

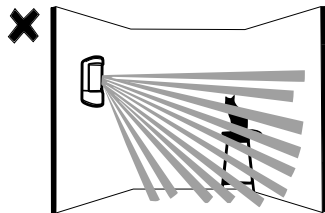
Passive infrared sensor

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

The IVP 5002 PET passive infrared sensor has intelligent passive infrared detection technology, adopting advanced signal analysis technology, which can prevent false triggering in dangerous environments. This sensor is intended for indoor environments.

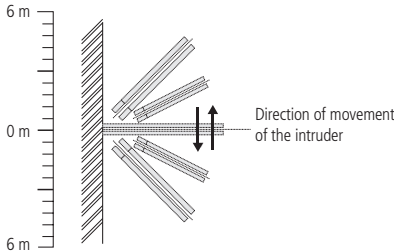
1. Care and safety

- » Follow all instructions in the manual for assembling and installing the product.
- » This sensor is intended for indoor environments.
- » Do not touch the surface of the infrared (PIR) sensor. If necessary, use a soft cloth moistened with water to clean the product.
- » The sensor must be installed where a possible intruder is easily detected, that is, where a person performs movements transverse to the sensor's detection beams when entering the environment.
- » It is important to note that the Pet function is designed for crawling animals, so if the animal is not on the ground, but on top of a bench, for example, it can be detected thus canceling the Pet function, as seen in the image below :



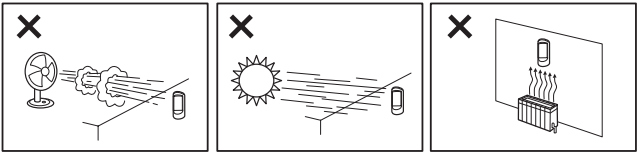
PET function

- » Do not install the sensor facing glass doors or windows.



Top view

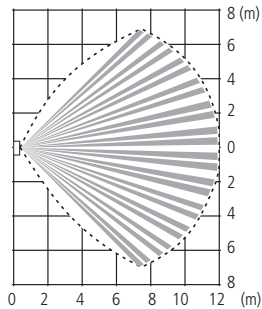
- » Do not place objects in front of the sensor. To ensure the detection area, avoid curtains, screens, partitions, or any object that blocks the scan. Do not exceed the maximum sensor installation height (2.2 m).
- » Do not use the sensor in areas with sudden changes in temperature, near air conditioners, heaters, cooling fans and ovens. Do not expose the sensor to direct sunlight.



- » Confirm that the installation location is stable and free from flickering.
- » This sensor does not have a "Look down " or zero zone (see the figure in the item 1.2. *Faixa de detecção (vista lateral)*), so make sure that the installation of the sensor makes it impossible for intruders to enter this area.
- » For the use of the articulator, we recommend that the installation is done by a professional installer, as its incorrect use may impair the *PET* function and the sensor coverage angle.
- » 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 violations. Take all necessary precautions for the safety and protection of your property.
- » We recommend that the sensor configuration be done according to the item 6. *Configurando o sensor IVP 5002 PET* in this manual.

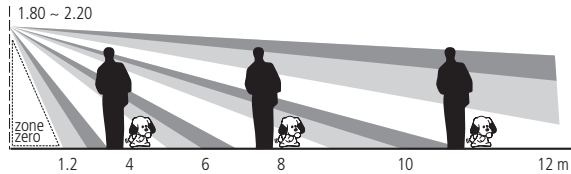
Note: Before starting the installation, it is necessary to define the height at which the sensor will be positioned, which can vary from 1.80 to 2.2 m, according to the item table of 5. Instalação this manual.

1.1. Scan (top view)



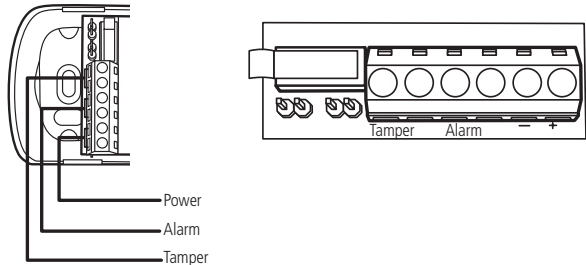
Top view

1.2. Detection range (side view)



Side view

1.3. Terminal Block



Terminal Block

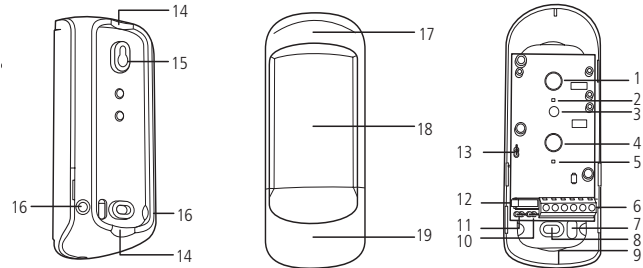
2. Technical specifications

Operating voltage	9 – 16 Vdc
Operating Current	≤20 mA
Detection Angle	110°
Detection Range ¹	12m
Detection method	Double PIR
Sensors	Low noise PIR
Immunity to animals	Up to 35 kg
Start Time ²	60 seconds
Installation height ²	2.1 m ~ 2.2 m
Operating temperature	-10 °C ~ +50 °C
Relay output	Optional Open / Closed
Pulse Jumper (J.PULSE)	Optional Open / Closed

3. Features

- » Microcontrolled sensor;
- » Sensitivity Adjustment.
- » Automatic temperature compensation.
- » Immunity to white light up to 20,000 lux;
- » High immunity to RFI / EMI;
- » Highly effective algorithm against false triggering.
- » Double PIR sensor.
- » Immunity to pets up to 35 kg;
- » Anti-tamper key for lower front cover.
- » Easy installation.

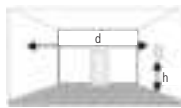
4. Product



- PIR 1 Sensor
- Blue LED 1.
- Plate fixing screw
- PIR 2 Sensor
- Blue LED 2.
- Cable connection terminals.
- Cable routing for installation
- Screw hole for installation directly on the wall.
- Screw hole for attaching the lower front cover
- PULSE jumper.*
- RELAY Jumper*
- Tamper switch.
- Jumper *LEDs*.
- Recess for the routing of installation cables.
- Oblong
- Location of the screws for installation in the corner of the wall.
- Upper Front Cover
- Fresnel lens
- Lower Front Cover

5. Installation

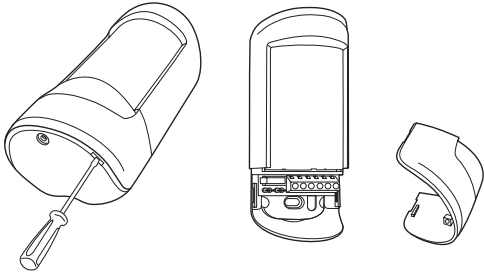
Before starting the installation, it is necessary to define the installation height of the sensor. We recommend that this sensor be installed according to the table below.



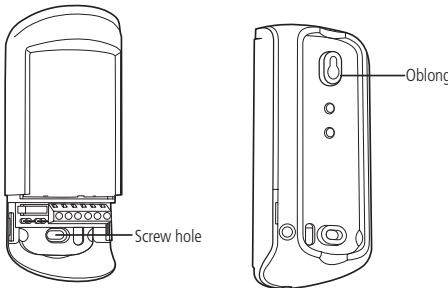
Distance (d)	Pet Animal	Installation height (h)
Less than or equal to 4 m	Without the presence of an animal pet	1.8 to 2 m
	With the presence of an animal pet	
Greater than 4 m to 12 m	With the presence of an animal pet	2.1 to 2.2 m
	Without the presence of an animal pet	1.8 to 2.2 m

The IVP 5002 Pet sensor does not have an articulator. . So for your installation, follow the procedure below:

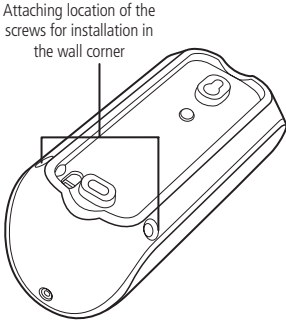
» **Step 1:** remove the lower front cover of the sensor.



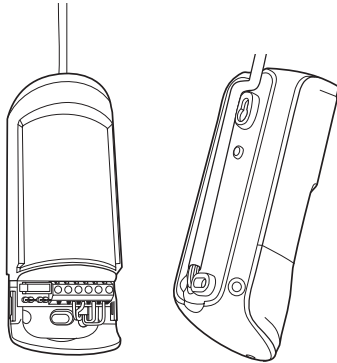
» **Step 2:** if the installation is done directly on the wall, use the oblong located in the upper rear region of the sensor and the hole indicated for placing the screw just below the connectors.



» **Step 2.1:** if the installation is done in the corner of the wall, use the holes indicated on the back cover.

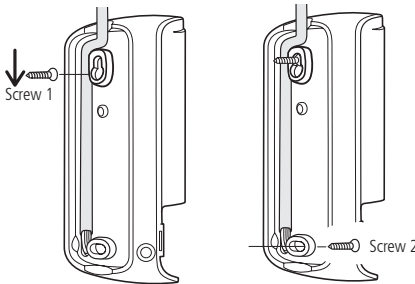


» **Step 3:** connect the installation cables to the terminals.



» **Step 4:** using a screw with dimensions of 6 × 20 mm, install the sensor on the wall following the procedure below.

- » Fix screw 1 on the wall and fit the sensor so that it does not have any slack.
- » Using the hole below the connectors, place screw 2 and screw until the sensor is fully attached.



6. Configuring the IVP 5002 PET sensor

The *LED* jumper is used to control the LED indication without interfering with the detector. With the jumper in the *CLOSED* position, LEDs on. With the jumper in the *OPEN* position, the LEDs are off. Factory default: *LEDs on*.

The Pulse *jumper* controls the pulse count to trigger the alarm. With the jumper in the *OPEN* position, the sensor provides maximum sensitivity. With the jumper in the *CLOSED* position, the sensor provides minimal sensitivity, that is, appropriate detection for environments with a high incidence of EMI and RFI interference. Factory default: jumper in the *CLOSED position*.

The *RELAY* jumper controls the state of the relay contact. With the jumper in the *CLOSED* position, the contact is normally closed. With the jumper in the *OPEN* position, the contact is normally open. Factory default: *CLOSED*.

LED Jumper	
Position	Condition
Open	LED off
Closed	LED on.

PULSE Jumper (J.PULSE)	
Position	Condition
Open	Maximum sensitivity
Closed	Minimum sensitivity

Relay Jumper	
Position	Condition
Open	Open normally
Closed	Normally closed

7. Test

When turned on, the sensor LEDs will flash at 0.5 s intervals for 1 minute. This time is necessary to stabilize the amplification circuit of the PIR sensor.

Perform the walk test, with movements transverse to the sensor's detection rays, observing the indication of the LEDs:

» **LEDs on:** there was detection.

Note: when there is detection, the sensor LEDs will light and remain on for a period of 3 seconds.

Warranty

It is expressly stated that this contractual warranty is granted under the following conditions:

Customer name:

Customer Signature:

INVOICE NO.

Date of purchase:

Model: Serial number:

Reseller:

1. All parts, pieces and components of the product are guaranteed against any manufacturing defects, which may present, for a period of 1 (one) year - this being 90 (ninety) days of legal warranty and 9 (nine) months of contractual warranty -, counted from 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 warranty includes the express exchange of products with manufacturing defects. If no manufacturing defect is found, but a defect (s) arising from improper use, the Consumer shall bear these expenses.
2. The installation of the product must be done 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 value of the product.
3. Once the defect is found, the Consumer must immediately contact the nearest Authorized Service listed in the list provided by the manufacturer - only these are authorized to examine and remedy the defect during the warranty period provided herein. If this is not respected, this guarantee will lose its validity, as it will be characterized as a violation of the product.
4. In the event that the Consumer requests home care, he / she should go to the nearest Authorized Service for consultation of the technical visit fee. If the need to remove the product is found, the resulting expenses, such as transportation and security of the product's return, are under the responsibility of the Consumer.
5. The warranty will totally lose its validity in the event of any of the following cases: a) if the defect is not a manufacturing defect, but caused by the Consumer or by third parties outside the manufacturer; b) if the damage to the product comes from accidents, disasters, agents of nature (lightning, floods, landslides, etc.), humidity, voltage in the electrical network (overvoltage caused by accidents or excessive fluctuations in the network), installation / use not in accordance 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 loss of data, therefore, it is recommended, if applicable for the product, that the Consumer regularly back up the data contained in the product.
7. Intelbras is not responsible for the installation of this product, and also for any attempted fraud and / or sabotage of its products. Keep the software and applications updates used up to date, if applicable, as well as the necessary network protections to protect against intrusions (hackers). The equipment is guaranteed against vices within its normal conditions of use, and it is important to be aware that, as it is an electronic equipment, it is not free from fraud and scams that may interfere with its correct functioning.
8. Properly dispose of your product after its useful life - deliver it to collection points for electrical and electronic products, at an authorized Intelbras technical assistance center or consult our website www.intelbras.com.br and support@intelbras.com.br or (48) 2106-0006 or 0800 7042767 for more information.
9. LGPD - General Law for the Protection of Personal Data: Intelbras does not access, transfer, capture, or perform any other type of treatment of personal data from this product.

These being the conditions of this complementary Warranty Term, Intelbras S / A reserves 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

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

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