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Seco-Larm SD-927PKC-NEQ

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Model: SD-927PKC-NEQ | Brand: Seco-Larm

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1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Seco-Larm SD-927PKC-NEQ Enforcer "No Touch" RTE (Request-to-Exit) IR Sensor Plate. This device utilizes infrared (IR) technology to detect hand motion, activating a built-in relay to open a door or activate another device without physical contact. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

2. PRODUCT OVERVIEW





Figure 1: Seco-Larm SD-927PKC-NEQ Enforcer "No Touch" RTE IR Sensor Plate. This image displays the stainless steel faceplate with the "NO TOUCH" and "EXIT" labels, and the central black infrared sensor with a circular indicator light.

The Seco-Larm SD-927PKC-NEQ is a single-gang, stainless steel sensor plate designed for request-to-exit applications. It features an infrared sensor that detects hand movement within a specified range, triggering a relay output. The device is suitable for various access control systems where a hygienic, no-touch exit solution is desired.

3. FEATURES

- **No-Touch Operation:** Activates with a simple hand wave, eliminating the need for physical contact.
- **Infrared (IR) Technology:** Reliable motion detection for activation.
- **Adjustable Sensor Range:** Detection distance can be adjusted up to 4 inches (10 cm).
- **Adjustable Trigger Time:** Output relay activation time can be configured.

- **LED Status Indicator:** Changes color (e.g., red to green) to indicate activation status.
- **Stainless Steel Faceplate:** Durable and suitable for various environments.
- **Single-Gang Design:** Fits standard electrical boxes for easy installation.
- **Relay Output:** Provides Normally Open (NO) and Normally Closed (NC) contacts for versatile integration.

4. SETUP & INSTALLATION

Safety Precaution: Before beginning installation, ensure that power to the installation area is disconnected at the circuit breaker to prevent electrical shock.

1. **Mounting Location:** Choose a suitable single-gang electrical box location, typically near an exit door, where the sensor will not be accidentally triggered.
2. **Wiring:** Connect the sensor plate to your access control system or door strike according to the wiring diagram provided with your product. Ensure correct polarity for power connections (12V DC). The sensor provides NO and NC relay contacts.
3. **Secure Mounting:** Carefully place the sensor plate into the electrical box and secure it using the provided screws. Avoid overtightening.
4. **Power On:** Restore power to the circuit. The LED indicator on the sensor should illuminate, indicating it is powered.
5. **Initial Test:** Wave your hand in front of the sensor to verify activation. The LED should change color, and the connected device (e.g., door strike) should activate.

Note: A detailed wiring diagram is typically included with the product packaging. Always refer to that diagram for specific connection instructions relevant to your system.

5. OPERATION

To operate the Seco-Larm SD-927PKC-NEQ sensor, simply wave your hand or an object within the detection range (typically 0.5 to 4 inches) of the infrared sensor. The sensor will detect this motion and activate its internal relay. This activation will trigger the connected device, such as an electric door strike or magnetic lock, allowing egress. The LED indicator will change color during activation, providing visual feedback.

6. ADJUSTMENTS

The sensor features two adjustable potentiometers, usually located on the back of the unit, for fine-tuning its performance:

- **Sensor Distance Adjustment:** This potentiometer controls the detection range of the IR sensor. Turn clockwise to increase sensitivity (longer detection distance) and counter-clockwise to decrease sensitivity (shorter detection distance). Adjust this to prevent unintended activations while ensuring reliable detection.
- **Trigger Time Adjustment:** This potentiometer sets the duration for which the relay remains activated after detection. Turn clockwise to increase the activation time and counter-clockwise to decrease it. Set this according to the requirements of your access control system and user flow.

Important: *Adjust these potentiometers carefully. Some units may have potentiometers that spin continuously without a hard stop. Make small adjustments and test thoroughly to achieve the desired performance. Avoid setting to extreme minimum or maximum positions if the sensor does not function correctly.*

7. MAINTENANCE

The Seco-Larm SD-927PKC-NEQ sensor requires minimal maintenance. To ensure optimal performance:

- **Cleaning:** Periodically wipe the sensor surface and faceplate with a soft, damp cloth. Avoid abrasive cleaners or solvents, as these can damage the finish or sensor lens.
- **Inspection:** Regularly check for any physical damage or loose connections.
- **Environmental Factors:** Ensure the sensor is not obstructed by objects or exposed to direct sunlight or strong artificial light sources that could interfere with its IR detection.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Sensor does not activate.	No power; incorrect wiring; sensor range too short; obstruction; faulty unit.	Check power supply and wiring. Adjust sensor distance potentiometer. Remove obstructions. Test with a known good power source.
Sensor activates continuously or too easily.	Sensor range too long; environmental interference (e.g., direct light); faulty unit.	Adjust sensor distance potentiometer to decrease sensitivity. Relocate sensor if possible to avoid interference.
Relay activation time is too short/long.	Incorrect trigger time setting.	Adjust trigger time potentiometer to the desired duration.
LED indicator not working.	No power; faulty LED.	Check power supply. If power is present and sensor functions, LED may be faulty (contact support).

9. SPECIFICATIONS

Model: SD-927PKC-NEQ
Brand: Seco-Larm
Material: Stainless Steel
Color: Silver
Power Source: DC
Voltage: 12 Volts
Item Weight: 6.4 ounces (181.4 grams)
Product Dimensions: 6 x 6 x 2 inches (15.24 x 15.24 x 5.08 cm)
Mounting Type: Wall Mount (Single-Gang)
Technology: Infrared (IR) Motion Sensor
Batteries Required: No

10. WARRANTY INFORMATION

The Seco-Larm SD-927PKC-NEQ Enforcer "No Touch" RTE IR Sensor Plate comes with a **1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims or detailed terms and conditions, please refer to the official Seco-Larm warranty policy or contact Seco-Larm customer support.

11. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or further information regarding your Seco-Larm product, please contact Seco-Larm customer support. You can typically find contact details on the manufacturer's official website or within the product packaging.

Seco-Larm U.S.A., Inc.

(Contact information such as phone number or website URL would typically be provided here by the manufacturer.)

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