



XIR200H

INDOOR PASSIVE INFRARED DETECTOR FOR INTRUSION ALARM SYSTEMS

The XIR200H Professional Series PIR detector is especially suited for indoor applications.

Digital signal processing (DSP) and a dual pyroelectric PIR element provide the XIR200H with a perfect combination of high sensitivity and an ultra-low false alarm rate.

The powerful combination of PIR digital signal processing and the latest extremelystable signal amplification and filtering technology allows this device to respond efficiently to intrusion in the protected area and to deliver superior catch performance and precision.

DSP technology provides temperature compensation for perfect operation in the protected area

The XIR200H is suitable for a vast range of residential and commercial applications.

Trouble-free configuration allows easy installation with various brands of intrusion control panels with diversified EOLR (balance resistance). This is the result of the configurable line balance option which can be set by inserting the required EOL resistors directly into the EOL connectors on-board the device.

(MAIN FEATURES)

The main features of the XIR200H are:

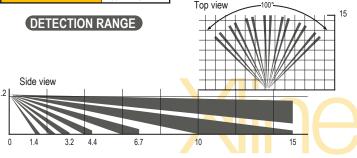
- · Digital analysis of signals
- · Detection range 15m
- Detection angle 100°
- Bypassable alarm LED

- Automatic temperature compensation
 End Of Line resistors
- · Sensitivity adjustment · White light immunity
- · Pulse count · Anti-tamper and anti-dislodgement switches

TECHNICAL SPECIFICATIONS

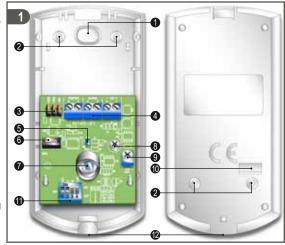
Operating supply voltage	from 9 to 16V		
Supply voltage	13.8V 		
Stand-by current draw	13mA		
Maximum current draw	15mA		
Sensor type	digital dual PIR		
Alarm pulses	from 1 to 4		
Intrusion alarm output	N.C., 28V ,		
	100mA max		
Alarm relay pulse duration	5s		
Tamper output	N.C., 28V ,		
	100mA max		
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Environmental conditions	from -10 to +55°C,
	≤93%
Security grade	2
Environmental class	
Detection range (max)	15m
Detection angle	100°
Installation method	wall mount
Installation height	2.2m
Size (HxLxD)	120x60x44mm
Weight	77g



GENERAL VIEW

- 1) Wire-entry
- 2) Mounting screw locations
- 3) EOL resistor connectors
- Terminal board
- 5) Alarm LED 6) Anti-opening tamper
- 7) PIR sensor
- 8) PCB retaining screw 9) Sensitivity
- trimmer 10) Anti-snatch
- tamper 11 Configuration DIP switch
- 12) Cover retaining screw location



OPERATING PRINCIPLES

- On first 12V power up, the LED will blink and the detector will initialise the auto-test phase.
- After approximately 10 seconds the detector will stabilise and become operational and the LED will go Off. The microswitch 4 on the DIP switch controls alarm display on the LED.

Note: The microswitch 4 influences the LED only, and in no way influences the functionality of the detector

- · If motion is detected in the protected area, the LED will go On and the alarm contact will open. After that the alarm signal will be active for 5 seconds at least.
- The microswitches 3 and 4 on the DIP switch are for alarm pulse number (from 1 to 4).
- The temperature in the protected area influences the performance of the detector. The trimmer on-board the PCB will allow you to adjust detection sensitivity:
- clockwise (+) increases the sensitivity (maximum 15 m)
- anticlockwise (-) decreases the sensitivity (minimum 3 m)
- · Any changes to the DIP switch configuration or any adjustments to detection sensitivity will be signalled by three fast blinks on the device LED.

INSTALLATION

- 1. Choose a suitable mounting location.
- 2. Remove the retaining screw and detector cover.
- 3. Remove the wire-entry and wall-plug knockouts, pull the wires through the wire entry and, using wall plugs, attach the mounting plate to the wall.
- 4. Insert the EOL resistors on the connectors depending on the requested balancing.
- 5. Complete the connections on the terminal board.
- 6. Configure the microswitches on the DIP switch.
- 7. Adjust the sensitivity of the PIR sensor.
- 8. Replace the detector cover and tighten the retaining screw.

Notes

- · Recommended installation height: 2.2m.
- · Do not drill in the vicinity of electrical wiring or plumbing, etc.
- The detector should be located in place that is far from sources of interference, such as: reflective surfaces, direct air flow, air-conditioning systems, windows, steam, oil vapour, infrared sources, power lines and appliances which may cause temperature changes (heaters, ovens, refrigerators, etc.).
- Do not blind the field of detection of the sensor, even partially.
- The alarm LED should be located over the lens.

CONNECTORS

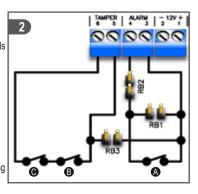
- +12V (1) Positive power supply
- -12V (2) Negative power supply

ALARM (3-4) - Alarm signal output terminals

TAMPER (5-6) - Tamper signal output

RB1 - RB2 - RB3 - EOL resistor connectors

- A Alarm signal contact (N.C. during standby)
- B Open-tamper signal contact (N.C. during standby)
- C Snatch-tamper signal contact (N.C. during standby)



BALANCING

The following balancing table refers to INIM Electronics s.r.l. anti-intrusion control panels, such as SmartLiving.

Dolonoing	EOL resistor connectors			Terminals to be	
Balancing	RB3	RB2	RB1	short-circuited	
Normally Closed	/	0 (shorted)	1	1	
Single balancing	/	6Κ8 Ω	1	1	
Double balancing	6K8 Ω	6Κ8 Ω	1	4-5	
Double-zone	/	0 (shorted) detector1	3K9 Ω detector1	3 detector1 - 4 detector2	
balancing		0 (shorted) detector2	6K8 Ω detector2		
Double-zone	/	0 (shorted) detector1	3K9 Ω detector1	4 - 5 detector1, 4 - 5 detector2	
balancing with EOL	/	3K9 Ω detector2	6K8 Ω detector2	6 detector1 - 3 detector2	
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DIP SWITCH

Microswitch	Function			
1	Not used			
	Alarm pulse number selection			
2	1	2	3	4
3	OFF	OFF	ON	ON
	OFF	ON	OFF	ON
	LED activation ON - LED working			
4				
	OFF - LED bypassed			

WARNING

- This detector must be installed in compliance with the laws and standards in force.
- Do not touch the electronic components as this may damage the circuits and reduce the reliability of the detector. If necessary, clean the detector with a soft cloth only.
- Do not install the detector in locations where there is risk of rapid temperature changes.
- · Install the detector strictly in accordance with the instructions in this leaflet.
- · The device should be tested on a regular basis.

DECLARATION OF CONFORMITY

Hereby, INIM Electronics s.r.l., declares that XIR200H is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC. The declaration of conformity may be consulted at: www.inim.biz/certifications



via Fosso Antico snc, fraz.Centobuchi 63076 Monteprandone (AP), Italy tel +39 0735 705007 fax +39 0735 734912

info@inim.biz www.inim.biz