



intelbras XAS 4010 SMART Wireless Aperture Sensor User Guide

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User manual
XAS 4010 SMART

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XAS 4010 SMART Wireless Aperture Sensor

XAS 4010 SMART
Sensor

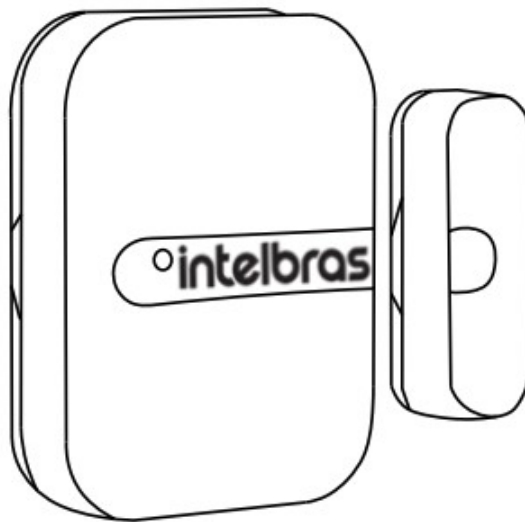
Congratulations, you have just purchased a product with Intelbras quality and safety.

The XAS 4010 Smart wireless aperture sensor was developed by Intelbras with 100% digital technology. The sensor is mounted in SMD components and can be installed in most products that work at the same frequency

and modulation available on the market.
Operates on FSK or OOK modulation.

Care and safety

- Follow all instructions in the manual for assembling and installing 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.
- This product is intended for indoor and semi-open environments.
- Respect the GAP distance (distance between the sensor and the magnet).
- Confirm that the installation location is stable and appropriate.
- Wireless communication technology, when exposed to environments with high power radiation, may suffer interference and have its performance impaired, for example: locations close to TV towers, AM/FM radio stations, amateur radio stations, etc.
- Do not expose the XAS 4010 Smart Magnetic Sensor to direct sunlight, rain or moisture.



- Avoid installing the sensor directly under metal surfaces so that there are no changes in its operating characteristics.
- For your safety, test the product and systems at least once a week. This is necessary due to changing environmental conditions, electrical or electronic interruptions, and tampering. Take all necessary precautions for the safety and security of your property.

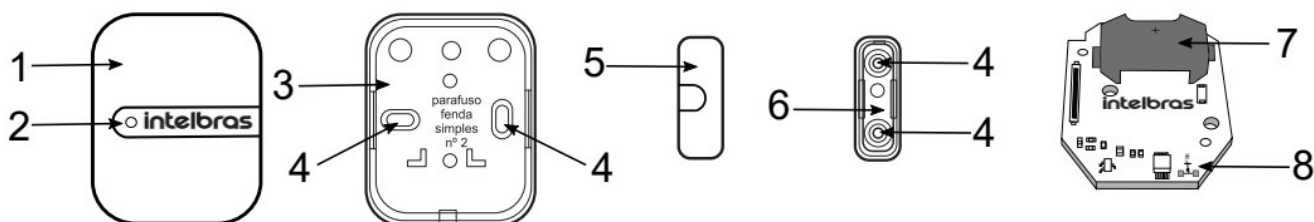
Technical specifications

Operating voltage	Battery 3 V Lithium, model CR2032
Operating current	900 nA
Trigger indication	Red LED
RF range	100 meters without hurdles
Transmission frequency	433.92 MHz
Detection	Reed Switch SMD
Modulation	Supervised (FSK) or unsupervised (OOK)
Baud rate OOK	2 KBps (open source)
Anti jamming	Against external interference
Installation environment	Internal and Semi-open
Opening gap	12 mm \pm 10%
Closing gap	6 mm \pm 10%
Operating Temperature	-10°C to 50°C
Dimensions (W x H x D)	Sensor: 37x46x11 mm
	Magnet: 11 x 31 x 9mm
Gross weight	0,06 Kg
Net weight	0,04 Kg

Characteristics

- Low battery indication;
- Supervised (FSK) or unsupervised (OOK);
- Long-lasting lithium battery;
- SMD reed switch;
- Transmission frequency 433.92 MHz.

Product

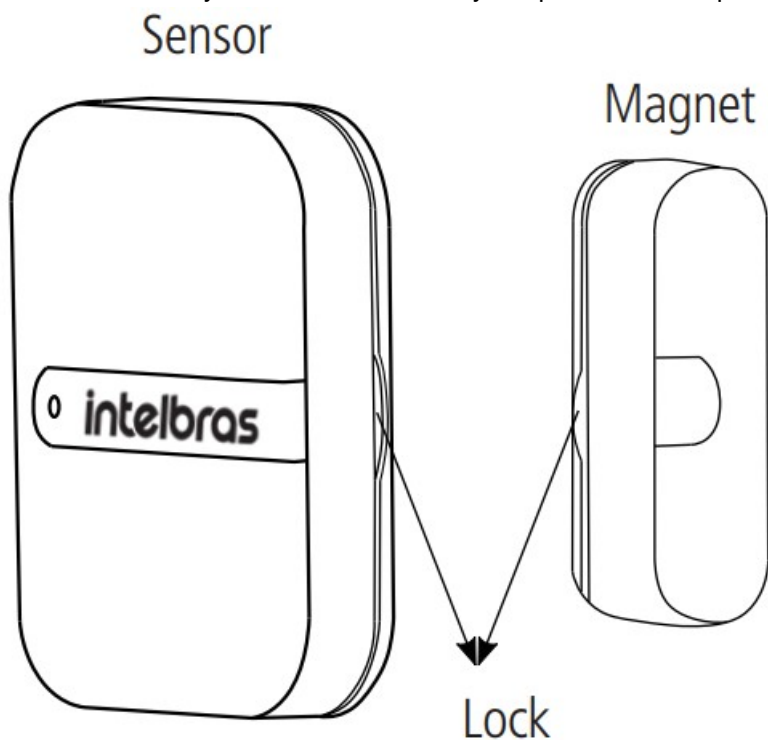


1. Sensor cover
2. Light conductor (LED)
3. Sensor base
4. Screw hole for fixing
5. Magnet cover

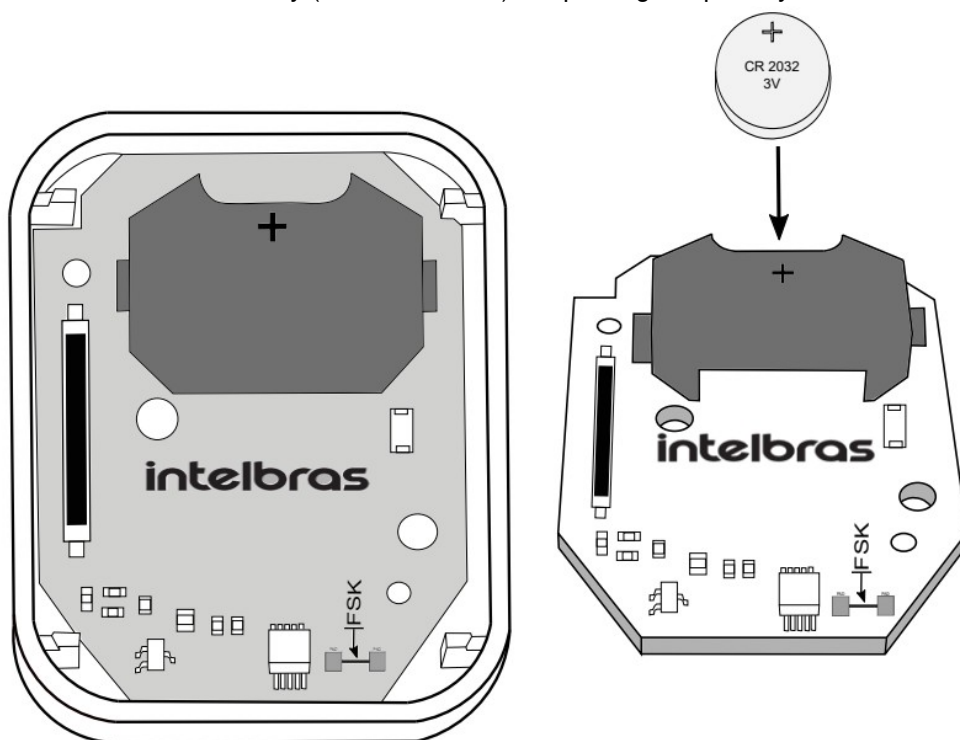
6. Magnet base
7. Battery contact
8. OOK/FSK track

Sensor opening

To access the XAS 4010 Smart board to change the battery or change the FSK/OOK supervision, just remove the cover through the latch, it is not necessary to use tools. This way the plate will be exposed and ready for handling.



Remove the board, then insert the battery (model CR2032), respecting the polarity.



Registering the XAS 4010 Smart sensor

To register the XAS 4010 Smart sensor code in the alarm control panel, follow the procedure below:
Insert the LITHIUM 3 Vdc battery – CR 2032, then type the command to register the wireless device in the alarm

center that will be used (Check the procedure in the alarm center manual). Then perform a shot moving the magnet away from the sensor, if the sensor is in a door for example, just open it observing if the LED will light up. If the LED lights up, it indicates that there was a trip or transmission occurred, if the LED does not light up, check the battery.

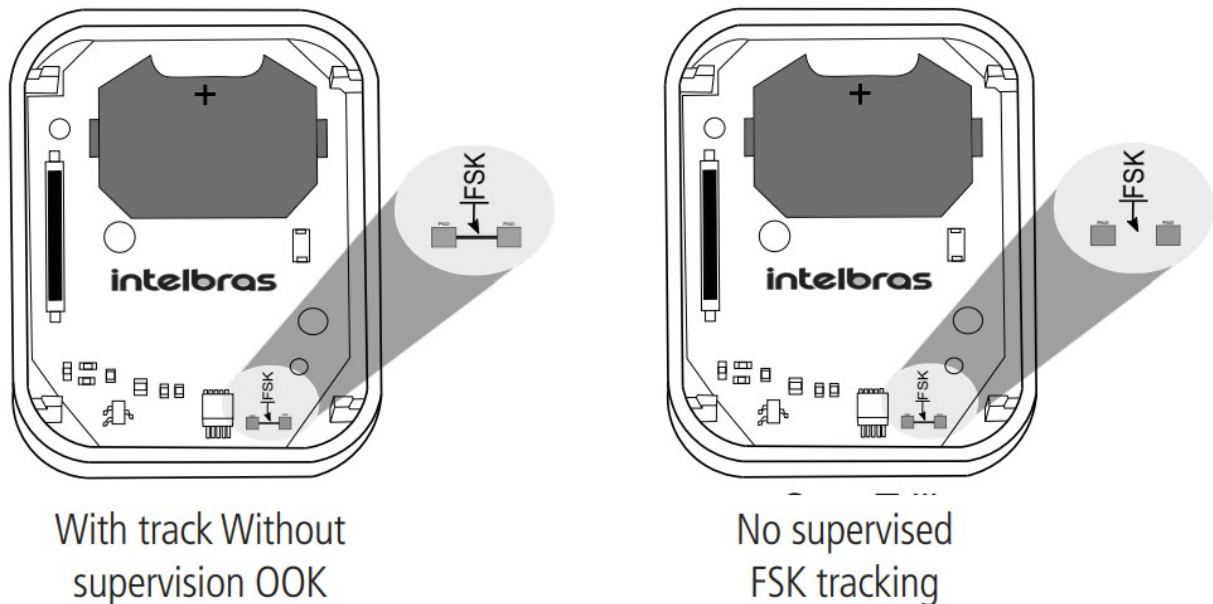
- **Low battery sensor:** the XAS 4010 Smart has a battery level meter, which measures the voltage and notifies you of the best time to change it, if the sensor flashes the LED quickly in the opening, it indicates low battery level. If the alarm center is Intelbras, the sensor low battery warning will be indicated on the product panel.

The sensor sends low battery warning in both OOK and FSK modulation.

XAS 4010 Smart Sensor supervision setup

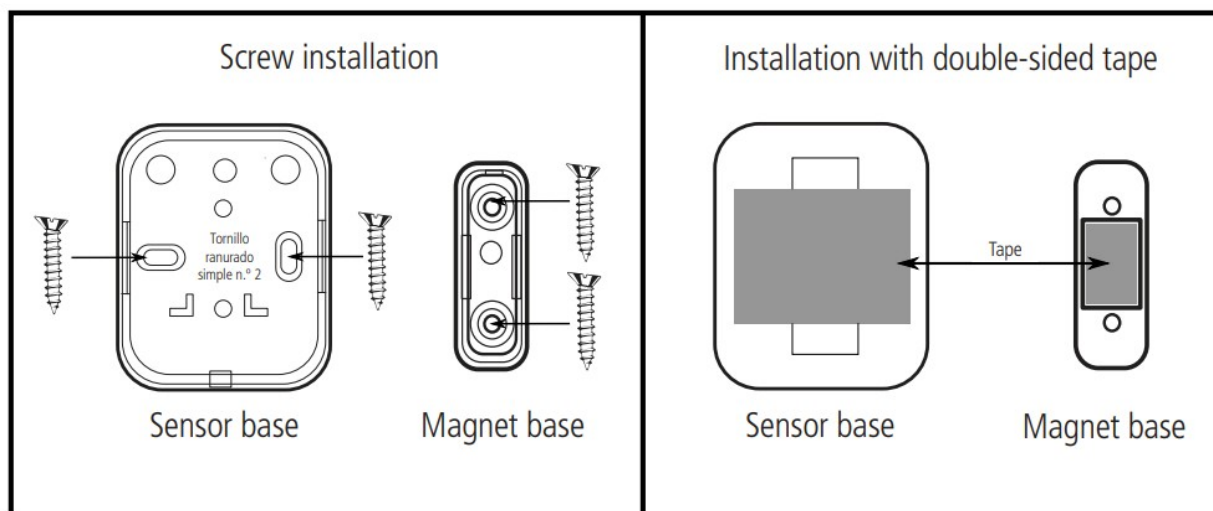
The XAS 4010 Smart sensor allows you to select between supervised (FSK) and unsupervised (OOK) modes. To switch between supervision modes, simply remove the battery from the sensor, open the OOK/FSK track indicated on the board (and then replace the battery); once this is done, the sensor will operate in supervised mode (FSK). Changing from supervised mode (FSK) to unsupervised mode (OOK) is also simple, just remove the battery from the sensor, close the OOK/FSK track again and replace the battery, once this is done the sensor will return to operating in non-supervised mode. supervised (OOK). Factory default: unsupervised (OOK).

In FSK modulation, the sensor transmits opening and closing and periodically supervises the sensor.



Installation

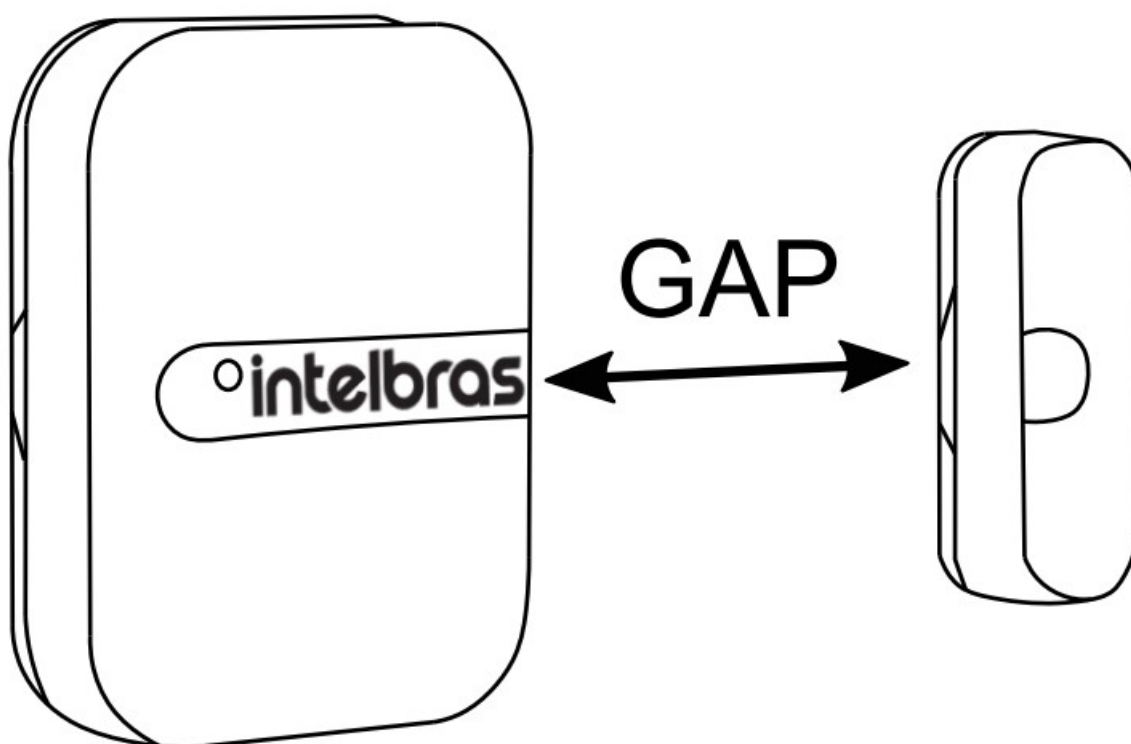
The XAS 4010 Smart sensor can be fixed using a double face or cover. If chosen as an option with a double-sided fit, clean the surface that will be in direct contact with the fit and then place on the product base. To use the lid, just open the sensor and use the holes to pass the lid located on the base of the product, as shown in the following figure.



Important: check if the GAP distance (distance between the sensor and the image) is within the specification, to avoid unwanted triggering in the event of any vibration in the structure in which the sensor is installed.

Note: the type of surface where the sensor is installed may influence the distance from the GAP.

- GAP opening: 12 mm $\pm 10\%$
- GAP closure: 6 mm $\pm 10\%$



To close the sensor, check the pin located on the base, it must be positioned on the same side as the battery, after positioning the base, just press it for locking, there is only one way to close the sensor, check image 01 To close the magnet, just position the base and press it, image 02.

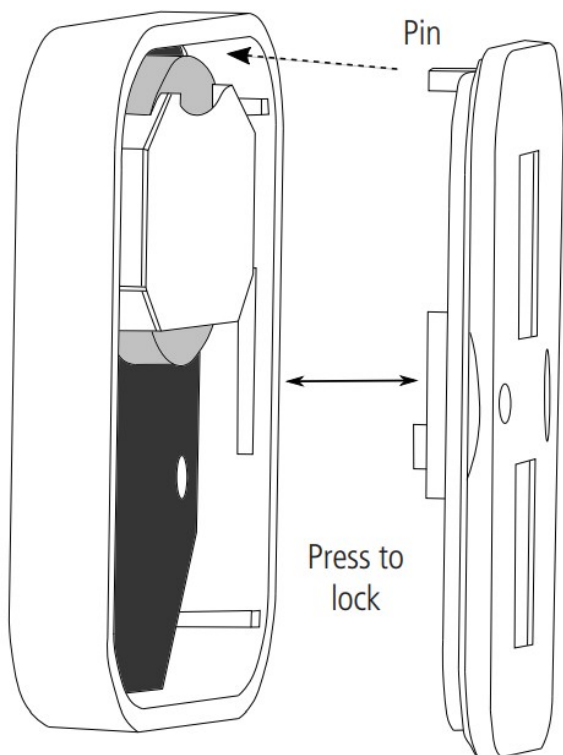


Figure 01

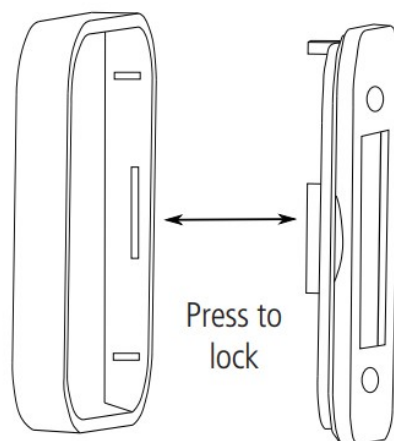
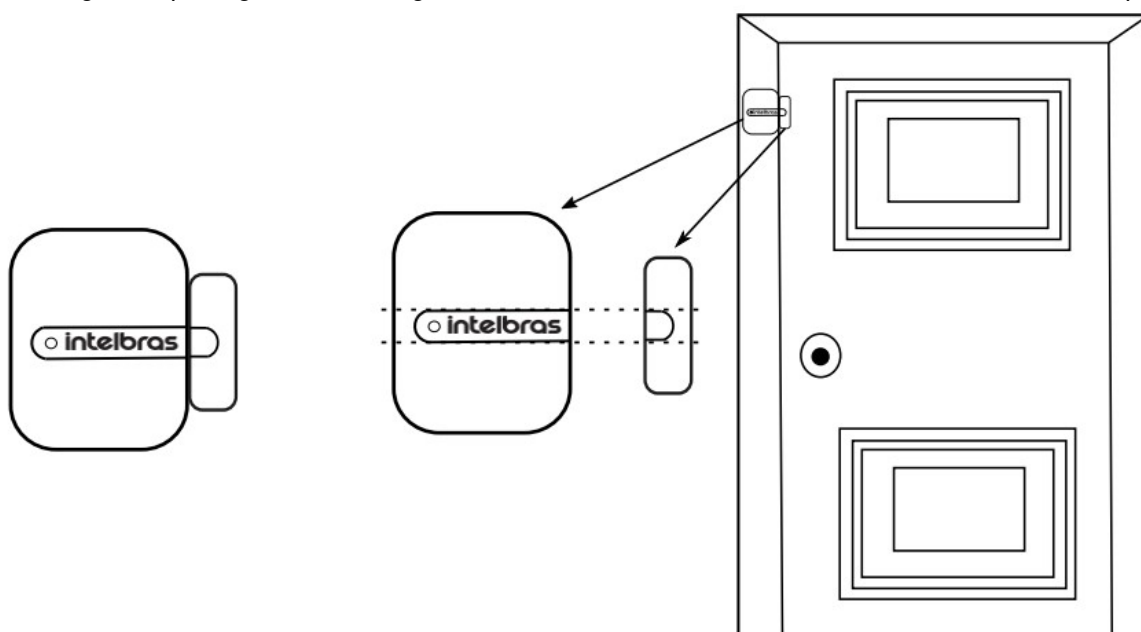


Figure 02

The sensor must be installed according to the images below, with the magnet aligned with the sensor body and with the smallest possible distance between them, so that the magnet is in contact with the magnetic field sensor.

Note: for closing and opening the SMD magnetic field sensor, the distances from the GAP must be respected.



Battery

Use only quality batteries, sized correctly for the device. The battery model must be CR2032, using one (1) battery per transmitter.

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



This product has an internal battery. After their useful life, batteries must be delivered to an authorized Intelbras technical assistance or directly carry out the environmentally appropriate final destination, avoiding environmental and health impacts. If you prefer, the battery, as well as other unused Intelbras brand electronics, can be discarded at any Green Eletron collection point (electronic waste manager to which we are associated). If you have any questions about the reverse logistics process, please contact us by calling (48) 2106-0006 or 0800

Test

Once installed and in operation, check that the control panel is receiving the sensor opening information, in case of any failure, it is necessary to reposition the sensor or the control panel. Be sure to take all precautions and follow installation recommendations to get the best operating performance from your product.

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 can be found on the product label, for queries visit the website: <https://www.gov.br/anatel/pt-br>.

Warranty term

This contractual warranty is granted under the following conditions:

Customer name:

Customer signature:

Invoice number:

Purchase date:

Version:

Serial Number:

Dealer:

1. All parts, pieces and components of the product are warranted against any manufacturing defects it may present for a period of 1 (one) year, this period being 3 (three) months of legal warranty plus 9 (nine) months of contractual warranty, counted from the date of purchase of the product by the Consumer, as stated in the purchase invoice for the product, which is an integral part of this Term nationwide. This contractual warranty includes the express exchange of products that have a manufacturing defect. If no manufacturing defect is found, but instead any defect arising from inappropriate use is found, the Consumer shall bear these expenses.
2. The installation of the product must be done in accordance with the Product Manual and/or Installation Guide. If your product requires installation and configuration by a trained technician, look for a suitable and specialized professional, whereas the costs of these services are not included in the value of the product.
3. Once the defect is found, the Consumer shall immediately contact the Authorized Service nearest to 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 warranty will lose its validity, as it will be characterized as a violation of the product.
4. In the event that the Consumer requests home service, he/she should go to the nearest Authorized Service for consultation of the technical visitation fee. If the need to withdraw the product is found, the resulting expenses such as transportation and security for the round trip of the product are under the responsibility of the Consumer.
5. The warranty will totally lose its validity in the event of any of the following hypotheses: a) if the defect is not a manufacturing defect, but caused by the Consumer or by third parties unknown by the manufacturer; b) if damage to the product is arises from accidents, damages, 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 manual This warranty does not cover data loss, therefore, it is recommended, if this is the case of the product, that the Consumer regularly backs up the data contained in the product.

6. Intelbras is not responsible for the installation of this product, as well as for any attempted fraud and/or sabotage of its products. Keep up-to-date software and applications updates, if applicable, as well as the required network protections to protect against intrusions (hackers). The equipment is warranted against defects 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.

With these as the conditions of this complementary Warranty Term, Intelbras SA reserves the right to change the general, technical and aesthetic features of its products without prior notice.
All images in this package are illustrative.

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talk to us

Customer Support:  (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

Produced by: Intelbras S/A – Indústria de Telecomunicação Eletrônica Brasileira

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CNPJ 82.901.000/0016-03

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References

-  [CHAT Intelbras](#)
-  [Fórum Intelbras - Índice](#)
-  intelbras.com.br

- [🇧🇷 Anatel — Agência Nacional de Telecomunicações](#)
- [User Manual](#)