Inim BIC100

Inim BIC100 Passive Infrared Ceiling Detector User Manual

Model: BIC100

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, setup, operation, and maintenance of the Inim BIC100 Passive Infrared (PIR) Ceiling Detector. Please read this manual thoroughly before attempting to install or operate the device to ensure proper functionality and safety.

2. PRODUCT OVERVIEW

The Inim BIC100 is a passive infrared ceiling detector designed for motion detection in various indoor environments. It offers 360-degree coverage, making it suitable for wide-area surveillance from a ceiling-mounted position.

Figure 1: The Inim BIC100 Passive Infrared Ceiling Detector. This image shows a white, circular device designed for discreet ceiling installation, featuring a central detection lens.

Key features include:

- 360-degree detection coverage.
- Effective detection diameter of 6 meters when installed at a height of 3.6 meters.
- Selectable alarm LEDs for visual indication.
- Adjustable alarm pulse duration.
- Automatic temperature compensation for stable performance across varying ambient temperatures.

3. INSTALLATION

Proper installation is crucial for the optimal performance of the BIC100 detector. This device is designed for ceiling mounting.

3.1 Safety Precautions

- Ensure power is disconnected before beginning installation.
- Installation should be performed by qualified personnel in accordance with local electrical codes.
- Avoid mounting the detector near heat sources, direct sunlight, or strong air currents (e.g., vents, fans) to prevent false alarms.

3.2 Mounting Location

Select a central location on the ceiling that provides the desired 360-degree coverage. For optimal performance, the recommended mounting height is 3.6 meters to achieve a 6-meter detection diameter.

3.3 Mounting Steps

1. Carefully open the detector housing.
2. Mark the drilling points on the ceiling using the detector's base as a template.
3. Drill holes and insert appropriate wall anchors if necessary.
4. Route the necessary wiring through the designated opening in the detector base.
5. Secure the detector base to the ceiling using screws.
6. Connect the power and alarm wires to the appropriate terminals as indicated in the wiring diagram (refer to the product's internal diagram, not provided in this manual).
7. Close the detector housing, ensuring it is securely fastened.

4. SETUP

After installation, configure the detector's settings to match your specific security requirements.

4.1 Alarm LED Configuration

The BIC100 features selectable alarm LEDs. These LEDs provide a visual indication when motion is detected. Consult the internal circuit board for jumpers or switches that control the activation or deactivation of these LEDs. Disabling the LEDs can make the detector more discreet.

4.2 Alarm Pulse Duration

The duration of the alarm pulse can be adjusted. This setting determines how long the alarm output remains active after motion detection. Refer to the detector's internal controls (e.g., potentiometers or dip switches) for adjusting this parameter. A longer pulse duration might be useful for certain alarm panel

configurations.

4.3 Automatic Temperature Compensation

The BIC100 is equipped with automatic temperature compensation. This feature ensures consistent detection sensitivity across a range of ambient temperatures, reducing the likelihood of false alarms due to temperature fluctuations. This feature typically operates automatically and does not require manual adjustment.

5. OPERATING INSTRUCTIONS

Once installed and configured, the Inim BIC100 operates automatically. When the security system is armed, the detector monitors its coverage area for infrared changes indicative of human movement.

- **Detection:** Upon detecting motion, the PIR sensor triggers its internal relay.
- **Alarm Output:** The triggered relay sends a signal to the connected alarm control panel, initiating an alarm sequence according to the panel's programming.
- **LED Indication (if enabled):** If the alarm LEDs are enabled, they will illuminate briefly to indicate detection.

The detector is designed for continuous operation when powered. No user interaction is required during normal operation.

6. MAINTENANCE

The Inim BIC100 detector requires minimal maintenance to ensure long-term reliability.

- **Cleaning:** Periodically clean the detector's lens and housing with a soft, dry cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the detector for any signs of physical damage or loose wiring.
- **Testing:** Regularly test the detector's functionality in conjunction with your alarm system to confirm it is operating correctly. Refer to your alarm system's manual for testing procedures.

7. TROUBLESHOOTING

If you experience issues with your Inim BIC100 detector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Detector not responding	No power; incorrect wiring; faulty unit.	Check power supply and wiring connections. Consult a professional if the issue persists.
False alarms	Heat sources; direct sunlight; strong air currents; pets; incorrect sensitivity.	Relocate detector away from heat/air sources. Ensure pets are not in the detection zone. Adjust sensitivity if possible (refer to product documentation).
No detection	Obstruction in detection zone; incorrect mounting height; faulty unit.	Clear obstructions. Verify mounting height and coverage area. Test the unit.

Problem	Possible Cause	Solution
LEDs not illuminating	LEDs are disabled; faulty LEDs.	Check LED configuration settings (jumpers/switches).

If troubleshooting steps do not resolve the issue, contact your installer or the manufacturer's technical support.

8. SPECIFICATIONS

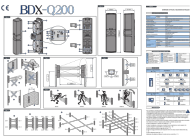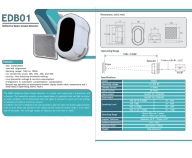| Model	BIC100
Manufacturer	Inim
Mounting Type	Ceiling mounting
Detection Technology	Passive Infrared (PIR)
Coverage Angle	360 degrees
Maximum Range	6 meters diameter (at 3.6m height)
Features	Selectable alarm LEDs, Adjustable alarm pulse duration, Automatic temperature compensation
Batteries Required	No
ASIN	B01CNOYYFM
First Available Date	February 21, 2020

9. WARRANTY AND SUPPORT

Specific warranty information for the Inim BIC100 detector is typically provided at the point of purchase or by the manufacturer. Please retain your proof of purchase for warranty claims.
For technical support, service, or further inquiries, please contact your authorized Inim dealer or the manufacturer directly. Contact details can usually be found on the product packaging or the manufacturer's official website.

10. OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were provided for this model.

Related Documents - BIC100

[Inim BDX-Q200 Photoelectric Quad Beam Detector Installation and Technical Guide](#)

Comprehensive guide for the Inim BDX-Q200 photoelectric quad beam detector, covering technical specifications, installation, alignment, troubleshooting, and safety warnings.

[INIM IFAMFFT 4-Line Emergency Telephone Module - Technical Manual](#)

Comprehensive technical manual for the INIM IFAMFFT module, a 4-line emergency telephone interface. Details specifications, wiring diagrams, compliance (Directive 2014/53/EU), warranty, and disposal information.

[Manual de Instalación Previdia Micro - INIM Electronics](#)

Manual de instalación detallado para el sistema de detección y extinción de incendios INIM Previdia Micro, cubriendo instalación, cableado, y configuración.

[INIM EDB01 Reflective Beam Smoke Detector | Features & Specifications](#)

Detailed information on the INIM EDB01 Reflective Beam Smoke Detector, including features, technical specifications, operating range, sensitivity levels, and installation considerations for effective fire detection systems.

[SmartLevel Power Supply Stations Installation and Programming Manual](#)

This manual provides comprehensive instructions for the installation and programming of INIM Electronics' SmartLevel power supply stations. It details product features, components, technical specifications, and connection procedures for integration into security systems.