change the position of the sensor, either vertically or horizontally, and keep it in the new position.
 4. Check on the keypad or in the configuration applications whether the tamper message, related to the zone in which the sensor was registered, is being displayed. Remember that sending this tamper message can take up to 45 seconds.
 5. The tamper will be automatically restored after 1 minute, erasing the message displayed on the keypad and sending a restoration event.

Example 2: sensor operation after the installation and testing period:

- » 15 minutes after registration;
 - » 15 minutes after the synchronization button is pressed;
 - » 15 minutes after the wireless sensors test configured on the keyboard (*programming: Enter + 52 + Enter*).
1. Change the position of the sensor, either vertically or horizontally, and keep it in the new position.
 2. Check on the keyboard or in the configuration applications whether the tamper message, related to the zone in which the sensor was registered, is being displayed. Remember that sending this tamper message can take up to 45 seconds.
 3. At this stage, the tamper will not be restored automatically.
 4. The tamper can be restored using any of the options below:
 - » **Option 1:** for immediate reset, press the sensor sync button once.
 - » **Option 2:** use the keyboard command to enter sensor test mode (in programming mode *Enter + 52 + Enter*). Remain in programming mode for at least three minutes.
 - » **Option 3:** command via keyboard (in programming mode: *Enter + 543 + 2-digit sensor zone number + Enter*). Reset will occur within 3 minutes.

Setting up the sensor via the app

After the application is properly connected to the alarm center, select Configure center on the App's main screen.

Menu	
Configure hub	>
Online	>
Events	>

Then select sensors:

Settings	
General	>
Zones	>
Passwords	>
Communication	>
Event codes	>
IP monitoring	>
Ethernet/Wi-Fi	>
GPRS	>
Scheduled activation/deactivation	>
Sensors	>

Once done, select the sensor you want to configure. Example: sensor 1.

Menu	
Sensor 1	>
Sensor 2	>
Sensor 3	>
Sensor 4	>
Sensor 5	>
Sensor 6	>
Sensor 7	>
Sensor 8	>
Sensor 9	>
... Sensor 64	>

After selecting the sensor, the following adjustment screen will open.

Sensor 1	
Sensitivity	
Level 1 (maximum sensitivity)	<input type="radio"/>
Level 2 (medium sensitivity)	<input checked="" type="radio"/>
Level 3 (minimum sensitivity)	<input type="radio"/>
LED	
Always off	<input checked="" type="radio"/>
On when triggered	<input type="radio"/>
Mode of operation	
Ultra-Economic Mode	<input checked="" type="radio"/>
Economic Mode	<input type="radio"/>
Discard Changes	Salve

Note: to configure the settings, check the sensitivity table, the explanations of how the LED works and the Operation mode.

For more information, see the AMT REMOTE application tutorial.

14. Battery

The sensor monitors the battery level and sends low battery information to the alarm control panel, indicating that the battery must be replaced.

Use only quality batteries with the correct size for the device. The estimated battery life is 3 to 5 years, and may be influenced by the number of activations, weather conditions and sensor configuration mode.

We recommend replacing batteries with the same brand and industrial model, as purchased from the factory.

Attention: we recommend replacing batteries with Panasonic Industrial, Duracell High Power or GP Pro brands and models.



Product with battery. Dispose of at authorized Intelbras locations or at collection points designated for this purpose. May pose a risk to human health and the environment. Questions: www.intelbras.com.br, suporte@intelbras.com.br or (48) 2106-0006 or 0800 7042767.

15. Battery replacement

To replace the product battery:

- » Remove the discharged battery.
- » Press the synchronization button to completely discharge the circuit.
- » Insert the new battery.

16. Homologation

This equipment is not entitled to protection against harmful interference and may not cause interference in duly authorized systems. This is a product approved by Anatel, the approval number is found on the product label, for inquiries access the website: <https://www.gov.br/anatel/pt-br>.

Warranty term

It is expressed that this contractual guarantee is granted under the following conditions:

Client name:

Customer's signature:

Invoice number:

Purchase date:

Model:

Serial number:

Dealer:

1. All parts, pieces, and components of the product are warranted against any manufacturing defects, which may present, for a period of 1 (one) year – 90 (ninety) days of legal warranty and 9 (nine) months of contractual warranty –, as of the date of purchase of the product by the Consumer, as stated in the invoice for the purchase of the product, which is an integral part of this Term throughout the national territory. This contractual guarantee includes the free exchange of parts, pieces, and components with a manufacturing defect, including labor expenses in the repair. If no manufacturing defect is found, but a vice arising from improper use, the Consumer shall bear such expenses.
2. The product must be installed according to the Product Manual and/or Installation Guide. If your product requires installation and configuration by a qualified technician, look for a suitable and specialized professional, and the costs of these services are not included in the price of the product.
3. Once the defect is found, the Consumer must immediately contact the nearest Authorized Service in the list provided by the manufacturer – only these workshops are authorized to examine and solve the defect during the warranty period provided for herein. If this is not respected, this guarantee will lose its validity, as it will be characterized as a product violation.
4. In the event that the Consumer requests home service, it should go to the nearest Authorized Service for consultation of the technical visit fee. If the product needs to be withdrawn, the resulting expenses, such as transportation and safety in the product's trips, are under the responsibility of the Consumer.
5. The warranty will be totally void in any of the following events: a) if the defect is not a manufacturing defect, but caused by the Consumer or by third parties foreign to the manufacturer; b) if the damage to the product comes from accidents, acts of God (lightning, floods, landslides, etc.), humidity, voltage in the electrical network (overvoltage caused by accidents or excessive fluctuations in the network), installation/use in disagreement with the user manual or due to the natural wear and tear of parts, pieces, and components; c) if the product has been influenced by a chemical, electromagnetic, electrical, or animal nature (insects, etc.); d) if the product's serial number has been tampered with or erased; e) if the device has been tampered with.
6. This warranty does not cover data losses, therefore, it is recommended that the Consumer regularly back up the data contained in the product, if applicable.
7. Intelbras is not responsible for the installation of this product, and also for any attempted fraud and/or sabotage of its products. Keep software and applications updates up to date, if applicable, as well as the required network protections to protect against intrusions (hackers). The equipment is warranted against vices within its normal conditions of use, it is important to be aware that, as in any electronic equipment, it is not free from fraud and scams that may interfere with its correct operation.

These being the conditions of this complementary Warranty Term, Intelbras S/A is entitled to the right to change the general, technical, and aesthetic characteristics of its products without prior notice. All images in this manual are illustrative.

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talk to us

Customer Support:  +55 (48) 2106 0006

Forum: forum.intelbras.com.br

Support via chat: chat.apps.intelbras.com.br

Support via e-mail: suporte@intelbras.com.br

Customer Service / Where to buy? / Who installs it?: 0800 7042767

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