



User manual

XAS 4010 SMART



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.
- » Confirm that the installation location is stable and free from flickering.
- » 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 etc.
- » For your safety, test the product and systems at least once a week. This is necessary due to changing environmental conditions, low battery. Take all necessary precautions for the safety and protection of your property.
- » In order to protect a door or window, it is recommended to use only one XAS 4010 SMART sensor, thus making the installation more economical and free from interference during signal transmission..
- » Avoid installing the sensor directly under metal surfaces so that there are no changes in its operating features.



Notice!

It is important to note that this product has the function of transmitting information to the alarm panel whenever an event occurs on the device (opening a door, window etc.), therefore, its use should be recommended for environments with medium circulation of people or medium daily transmissions. If you use it in environments with large circulation and consequently a large number of transmissions, your battery may be compromised. Here is some information for proper usage guidance

Number of daily transmissions	OOK- operating months (unsupervised)	FSK – operating months (supervised)
20	43	12
50	25	10
100	16	8
200	9	5
300	6	4
400	5	3
500	4	3

Note: for the best performance of XAS Smart and XAS Smart Black, Intelbras recommends the use of good quality batteries.

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1. Technical specifications

Power supply	3 VDC, lithium battery included
Operating temperature	-10 to +50 °C
Detection	SMD Reed Switch
Trigger indication	Red LED
Transmission frequency	433,92 MHz
OOK/FSK transmission rate	2 KBps (open source)
Modulation	OOK / FSK
Encoder	HT6P20
RF range	100 meters in barrier-free area
Gross weight (Kg)	0,06
Net weight (Kg)	0,04
Dimensions (W x H x D)	37 × 46 × 11 mm
Anti-jamming	Immunity against malicious signals.

2. Features

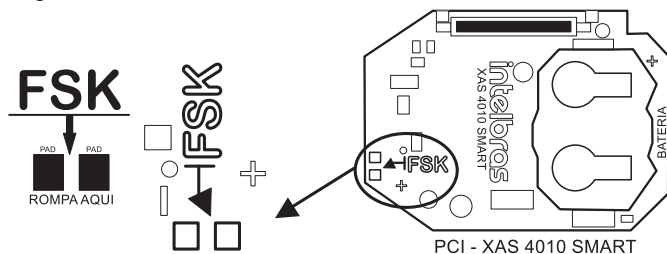
- » 2 types of modulation (OOK and FSK)
- » Low battery indication
- » Long-life lithium battery
- » SMD Reed switch
- » Transmission frequency 433.92 MHz - HT6P20

3. Modulation configuration

The XAS 4010 SMART sensor comes from factory with OOK modulation. To change the modulation from OOK to FSK, simply remove the battery from the sensor, cut the track (FSK) indicated on the board by a small arrow (figure A) and then return the battery to its original position. Once this is done, the sensor will start operating in the FSK mode.

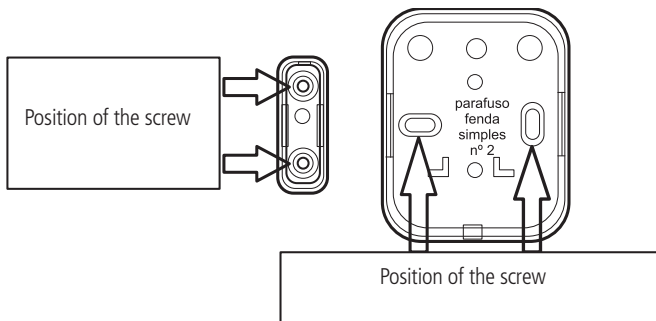
Changing the FSK mode to OOK mode (factory default) is also simple, just remove the battery from the sensor, reconnect the two pads of the FSK track indicated on the board by the arrow and return the battery to its original position. Once this is done, the sensor will resume operating in OOK mode.

Image A



4. Installation

Open the sensor by removing the back cover, insert the battery, then choose the position where the sensor will be installed. After chosen, use screws or double-faced tape for its fixation. If you are going to use the double-faced tape, stick it on the back cover of the sensor, then fix the two parts in the place you want to protect, observing the correct position of the sensor (image 01).



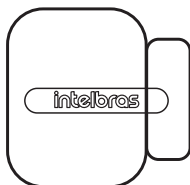


Image 2

The sensor must be positioned as shown in the figure, so that the magnet is in contact with the SMD Reed Switch.

Note: for closing and opening the SMD Reed Switch, some average distances must be respected.

- » **Reed Switch opening:** move the magnet away at an average distance between 8 mm and 12 mm.
- » **Closing the Reed Switch:** bring the magnet closer to an average distance between 6 mm and 10 mm.

5. Configuration

Register the sensor code in the alarm panel to be used (Check the procedure in the alarm panel manual). In order for the sensor to transmit its code, trigger a trip by moving the magnet away from the sensor; if the sensor is on a door, for example, just open it observing if the red LED will light up. If the LED lights up, it indicates that there was a trigger (transmission occurred); if not, check the battery.

Low battery sensor: XAS 4010 Smart has a battery level meter; if it is critical, this information will be sent to the alarm panel, in addition to flashing the red LED quickly as an indication of the low battery level. The sensor transmits the battery level in both modulations, OOK and FSK. In FSK, the sensor transmits opening, closing and also monitoring of the sensor (open or closed) every 30 minutes.

6. Homologation



2749-15-0160

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 queries, visit the website: sistemas.anatel.gov.br/sch.

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
6. 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.
7. 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.
8. After its useful life, the product must be delivered to a technical assistance authorized by Intelbras or directly to the environmentally appropriate final destination, avoiding environmental and health impacts. If you prefer, the battery, as well as other unused Intelbras electronics, can be disposed of at any Green Eletron collection point (electronic waste manager to which we are associated). In case of doubt about the reverse logistics process, please contact us by phone +55 48 2106 0006 or 0800 7042767 (Monday to Friday, 8am-8pm / Saturdays, 8am-6pm) or by email suporte@intelbras.com.br

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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Produced by: Intelbras S/A – Indústria de Telecomunicação Eletrônica Brasileira
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CNPJ 82.901.000/0016-03 – www.intelbras.com.br

01.22
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