intelbras

User manual

IVP 3000 MW

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IVP 3000 MW
Passive infrared sensor

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

The passive infrared sensor IVP 3000 MW with triple technology, combines the technology and microwave detection with the detection of passive infrared rays with intelligence, adopting an advanced signal analysis, being able to avoid several types of false alarms in dangerous environments.

Care and security

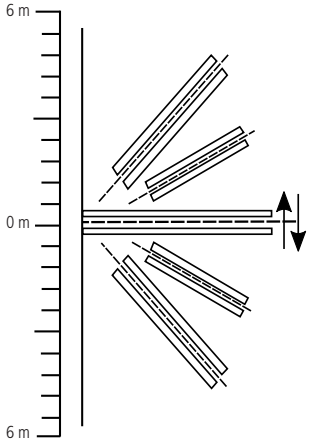
» Follow all instructions in the manual for assembling and installing the product.

» 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.

» This sensor is intended for indoor environments.

» Do not touch the surface of the infrared (PIR) sensor. If necessary, use a soft cloth for cleaning.

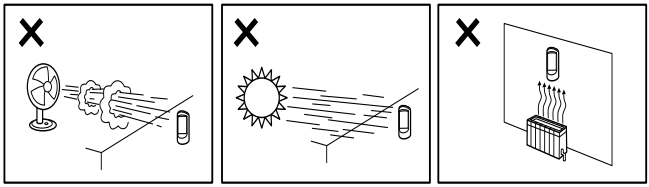
» The sensor must be installed where a possible intruder is easily detected, that is, where a person performs movements transverse to the sensor's detection beams when entering the environment. The suggested installation height varies from 2.1 m to 2.2 m, depending on the installation environment. Check the installation instructions.



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).

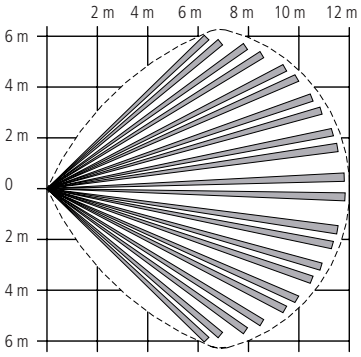
» Do not use the sensor in areas with sudden changes in temperature, near air conditioners, heaters, cooling fans and ovens. Do not expose the sensor to direct sunlight.



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

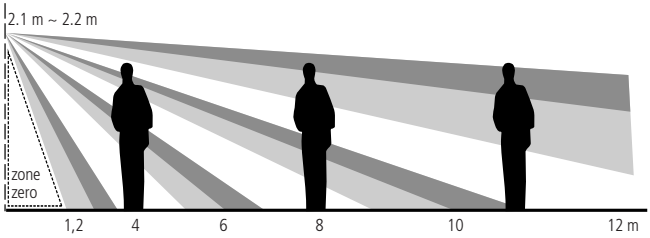
» For your security, test the product and systems at least once a week. This is necessary due to changes in environmental conditions, electrical or electronic interruptions and violations. Take all necessary precautions for the security and protection of your property.

Scan (top view)



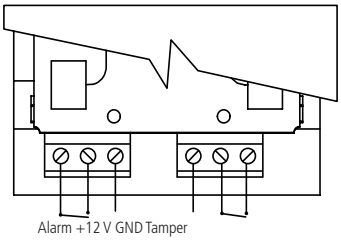
Top view

Detection range (side view)



Side view

Terminal Block



- » **ALARM:** sensor output
- » **GND:** negative source
- » **+12 V:** positive source
- » **Tamper:** anti-tamper switch

Summary

1. Technical specifications

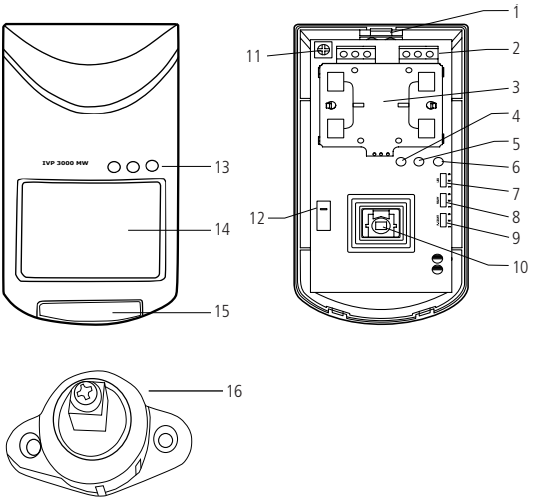
Operating voltage	9 ~16 Vdc
Operating Current	≤30 mA
Detection Angle	110°
Detection Range [1]	12 m ± 20%
Detection method	MW and PIR
Sensor	Dual low noise PIR
MW antenna	High frequency GaAs: FET
MW Frequency	10.525 GHz
Detection pulse (P. Count)	1P or 2P optional
Installation height	2.1 m ~ 2.2 m
Operating temperature	-10 °C to + 50 °C
Start Time	60s
Relay opening time	6s
Alarm output	NO / NC
Tamper switch	NC without voltage output, 28 Vdc, 100 mA
Dimensions (W × H × D) ± 2 mm	65 × 130 × 54 mm

[1] *The microwave detection range can be influenced by the environment.*

2. Characteristics

- » MCU processing.
- » Automatic pulse counting.
- » Doppler + Power analysis.
- » X-Band flat antenna.
- » Adjustable microwave detection range.
- » Automatic temperature compensation to reduce false alarms.
- » Optional NC (Normally Closed) / NO (Normally Open) contacts for different alarms.
- » Detection in the crawl zone (zone *Zero*).

3. Product



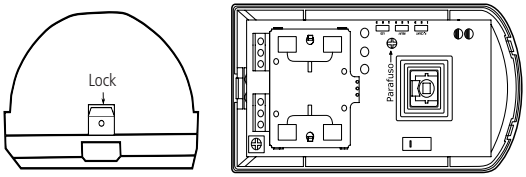
1. Wire outlet.
2. Terminal Block.
3. Microwave module (anti-tamper).
4. *Yellow* LED.
5. *Red* LED.
6. *Green* LED.
7. LED jumper.
8. RELAY jumper
9. P. COUNT jumper.
10. *PIR* sensor.
11. LED Microwave adjustment.
12. Tamper switch (anti-tamper).
13. LED indicators.
14. Front lens.
15. Crawling zone lens (look down).
16. Articulator.

4. Installation

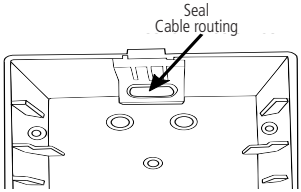
The IVP 3000 MW sensor should only be installed indoors.

4.1. Installation without using the articulator

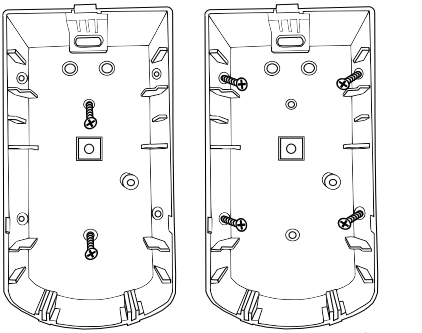
1. Open the sensor through the lock at the bottom and remove the board by loosening the screw;



2. Tear the seal at the top of the back cover for cable passage;

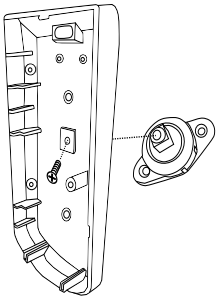


3. For installation directly on the wall, drill the holes in the positions indicated on the back cover. For installation in the corner of the wall, drill the holes in the positions indicated on the side of the back cover;



4.2. Installation without using the articulator

1. Tear the seal located on the back cover and attach the articulator;



2. Pass the cables through the holes in the back cover and fix the sensor to the wall, make sure that the back cover is parallel to the wall;
3. Snap the board back into the back cover and connect the cables to the terminal block, as indicated in the item *Terminal Block;*

5. Basic Operations

When powered on, all LEDs will flash constantly, indicating that the sensor has activated the self-test. After 60 seconds, all LEDs will go out and the sensor will enter operating mode. Perform the walk test, with movements transverse to the sensor's detection rays, observing the LED indications.

- **Green:** infrared activation.
- **Yellow:** microwave activation.
- **Red:** infrared and microwave activation (alarm).

The *LED* jumper is used to control the LED indication without interfering with the detector. With the jumper in the *ON* position, the LEDs *will* remain on whenever detected. With the jumper in the *OFF* position, the LEDs will *remain* off even if detected. Factory default: *LED on.*

The Pulse *jumper* controls the pulse count to activate the alarm. With the jumper in position *1P* the sensor provides maximum sensitivity (1P one pulse). With the jumper in the *2P* position the sensor provides detection suitable for environments with high incidence of EMI and RFI interference (2P two pulses). Factory default: *jumper in position 1P.*

The *Relay* jumper controls the state of the relay contact. With the jumper in the *NC* position, the contact is *normally closed.* With the jumper in the *NO* position, the contact is *normally open.* Note.: Factory default: *NC* (Normally closed).

The microwave adjustment potentiometer determines the microwave detection range. Adjust it according to the needs of the environment.

LED Jumper

Position	Condition
ON	LED *On*
OFF	LED *Off*

P. Count jumper

Position	Condition
1P	1 pulse Maximum sensitivity
2P	2 Pulses minimum sensitivity (EMI and RFI)

Relay Jumper

Position	Condition
NC	Normally closed
NO	Normally Open

6. Homologation

This equipment is not entitled to protection against harmful interference and may not cause interference to duly authorized systems. This is a product approved by Anatel, the approval number can be found on the product label, for consultations, visit the website: *sistemas.anatel.gov.br/sch.*

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' 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.
8. After its useful life, the product must be delivered to an authorized Intelbras service center or directly disposed of in an environmentally appropriate manner to avoid environmental and health impacts. If you prefer, the battery, as well as other unused Intelbras brand electronics, can be disposed of at any Green Eletron collection point (waste management facility to which we are associated). If you have any questions about the reverse logistics process, please contact us at (48) 2106-0006 or 0800 704 2767 (Monday to Friday 8am to 8pm and Saturdays 8am to 6pm) or via -mail support@intelbras.com.br.

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.

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Where to buy? Who installs it? 0800 7245115

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