



User's Manual

IVA 3015 X



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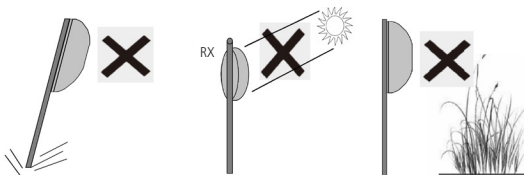
Anti-crush sensor

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

The IVA 3015 X anti-crush sensor has a hardness that makes it suitable for the most diverse installation scenarios. It can be installed indoors, semi-open and outdoors without degradation of function. This product was developed to avoid false shots in applications where the environment is external and with high fog density. Due to the circuit developed for this sensor, the response to a detection happens quickly and effectively, in order to avoid crushing. Read the product introductory information carefully for the correct use of the sensors.

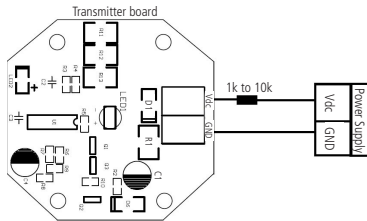
1. Care and safety

- » 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.
- » Install the sensor in a stable location that is not subject to flickering.
- » Do not install the receiver with the lens facing the sun.
- » Do not install the sensor in locations where beam obstruction may occur. Make sure there are no plants, branches or other objects that might obstruct the sensor beam.

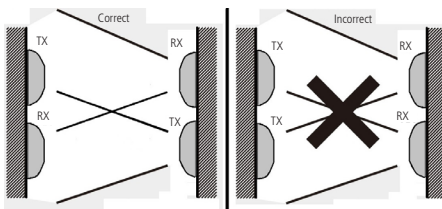
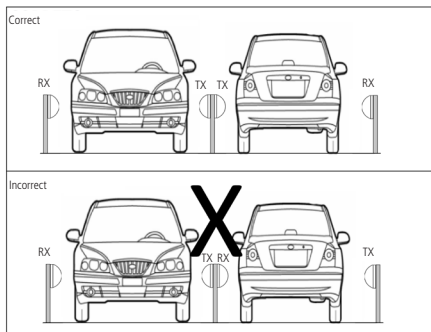


- » Make sure that the cable entry side is facing downwards to prevent water from entering.
- » To clean the outside of the sensor, use a damp cloth, never use chemicals.
- » Size the power supply and power cord correctly.
- » Do not leave the cable exposed to the sun, rain or moisture.
- » Do not install the sensor above the recommended distance.
- » Install the sensor at a distance greater than or equal to 50 cm from the floor surface.
- » Check that the sensor supply is between 12 and 24 Vdc, if the gate controller board does not supply enough voltage to supply the sensor or if it is unstable, it is recommended to use a power supply only for the product.
- » If the sensor is installed on a smooth or polished floor, it may not fire due to the reflection of the infrared beam on the floor or walls. To avoid this situation, connect a 1k to 10k resistor in series with the positive wire (Vdc) of the transmitter (TX).

Note.: after connecting the resistor, make sure that there is no reflection, cutting the beam in several positions between the TX and the RX. The shorter the distance, the higher the resistor value.



- » If you need to install more pairs in conditions similar to the one shown below, install the transmitter (TX) and receiver (RX) so that one pair does not influence the other.



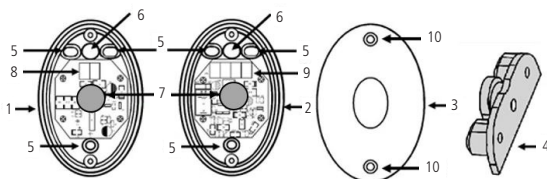
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1. Technical specifications

Supply voltage	12 ~ 24 Vdc	
Consumption current	≤50 mA @ 12 Vdc	
Range	Internal	30 m
	External	15 m
Alarm output	Configurable output NO/NC	
	1 A @ 24 Vdc	
	1 A @ 127 Vac	
Relay opening time	1s or 2,5s ± 10%	
Response time	50ms	
Indication of Alignment	Alignment LED (green)	
Trigger indication	Trigger LED (red)	
Outdoor sunscreen	Yes	
Operating Temperature	-10 °C to + 55 °C	
IP protection	IP55	
Color	Black	
Dimensions (W × H × D)	50 × 29 × 75,35 mm	

2. Product



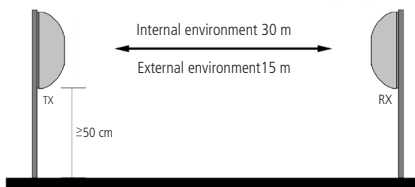
- | | |
|--------------------------|---|
| 1. Transmitter | 2. Receiver |
| 3. Front cover | 4. Sealing rubber |
| 5. Screw hole for fixing | 6. Cable routing |
| 7. Lens | 8. TX terminal block |
| 9. RX terminal blocks | 10. Screw hole for fixing the front cover |

3. Installation

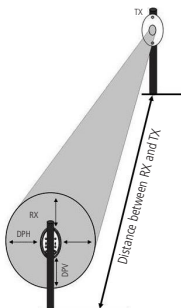
1. Before starting the installation, it is necessary to define the installation height and the distance of the IVA 3015 X sensor. We recommend that this sensor be installed at a height greater than or equal to 50 cm from the floor and the maximum distance between the TX and the RX must be 15 m for external environment and 30 m for internal environment;

Note.: in outdoor environments with a high rate of fog or rain, install the sensor at a maximum of 50% of the specified distance.

For correct installation, follow the procedure.



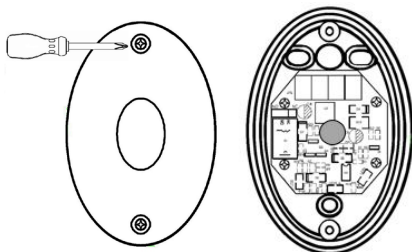
2. If there is more than one source of infrared transmission (TX) at the installation site, obey the vertical protection distance (VPD) and the horizontal protection distance (HPD), according to the table below, so that the receiver (RX) do not suffer interference;



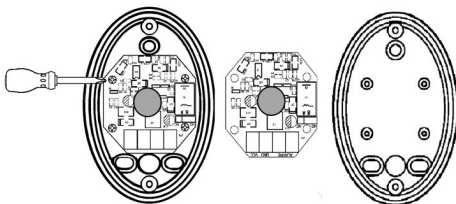
Distance between RX and TX

	5 m	10 m	15 m
Horizontal protection distance (HPD)	0,8 m	1,6 m	2,4 m
Vertical protection distance (VPD)	1,1 m	1,6 m	2,2 m

3. Open the sensor by removing the screws on the front of the cover;

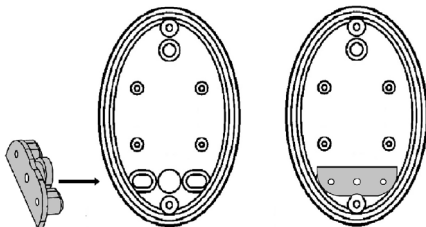


4. Remove the base plate;

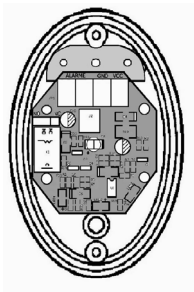


5. Using a screwdriver, insert the sealing rubber into the three holes located at the bottom of the base. The straight part of the rubber should face the side of the plate;

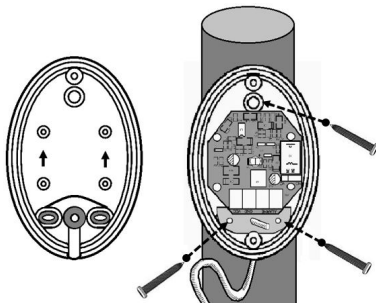
Note.: the use of this rubber is important to prevent water and insects from entering the sensor.



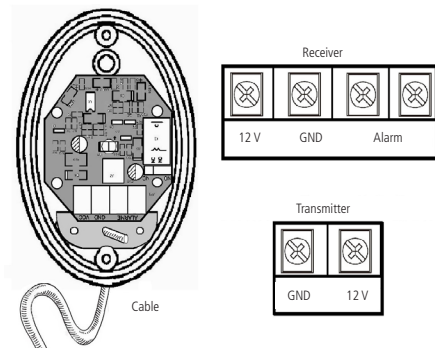
6. Attach the plate to the base again;



7. Secure the receiver and the transmitter using the three passage points of the screw located on the base of the product, at a height equal to or greater than 50 cm from the floor with the cable passage facing downwards, the indication arrows on the base must be facing top;



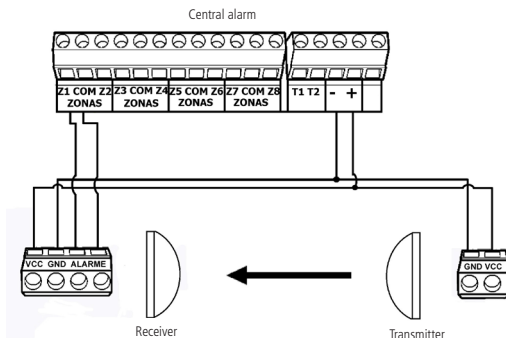
8. Pass the cable through the hole and connect to the terminal block;



9. Turn on the power obeying the polarity indicated on the receiver and transmitter plate (12 ~ 24 Vdc), this sensor has protection against polarity inversion;
10. Connect the alarm wires to the gate controller board or to the zone entrance of the control panel;

Note.: check the connection method in the manual of the gate being used or of the control panel.

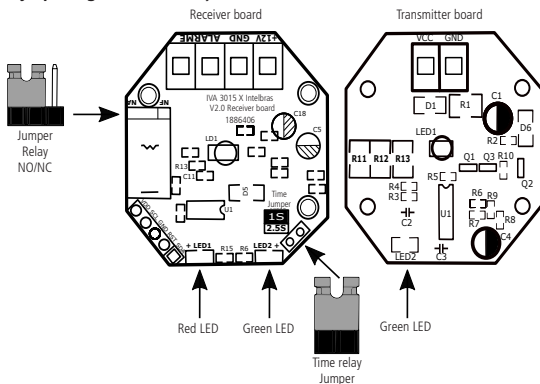
The following is an example of connection to an Intelbras alarm panel.



- After installation, confirm the correct operation by cutting the beams, obstruct the beam with your hand or some screen and check if the receiver trips, observing the alarm signal by the red LED and by relay activation. The relay output (alarm) can be adjusted according to the NC or NO application, and the opening time of the relay can be configured in 1s or 2.5s. In case of use with an alarm panel, it is recommended to use the time of 2.5s.

Relay output: Factory default NO.

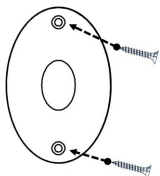
Relay opening time: 1s factory default.



	Status	Sign
Transmitter	Transmitting	Green LED on
	Alignment Ok	Green LED
Receiver	Improve alignment	Flashing green LED
	Alarm (sensor blocked)	Red LED on

- To close the sensor, just fit the front cover and place the closing screws.

Note.: the front cover has no side for closing the product.



Term of Warranty

It is expressed that this contractual warranty is granted according to the following conditions:

Customer name:

Customer's signature:

Tax Invoice No.

Date of Purchase:

Model:

Serial No.:

Retailer

1. All parts, pieces and components of this product are warranted against any manufacturing defects, which may arise within a period of 1 (one) year - being 90 (ninety) days of legal warranty and 9 (nine) months subject to contractual warranty - from the date when the Customer purchased the product, according to the product purchase tax invoice, which is an integral part of this Term throughout the Brazilian territory. This contractual warranty expressly includes the product exchanges in case of manufacturing defect. If no manufacturing defect is confirmed, but there is a failure due to improper use, the Customer shall bear any of these incurred expenses.
2. The product must be installed according to the Product Manual and/or Installation Guide. If your product requires to be installed and configured by a skilled technician, you should seek for a reliable and skilled professional, but the costs of such services are not included in the product price.
3. Once the defect is confirmed, the Customer shall contact immediately the nearest Authorized Service listed in the report provided by the manufacturer, they are the only professionals authorized to check and remedy the defect within the warranty term provided herein. If it is not observed, the warranty is void, characterized as product infringement.
4. Eventually, if the Customer requests service at home, he/she may contact the nearest Authorized Service to ask for fee quotation of a technical visit. If it is necessary to withdraw the product to be repaired, the incurred expenses such as transpor-

tation and insurance costs, including taking and return after repaired, are under responsibility of the customer.

5. The warranty will be entirely voided if any of the following cases occur: a) if the defect is not due to manufacturing, but caused by the Customer or by third parties foreign to the manufacturer; b) if the product damages are caused by accident, disasters, agents of nature (lightning, flooding, landslide, etc.), humidity, network voltage, over-voltage caused by accident or excessive network voltage fluctuations), installation/use in disagreement with the user's manual or due to natural wear of parts, pieces and components; c) if the product had suffered any effects of chemical, electromagnetic, electric or animal (insects, etc.) nature; d) if the product serial number was altered or erased; and e) if the appliance is flawed.
6. This warranty does not cover data loss, therefore, in case of a product, it is advisable to the Customer to regularly make secure backup of the product data.
7. Intelbras is not liable for the installation of this product, as well as eventual attempts of fraud and/or sabotage in their products. Keep software and applications up to date, and if necessary, the required network protections against intrusions (hackers). The equipment is warranted against defects under normal conditions of use, and it is important to bear in mind that, because it is an electronic equipment, it is not protected from attempts of frauds or misleading actions that may interfere in its correct operation,
8. After its useful life, the product must be delivered to an Intelbras authorized support service or perform environmentally proper final disposal in order to avoid environmental or health impacts. If you prefer, useless cells and batteries as well as other Intelbras branded electronic appliances may be disposed at any Green Eletron collection points (electro-electronic residues management company to which we are associated). If you have any questions about the reverse logistics process, contact us by phone (48) 2106-0006 or 0800 704 2767 (from Monday to Friday at 8 AM to 8 PM, and on Saturday at 8 AM to 6 PM) or via e-mail suporte@intelbras.com.br.

Also under these supplementary Term of Warranty, Intelbras S/A reserves the right to alter general, technical or aesthetics features without prior notice.

The manufacturing process of this product is not subject to ISO 14001 requirements.

All images in this manual are for illustrative purposes only.

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talk to us

Customer Support: (48) 2106 0006

Forum: forum.intelbras.com.br

Support via chat: intelbras.com.br/suporte-tecnico

Support via e-mail: suporte@intelbras.com.br

Customer Service: 0800 7042767

Where to buy? Who installs it? 0800 7245115

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