



## INSTALLATION INSTRUCTIONS

# STEALTH

Model **XJ-2035**

**Passive Infrared  
Motion Sensor**

Range 35' x 50'  
(11 m x 15 m)

The XJ-2035 passive infrared motion sensor from IntelliSense provides reliable detection coverage at an affordable price. The unit features a 35' x 50' detection pattern, RF and white light immunity, and a low 20 mA current draw.

The XJ-2035 is compact, attractive, easy to install and maintain. The unit can be mounted in almost any corner or ceiling corner **indoors**. In addition, a built-in adjustment slide makes it possible to adjust the range without relocating the sensor.

## FEATURES

- 35' x 50' range
- Dual element PIR
- Cover tamper switch
- Energized Form A alarm relay
- 9 - 14 VDC operation
- Built-in range adjustment
- Low 20 mA current draw at 12 VDC
- RF immunity
- Selectable PIR sensitivity
- Corner-mount installation
- Mirrored optics

## APPLICATIONS

The XJ-2035 is ideal for office and residential applications.

## MOUNTING LOCATION

The XJ-2035 is designed to be mounted in corners (**indoors**). If the application requires a wider detection pattern, two XJ-2035's can easily be mounted side-by-side on the wall.

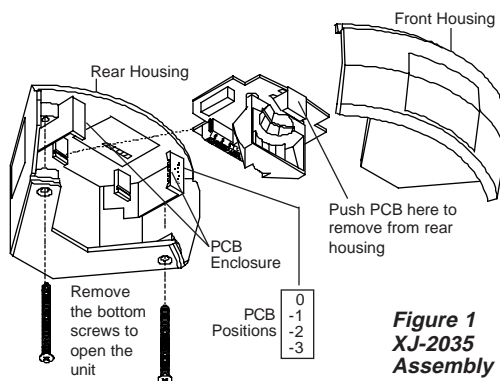
Make sure the sensor has a clear line of sight to the protected area. Infrared energy cannot penetrate solid objects. If the XJ-2035 is blocked, it will not alarm.

Aim the XJ-2035 toward the interior of the room, away from windows and heating/cooling sources. The unit can be mounted from 7 to 13 feet high.

## MOUNTING PROCEDURE

To mount the unit:

1. Remove the screws from the bottom of the front housing, and gently pull the front housing from the XJ-2035.



**Figure 1  
XJ-2035  
Assembly**

## MOUNTING PROCEDURE (Continued)

2. Remove the printed circuit board (PCB) by pushing the board in and down (at the same time). When the board is clear of the enclosure, gently pull it from the housing. Refer to Figure 1.
3. The wire knockouts are located on the top of the XJ-2035. Knock out the hole most appropriate for your application. Refer to Figure 2.
4. The mounting hole knockouts are located on corners of the rear housing (for corner mounting), on the top of the rear housing (for mounting to the corner of the ceiling) and on the back of the rear housing. Knock out the mounting screw holes appropriate for your application. Refer to Figure 2.
5. Use the rear housing as a template to mark the mounting surface.
6. Drill the holes, then secure the rear housing to the desired location.
7. Wire the unit (refer to the Wiring section), and return the PCB to the rear housing.
8. Replace the front housing and secure it in place with the housing screws. (Refer to Figure 1.)

**Note:** Do NOT overtighten screws when securing the housing.

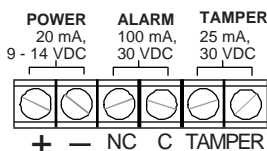
## WIRING

Terminal strip TB1 is located at the back edge of the PCB.

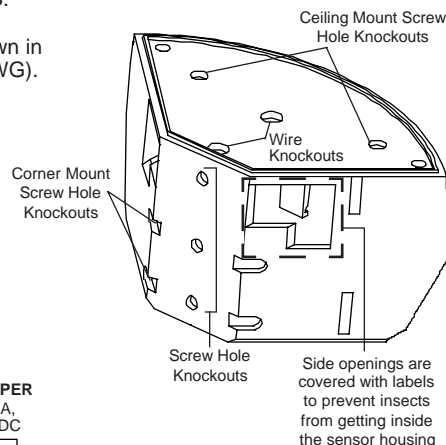
Wire the XJ-2035 as shown in Figure 3 (use 22 to 14 AWG).

**Note:** For proper wiring methods, refer to the National Electrical Code, NFPA 70.

**Figure 3 Wiring**



**Figure 2 Rear Housing**



## RANGE ADJUSTMENT

The XJ-2035 housing is designed for easy PCB adjustment. This allows for detection range adjustment without relocating the sensor.

To adjust the range:

- Refer to the XJ-2035 Range Chart on the right.
- At the left side of the chart, find the desired mounting height.
- On the top of the chart, find the required PCB position.
- The square where PCB position and mounting height intersect is the pattern distance.
- Press the PCB in and move it up or down until it "clicks" into the desired PCB position. (Refer to Figure 1.)
- Walk-test the sensor.

**XJ-2035 Range Chart**

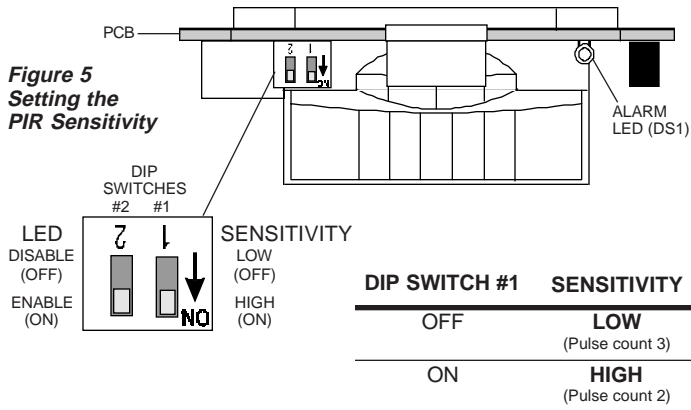
MTG HEIGHT	PCB POSITION			
	0	-1	-2	-3
7'	*	35'	25'	15'
8'	*	35'	25'	20'
9'	*	35'	20'	15'
10'	*	*	35'	20'
13'	*	*	*	30'

\*PCB Positions not recommended.

## PIR SENSITIVITY

The XJ-2035 is equipped with a dip switch for selecting PIR sensitivity. Refer to Figure 5 and the chart below to determine which sensitivity level is best suited for your application.

**Figure 5**  
**Setting the**  
**PIR Sensitivity**



## WALK-TEST

Apply power to the unit and let it warm up for at least three minutes. Begin walk-testing when the alarm LED (DS1) goes out.

Walk across the protected area at the ranges to be covered. Two to four normal steps across the pattern should make the alarm LED light. Wait for the alarm LED to go out, then continue walk-testing. When there is no motion in the protected area, the alarm LED should be off.

**Important:** The XJ-2035 should be tested at least **once each year** to ensure proper operation.

## ALARM LED ENABLE/DISABLE

To disable the alarm LED (DS1) after walk-testing the sensor, move DIP Switch #2 to the OFF position. Refer to Figure 5 and the chart on the right.

DIP SWITCH #2	LED
OFF	DISABLE
ON	ENABLE

## SPECIFICATIONS

**Range:**  
35' x 50' (11 m x 15 m)

**Alarm relay:**  
Form A (normally closed)  
100 mA, 30 VDC

**Power requirements:**  
9 - 14 VDC  
20 mA, 12 VDC

**Tamper switch:**  
Form A  
25 mA, 30 VDC

**RF immunity:**  
30 V/m, 10 MHz - 1000 MHz

**White light immunity:**  
up to 20,000 candlepower at  
10' (3 m)

**Operating temperature:**  
32° to 120° F (0° to 49° C)

**PIR fields of view:**  
7 long range zones  
4 intermediate  
2 lower

**PIR sensitivity:**  
DIP switch selectable pulse  
count; pulse count 2 (high) or  
pulse count 3 (low)

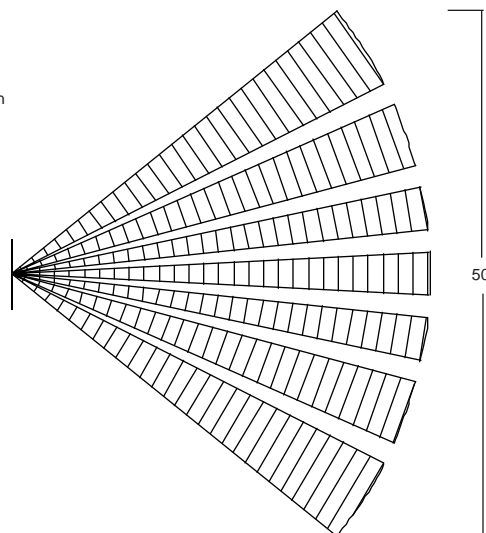
**Dimensions:**  
2-1/8" H x 4-3/8" W x 2-5/8" D  
(5.4 cm x 11.1 cm x 6.7 cm)

**Weight:**  
4 oz (113.4 g)  
Packaged Product is 5.5 oz  
(155.9 g)

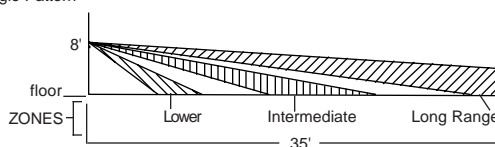
**Approvals/Listings:**  
UL listed

## PROTECTION PATTERNS

TOP VIEW  
Wide Angle Pattern



SIDE VIEW  
Wide Angle Pattern



**Important:** The XJ-2035 must be connected to a UL listed power supply or UL listed control panel capable of providing a **minimum of four hours** of standby power.

## LIMITED WARRANTY

Seller warrants its products to be in accordance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for **18 months** from the date stamp control on the product; or for products not having an IntelliSense Systems date stamp, for **12 months** from the date of original purchase, unless the installation instructions or catalogue sets forth a shorter period, in which case the shorter period shall apply.

Seller's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any part which is proved not in compliance with Seller's specifications or proves defective in materials or workmanship under normal use and service. This warranty is void if the product is altered or improperly repaired or serviced by anyone other than an authorized IntelliSense factory service center. Contact your local IntelliSense distributor for the service center location nearest you.

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Seller does not represent that its product may not be compromised or circumvented; that the product will prevent any personal injury or property loss by burglary, robbery, fire, or otherwise; or that the product will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained alarm system may only reduce the risk of burglary, robbery, or fire without warning, but it is not insurance or guarantee that such will not occur or that there will be no personal injury or property loss as a result. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THAT THE PRODUCT FAILED TO GIVE WARNING. However, if Seller be held liable, whether directly or indirectly, for any loss or damage arising under this Limited Warranty or otherwise, regardless of cause or origin, Seller's maximum liability shall not in any case exceed the purchase price of the product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against Seller.

This warranty replaces all previous warranties and is the only warranty made by IntelliSense on this product. No increase or alteration, written or verbal, of the obligation of this warranty is authorized.



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Rev C

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