intelbras XAS Smart Wireless Magnetic Openning Sensor User Manual

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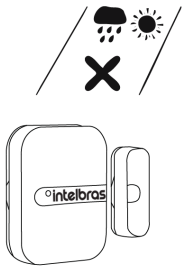
Product Information

The XAS Smart / XAS Smart Black wireless aperture sensor is a product developed by IntellBeam with 100% digital technology. It is designed to be installed in various products that operate at the same frequency and modulation available on the market. The sensor works in FSK or OOK modulation and features a low battery sensor.

XAS Smart and XAS Smart Black Sensor
Congratulations, you have just purchased a product with IntellBeam quality and safety.
The XAS Smart / XAS Smart Black wireless aperture sensor was developed by IntellBeam with 100% digital technology. The sensor is mounted on SMD components and can be installed in most products that work at the same frequency and modulation available on the market. It works in FSK or OOK modulation and has a low battery sensor.

Care and safety

- Follow all instructions in the manual for assembling and installing the product.
- LGPD – Data processing by IntellBeam: IntellBeam 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 radiations, 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 Smart and Xsan Smart Black magnetic sensors to direct sunlight, rain and 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

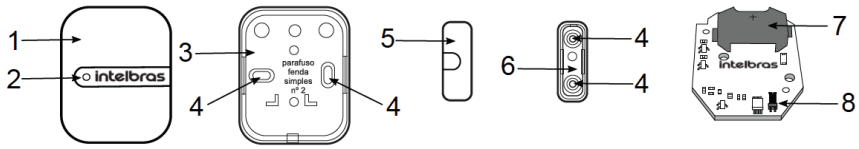
Operating voltage	Battery 3 V Lithium, model CR2032
Operating current	900 nA
Trigger indication	Yellow LED
RF range	100 meters without hurdles

Transmission frequency	433.92 MHz
Detection	Magnetic Field SMD Sensor
Modulation	OOK / FSK
Baud rate OOK	2 KBps (open source)
Anti jamming	Against external interference
Installation environment	Internal and Semi-open
Opening gap	37 mm ± 20%
Closing gap	27 mm ± 20%
Operating Temperature	-10 °C to 50 °C
Dimensions (W × H × D)	Sensor: 37 × 46 × 11 mm
	Magnet: 11 × 31 × 9 mm
Gross weight	0,06 Kg
Net weight	0,04 Kg

Characteristics

- Supervised (FSK) or unsupervised (OOK);
- Long-lasting lithium battery;
- SMD magnetic field sensor;
- Transmission frequency 433.92 MHz.

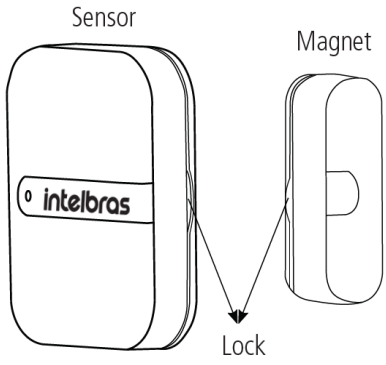
Product



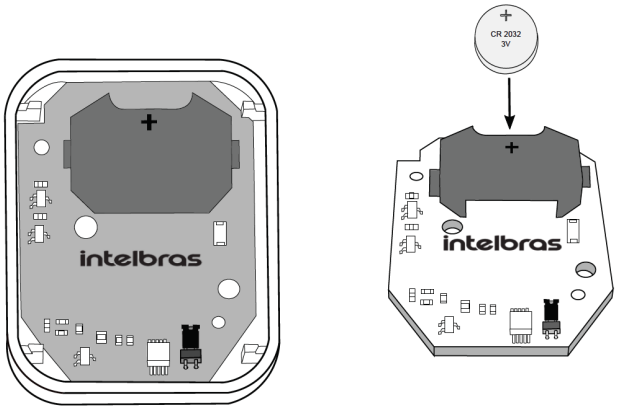
1. Sensor cover
2. Light conductor (LED)
3. Sensor base
4. Screw hole for fixing
5. Magnet cover
6. Magnet base
7. Battery contact
8. Jumper OOK/FSK

Sensor aperture

To access the XAS Smart and XAS Smart Black 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.



Enrolling the XAS Smart and XAS Smart Black sensor

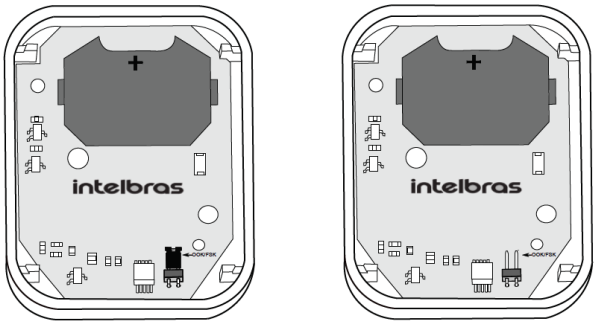
To register the XAS Smart and XAS Smart Black sensor code in the control panel, follow the procedure below: Insert the LITHIUM 3 Vdc battery – CR 2032, then type the command to register the wireless device in the alarm center that will be used (Check the procedure in the alarm center manual). Then perform 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 Smart/XAS Smart Black 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 a low battery level. If the alarm center is IntellBeam, 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 Smart and XAS Smart Black sensor supervision setting

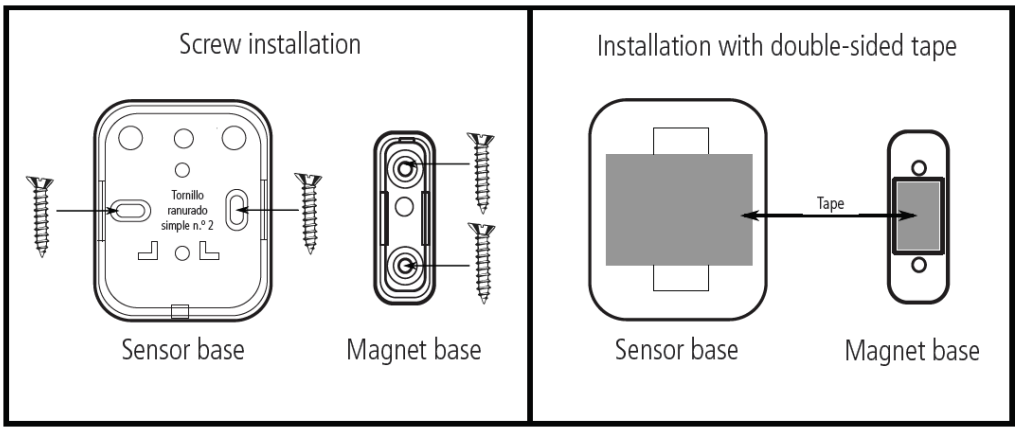
The XAS Smart/XAS Smart Black sensor allows you to select between supervised (FSK) and unsupervised (OOK) modes. To switch between supervision modes, simply remove the battery from the sensor, open the OOK/FSK jumper indicated on the board (and then replace the battery), after which the sensor will operate in supervised mode (FSK). Changing from supervised mode (FSK) to non-supervised mode (OOK) is also simple, just remove the battery from the sensor, close the OOK/FSK jumper terminals again and replace the battery, after which the sensor will return to operating mode. unattended mode (OOK). Factory default: unsupervised (OOK)
In FSK modulation, the sensor transmits opening and closing and periodically super-vises the sensor.



With Jumper OOK No Jumper FSK

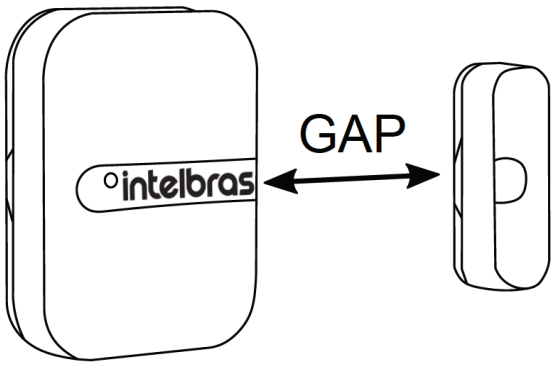
Installation

The XAS Smart / XAS Smart Black sensor can be attached using double-sided tape or a screw. If the option with double-sided tape is chosen, clean the surface that will be in direct contact with the tape and then stick it to the base of the product. If you are going to use screws, just open the sensor and use the holes for passing the screw located at the base of the product, as shown in the following figure.



Important check if the GAP distance (distance between the sensor and the mag-net) is within the specification, to avoid unwanted triggering in case of any vibration in the structure where the sensor is installed.
Note the type of surface where the sensor is installed may influence the distance from the GAP.

- Opening GAP: 37 mm ±20%
- Closing GAP: 27 mm ±20%.



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.

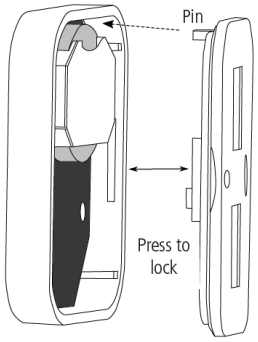


Figure 1

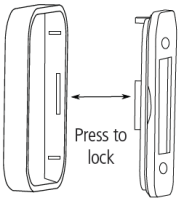
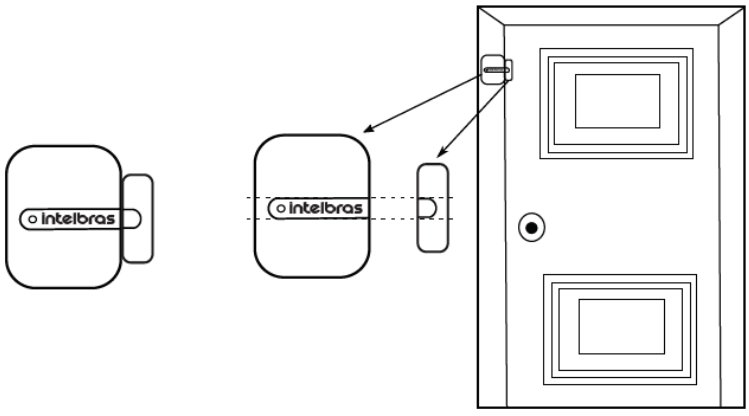


Figure 2

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.

This product has an internal battery. After their useful life, batteries must be delivered to an authorized IntellBeam 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 IntellBeam brand electronics, can be discarded at any Green Elderton 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 704 2767 (Monday to Friday from 8 am to 8 pm and Saturdays from 8 am to 6 pm) or by e-mail -mail **support@intelbras.com.br**.

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 Anatol, the approval number can be found on the product label, for queries, visit the website: **sistemas.anatel.gov.br/sch**.

Documents / Resources

	**intelbras XAS Smart Wireless Magnetic Openning Sensor** [pdf] User Manual XAS Smart, XAS Smart Wireless Magnetic Openning Sensor, Wireless Magnetic Openning Sensor, Magnetic Openning Sensor, Openning Sensor, Sensor

References

- **CHAT Intelbras**
- **Fórum Intelbras - Índice**
- **SCH**
- **intelbras.com.br**