English

intelbras

User manual

IVP 7000 SMART EX

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IVP 7000 SMART EX
Wireless passive infrared motion sensor

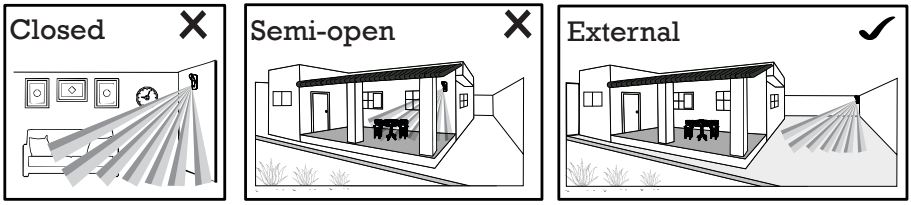
Congratulations, you have just purchased a product with Intelbras quality and safety.

The IVP 7000 SMART EX motion sensor has passive infrared detection technology, adopting advanced signal analysis technology to prevent accidental triggering in environments with a high risk of intrusion. The IVP 7000 SMART EX sensor is protected against dust, water and immunity to white light, which makes it perfect for the harshest environments, ideal for outdoor environments . Its lens was specially built for long life, containing materials resistant to sunlight.

Care and safety

» LGPD – Data processing by Intelbras: Intelbras does not access, transfer, capture or perform any type of processing of personal data from this product.

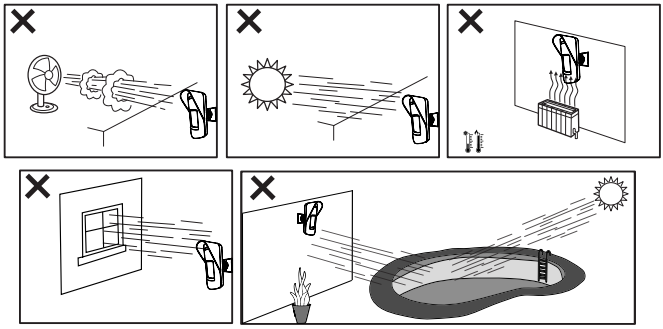
» This sensor is specified for EXTERNAL environments. Its installation in an INTERNAL environment may impact the performance in detecting intrusions.



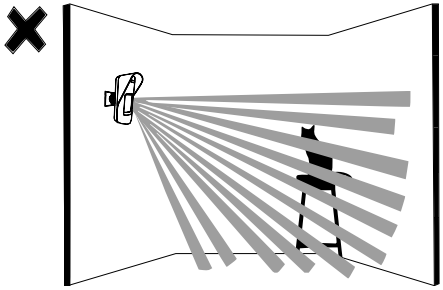
» Do not touch the surface of the infrared (PIR) sensor. If necessary, use a soft, dry cloth to clean it.

» Do not use the sensor near areas with sudden changes in temperature, such as air conditioners, heaters, fans, refrigerators, and ovens. Do not expose the sensor with the lens facing directly or to reflected sunlight.

» Do not install the sensor facing infrared sources, such as cameras.

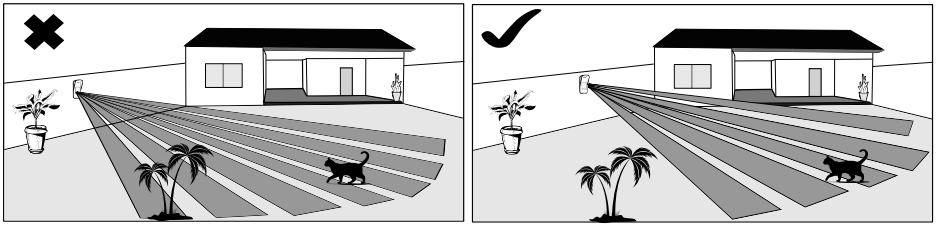


» The Pet function is intended for crawling animals weighing up to 30 kg. If the animal is on top of a bench, for example, the Pet function can be canceled.

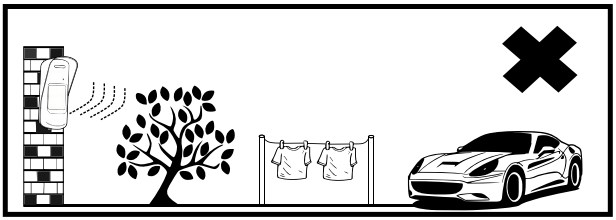


Note: *the presence of another animal in the environment may compromise the efficiency of the Pet function.*

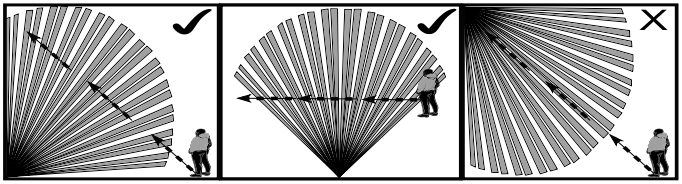
» For accurate detection and correct functioning of PET immunity in environments with vegetation, such as trees and shrubs, it is recommended to position the sensor in a location where the vegetation remains outside the coverage area.



» Do not place objects in front of the sensor. Keep the detection area free of moving objects, such as bushes, clotheslines, cars or any objects that block the scanning. Do not exceed the sensor installation height (2.2 m).



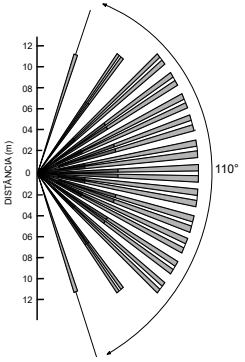
» The sensor must be installed where an intruder can be easily detected, that is, where it makes movements transverse to the detection beams.



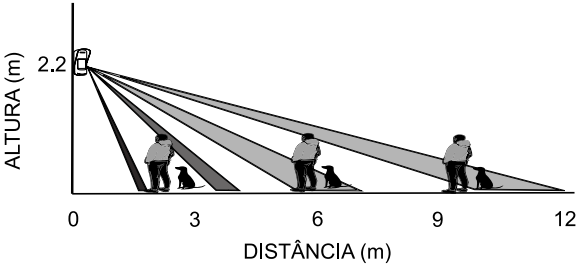
» The sensor must be installed on a flat, fixed and vibration-free surface, at a height between 2.0 and 2.2 meters. It is recommended to install the sensor parallel to the wall to ensure the greatest detection range.

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

Detection area (top view)



Detection angle (side view)



Summary

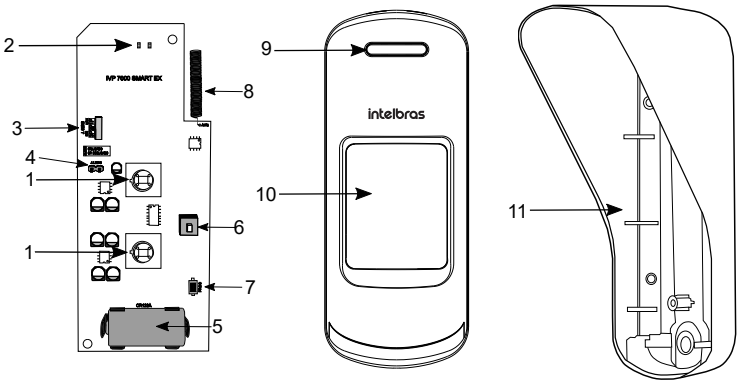
1. Technical specifications

Operating voltage	3 Vdc
Battery (CR123A)	Panasonic Industrial, Duracel High Power or GP Pro
Supervised operating current	28 mA
Unsupervised operating current	18 mA
Idle power consumption	10uA
Detection angle	110°
Detection range	12 metros
Detection method	PIR
Number of pyroelectric sensors	2
Type of pyroelectric sensor	Dual
Pet immunity	Up to 30 kg
Sensitivity	1P – Maximum
	2P – Intermediate (Factory default)
	3P – Minimum
Startup time	Up to 60 seconds
Transmission frequency	433.92 MHz
Anti-tampering	Front tamper
Transmission distance	Up to 400 m barrier-free (supervised)
	Supervision
Operating temperature	Supervised (FSK) or unsupervised (OOK)
Recommended installation height	-10°C to 50°C
Dimensions (W × H × D)	2.2 meters
Dimensões (L × A × P)	79,45 × 183,76 × 85,9

2. Characteristics

- Tamper-proof (tamper switch);
- Automatic temperature compensation;
- RFI/EMI immunity;
- Immunity to crawling animals weighing less than 30 kg;
- IPX4 water and dust protection;
- LED trigger verification;
- Immunity to white light up to 20,000 lux;
- Adjustable infrared (PIR) sensitivity;
- Power supply: 3 Vdc LITHIUM battery – CR123A;
- Selectable light indication;
- Low battery indication.

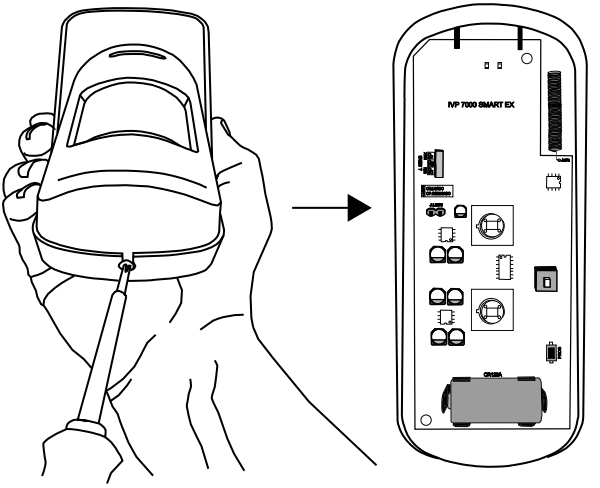
3. Product



1. Pyro sensor
2. LEDs
3. Sensitivity switch
4. LED jumper
5. Battery and battery connector
6. Tamper switch
7. PROG Button
8. Antenna
9. LED Light Conductor
10. Fresnel Lens
11. Product Base

4. Sensor opening

To access the IVP 7000 SMART EX board for registration, battery replacement or configuration, simply remove the screw from the bottom with a Philips screwdriver and remove the front cover. This way, the board will be exposed and ready for use. See the image:



5. Sensor stabilization

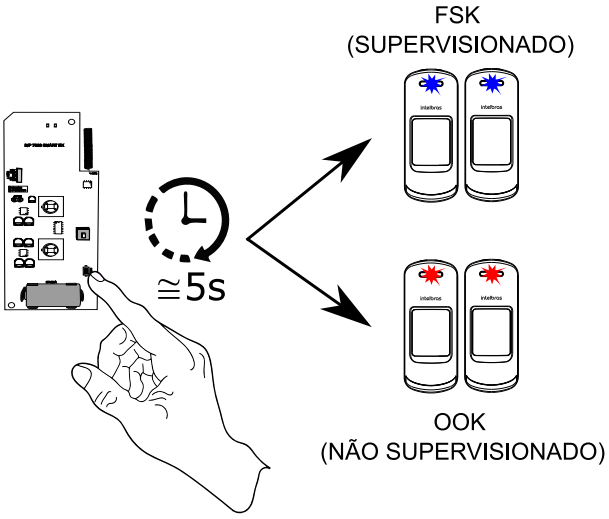
After inserting the battery, the sensor enters stabilization mode and the LED flashes for a few seconds. When stabilization is complete, the LED will stop flashing.

6. IVP 7000 SMART EX sensor registration

To register the sensor in the alarm control panel, check the procedure in the manual for the alarm control panel used and trigger it by moving in front of the sensor or pressing the PROG button located on the sensor board.

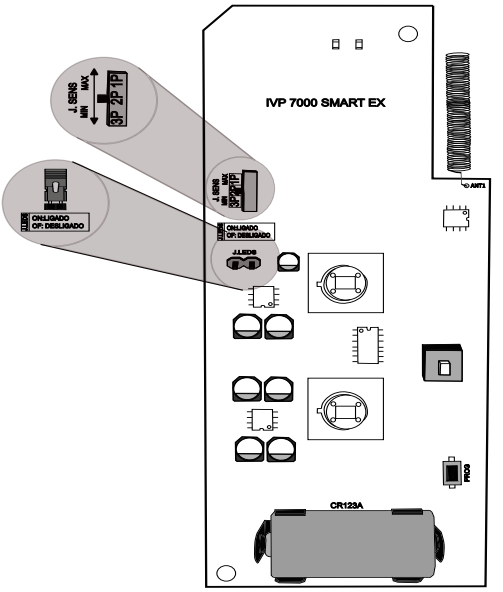
Note: *do not register the sensor in the control panel during the stabilization time.*

The IVP 7000 SMART EX sensor allows you to select between supervised (FSK) and unsupervised (OOK) modes. To switch between supervision modes, press and hold the PROG button for approximately 5 seconds until the LED flashes twice. When the LED flashes blue, it has changed to supervised (FSK) mode; when the LED flashes red, it has changed to unsupervised (OOK) mode. Factory default: unsupervised.



When changing the sensor's modulation, it is necessary to delete the sensor from the alarm control panel and register it again. The type of supervision to be used will depend on the receiver's compatibility with the alarm control panel.

7. Configuring the IVP 7000 SMART EX sensor



7.1. Operating mode settings

» **J.LEDS:** The jumper (J. LEDS) is used to control the LED indication without interfering with the detector. With the jumper, the indication LEDs are enabled, i.e., lit.
Factory default: LEDs lit.

LEDs	
J.LEDS	**LEDs**
Condition	**Result**
With Jumper	LED on
Without Jumper	LED off

» **J.SENS key – SENSITIVITY:** controls the sensor detection sensitivity for triggering the alarm. This setting has three selectable levels; choose the appropriate setting according to the environment in which the sensor will be installed.

Sensitivity adjustment

» **1P – Maximum sensitivity:** for motion detection. Recommended for use in controlled environments.

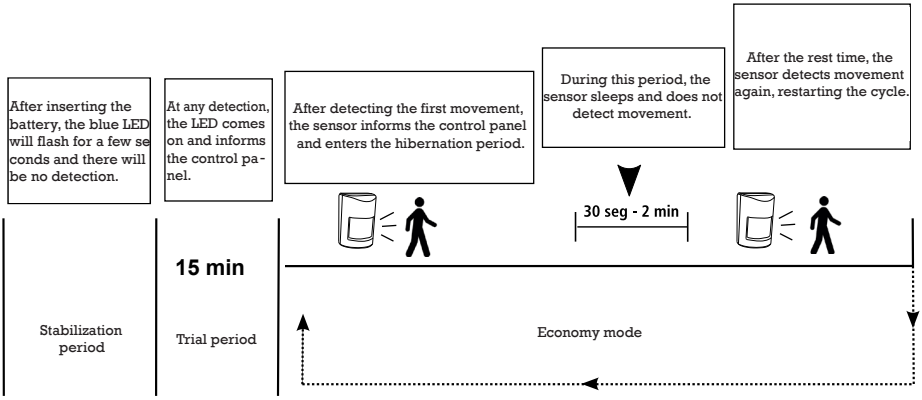
» **2P – Medium sensitivity:** recommended for use in environments with the presence of PET (factory default).

» **3P – Minimum sensitivity:** for greater robustness against accidental triggering. Recommended for use in harsh environments or with the presence of PET.

7.2. IVP 7000 SMART EX operating mode

Once energized, the sensor will operate in the test period for 15 minutes so that the installer can make all the sensor positioning adjustments. During this period, if any movement is detected, the LED will turn on and a trigger will be generated. The sensor will then operate in economy mode.

» **Economy Mode:** when it detects movement, the LED turns on, triggers the alarm and goes into hibernation, remai ning in hibernation for a period that can last from 30 seconds (environment with little movement) to 2 minutes (environment with a lot of movement). During this hibernation period, the LED is not activated and no new triggers are generated, since a notification has just been sent to the alarm center. After the hibernation 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 triggers are generated instead of con tinuous, in turn, saving battery.



8. Tamper function

This function sends a tamper signal to the control panel if the sensor is tampered with through its front cover. This function can be enabled when the sensor is configured to operate in supervised mode (FSK). For this function to work, the zones must be configured to identify the Tamper. When the sensor is opened, the zone will be open and the Tamper event will be generated. The zone will remain open until the sensor is closed. This function is available in the AMT 4010 Smart control panels (from version 5.0) and ANM 24 NET (from version 6.1.0). To configure it in the control panel: enter programming mode with the installer password, and then type the following command.

AMT 4010 SMART – AMT 2018 E SMART – AMT 1000 SMART

Note: *the zones that can be configured with this function are: AMT 4010 SMART (17 to 64), AMT 2018 E SMART AND AMT 1000 SMART (25 to 48). And they can be programmed according to the command below:*

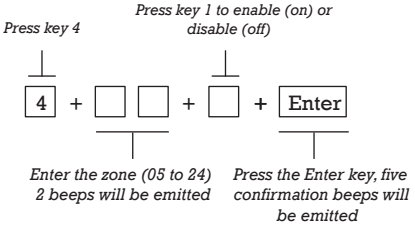
Enter + 7 8 + G + Enter

G - Zone Group	Zones
0	1 to 8 (not applicable)
1	9 to 16 (not applicable)
2	17 to 24
3	25 to 32
4	33 to 40
5	41 to 48
6	49 to 56
7	57 to 64

ANM 24 NET

If this feature is enabled, i.e. if key 1 is lit, the wireless sensor will send a tamper signal to the alarm control panel if it is tampered with through its front cover. To disable this feature, press key 1 so that the key is off. To complete the configuration process, press the Enter key. If you have entered the command to configure the tamper function and want to cancel the operation, simply press the Cancel key.

Note:*the zones that can be configured with this function are 05 to 24. They can be programmed according to the command below:*



9. Low battery sensor

The IVP 7000 SMART EX sensor monitors the battery level and, if it is critical, sends the information to the alarm control panel during triggering. In addition, the sensor also signals through the LED; after each sensor activation, the LED lights up (as normal) and then flashes, indicating low battery.

Use only quality batteries with the correct size for the device. With typical use, the estimated battery life is 1 to 2 years, and may be influenced by the number of activations, weather conditions and configuration mode. The battery model must be CR123A 3V, and one (1) battery should be used per sensor.

10. Battery replacement

To replace the product battery:

- Remove the discharged battery;
- Press the PROG button or wait a few seconds for the circuit to discharge completely;
- Connect the new battery.

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

Battery-powered product. Dispose of at authorized Intelbras sites or at collection points specifically designed for this purpose. It can cause risk to human health and the environment. Questions: www.intelbras.com.br, support@intelbras.com.br or (48) 2106-0006 or 0800 704 2767.

11. Installation

» Before starting the installation, it is necessary to define the height at which the sensor will be positioned, which can vary from 2 to 2.2 m;

» For installation using the articulator, make sure that both the sensor and the support are securely 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.

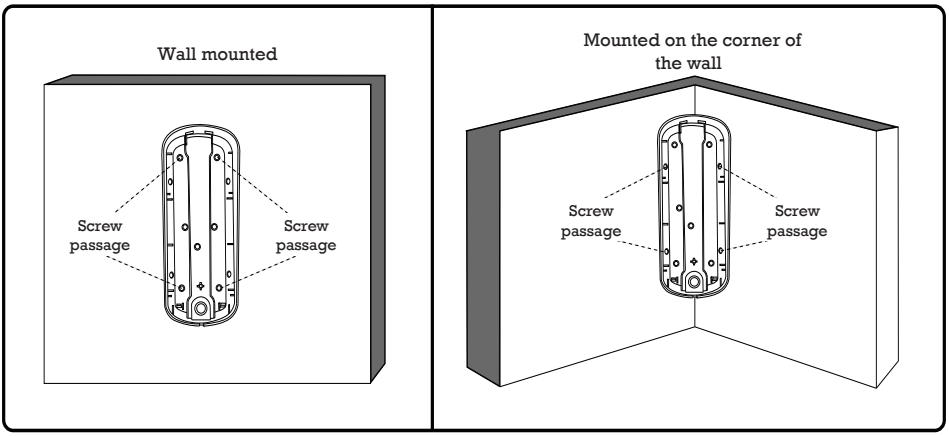
To install the sensor, follow the procedure below:

» For installation directly on the wall, or in a wall corner, remove the plate and break the seals indicated for the holes in the rear fixing cover.

Attention!

Check that the drilling is in accordance with the size of the screw to be used, as inadequate drilling may cause water, dust and insects to enter the product.

» After the sensor is installed in the location to be protected, place the plate back on the base, observing the fittings.



11.1. Installation with the use of the articulator

» The IVP 7000 SMART EX sensor comes with the XSA 1000 support, follow the steps below for its correct use.

Articulated support

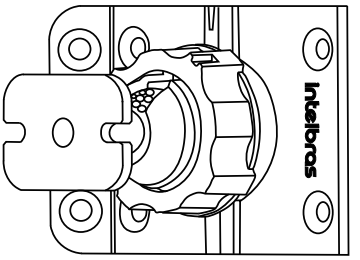
The articulated support has been built to fit perfectly into most presence sensors available on the market, in addition to having a large direction angle, support for wire passages and UV protection for installation in indoor or outdoor environments.

Technical specifications

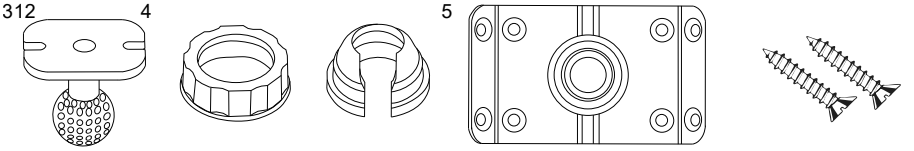
General features	
Material	Plastic with UV protection
Weight	44 g
Load capacity	1.5 Kg
Installation environment	Internal / External
Dimensions (L × W × D)	99 × 58 × 64
Horizontal movement angle	160°
Vertical movement angle	160°

Product

Mounted bracket

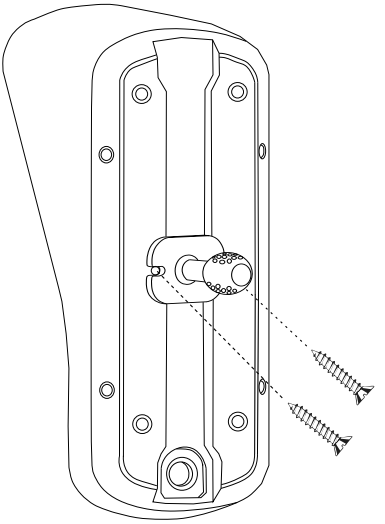


Components	
1	Axle
2	Fixing pin
3	Ring
4	Base
5	Screw 3.5 × 9.5 mm

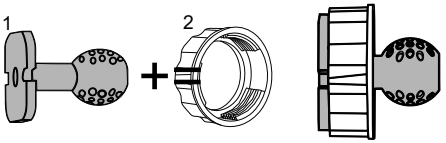


Installation

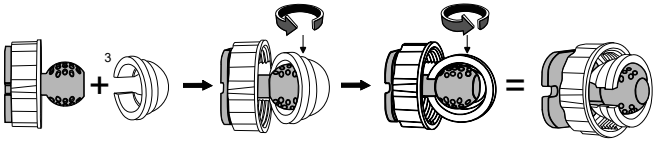
» Fix the axle (piece 1) into the product, using the screws;



» Insert the axle into the fixing hole (piece 1 and piece 2);



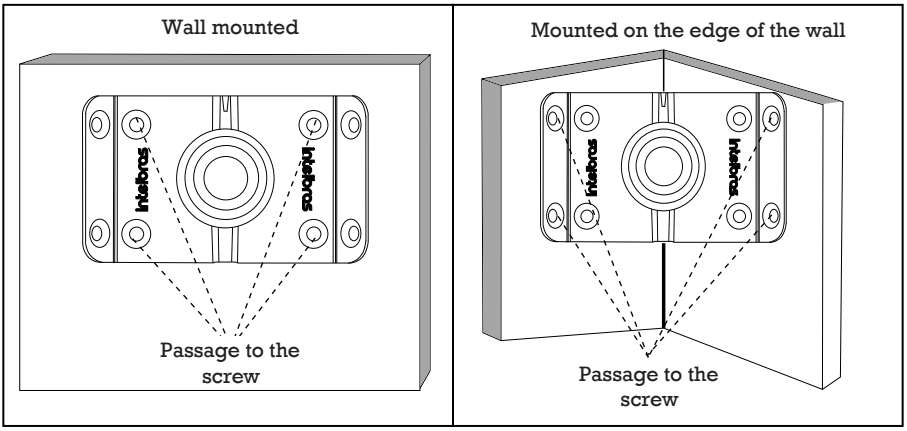
» Position the ring (piece 3) on top of the opening at the start of the axle (piece 1). Turn the ring to fit it into place;



To fix the XAS 1000 in the installation location, follow the steps below:

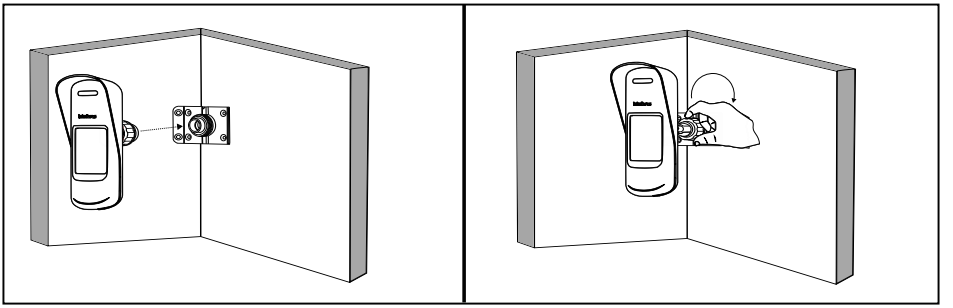
» If the sensor is installed on a flat surface, use the four inner holes of the base for fixing.

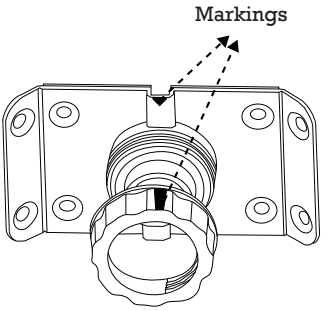
» If the sensor is used on a 90° machine, use the four outer holes on the base.



» After the base is permanently fixed, attach the sensor to the base and point it towards the desired detection field, always respecting its specifications. Lock the sensor position by turning the fixing ring clockwise all the way.

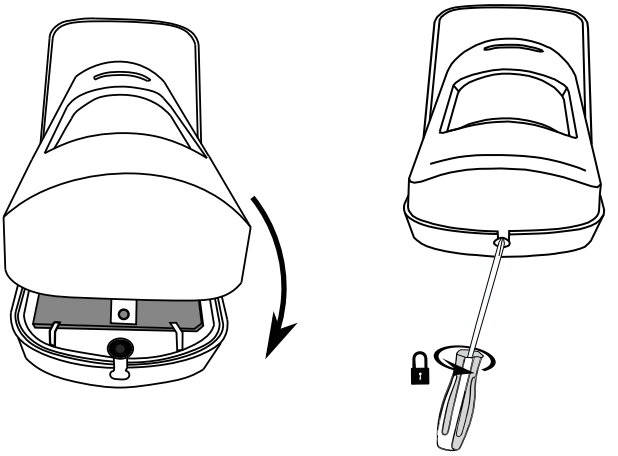
Note: *check the marking on the base and the fixing nut to facilitate fitting.*





11.2. Process finalization

Once the sensor configuration is complete, close it by fitting the top of the cover onto the base and tightening the screw.

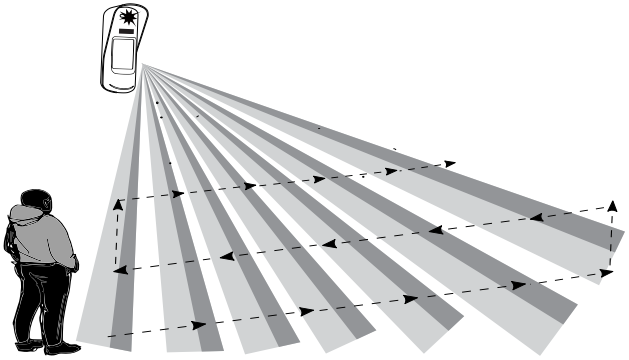


12. Trial period

The sensor enters test mode for 15 minutes after inserting the battery and after the stabilization time. During this period, if any movement is detected, the LED lights up and a trigger is generated.
To restart the test period, press the PROG button on the sensor (available from version 1.3.0).

13. Test

Once installed and in operation, 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 LED. Adjust the sensitivity according to the environment 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:*if the alarm control panel used is Intelbras, set it to 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.*

14. Homologation

ANATEL 05326-18-00160

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 established that this warranty is granted upon the following conditions:

Client's name:
Client's signature:
Invoice number:
Date of purchase:
Model: Serial number:
Retailer:

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1. All the parts, pieces and components of the product are guaranteed against possible manufacturing defects, which may arise, for the term of 1 (one) year - this being 90 (ninety) days of legal warranty and 9 (nine) months of contractual warranty –, counting from the date of purchase of the product by the Consumer, as appears in the product purchase bill of sale, which is an integral part of this Term throughout the domestic territory. This contractual warranty includes the free exchange of parts, pieces and components which have a manufacturing defect, including the expenses with labor used in this repair. If there is no manufacturing defect, but defect(s) arising from misuse, the Consumer shall bear these expenses.
2. The installation of the product shall be executed in accordance with the Product Manual and/or Installation Guide. If your product requires the installation and configuration by a qualified technician, seek a suitable specialized professional, the costs of these services not being included in the product amount.
3. Having perceived the defect, the Consumer shall immediately contact the nearest Authorized Service which appears in the report offered by the manufacturer – they are the only ones authorized to examine and remedy the defect during the warranty term foreseen herein. If this is not respected, this warranty shall lose its validity, as it shall be characterized as product infringement.
4. If the Consumer requests home service, it shall contact the nearest Authorized Service to inquire about the technical visit rate. If it is necessary to remove the product, the ensuing expenses, such as those of transportation and insurance of the taking and return of the product, shall be the Consumer's responsibility.
5. The warranty shall lose its validity totally in the occurrence of any of the following cases: a) if the defect is not one of manufacture, but is caused by the Consumer or by third parties foreign to the manufacturer; b) if the damage to the product arises from accidents, disasters, agents of nature (lightning, floods, landslides, etc.), humidity, voltage in the electrical network (excess voltage caused by accidents or excessive fluctuations in the network), installation/use in disagreement with the user's manual or arising from natural wear of the parts, pieces and components; c) if the product has undergone effects of a chemical, electromagnetic, electrical or animal (insects, etc.) nature; d) if the serial number of the product has been falsified or erased; e) if the appliance has been infringed.
6. This warranty does not cover loss of data; therefore, it is advisable that if it is the case of the product, the Consumer makes a backup regularly of the data which appears in the product.
7. Intelbras is not responsible for the installation of this product, or for possible attempts at fraud and/or sabotage in its products. Maintain the updates of the software and applications used up-to-date, if it is the case, as well as the network protection required for defense against hackers. The equipment is guaranteed against defects in its usual conditions of use, it being important to bear in mind that, as it is electronic equipment, it Is not free of fraud and scams which may interfere with its correct functioning.

These being the conditions of this complementary Warranty Term, Intelbras S/A reserves the right to alter the general, technical and esthetic features of its products without prior notice.

All the images of this manual are illustrative.

Product benefiting from the Legislation of Informatics.

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

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