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MENGQI-CONTROL 856211

MENGQI-CONTROL 856211 Request to Exit Motion Sensor User Manual

Model: 856211

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the MENGQI-CONTROL 856211 Request to Exit Motion Sensor. This device is designed to detect movement and trigger automatic door opening in access control systems.

Key Features:

- Supports Normally Open (NO) and Common (COM) connections.
- Designed to work in conjunction with a master control device or professional power unit.
- Maximum mounting height: 3-4 meters.
- Detection area: 4m (width) x 2m (depth).
- Utilizes 24G Microwave and microprocessor technology for reliable detection.
- Movement-based detection mode.
- High sensitivity and quick response for automatic door activation.
- Suitable for commercial, industrial, and high-traffic automatic access areas.

2. Safety Information

Please read and understand all safety instructions before installing or operating this device. Failure to follow these instructions may result in injury or damage to the product.

- Installation should be performed by qualified personnel only.
- Ensure power is disconnected before any wiring or maintenance procedures.
- Do not expose the device to extreme temperatures, moisture, or direct sunlight for prolonged periods.
- Verify correct wiring connections to prevent electrical hazards or damage to the sensor and connected equipment.
- This device is not designed for use with Normally Closed (NC) connections without an external module.

3. Package Contents

Verify that all items are present in the package:

- 1 x MENGQI-CONTROL 856211 Automatic Doors Motion Sensor (Black)
- 1 x Connection Cable
- 2 x Mounting Screws
- 1 x English User Manual (this document)

4. Setup and Installation

Follow these steps for proper installation of the motion sensor.

4.1 Unboxing and Initial Inspection

Carefully remove the sensor from its packaging. Inspect the device for any visible damage. If damage is found, do not proceed with installation and contact customer support.

4.2 Opening the Sensor Casing

To access the internal wiring terminals, the sensor casing needs to be opened. Use a small screwdriver to gently pry open the casing as shown in the video.

Your browser does not support the video tag.

Video 1: Demonstration of opening the sensor casing and connecting the cable. This video shows the physical process of disassembling the sensor to reveal its internal components and how to attach the provided connection cable.

4.3 Wiring Connections

The sensor supports Normally Open (NO) and Common (COM) connections. It is designed to trigger a relay in a master control device or professional power unit. Refer to the wiring diagram provided with your access control system for specific connections. The sensor's cable typically includes wires for power and signal output.

After connecting the wires, reassemble the sensor casing securely.

4.4 Mounting the Sensor

The sensor is designed for door mount applications. The maximum recommended mounting height is 3-4 meters. Position the sensor to ensure the detection area covers the desired exit path (4m width x 2m depth).



Image 1: Illustration of sensor detection patterns for various automatic door configurations. This image demonstrates how the sensor's detection field covers the area in front of swing, revolving, and sliding doors to ensure proper activation.



Image 2: A real-world example of the motion sensor installed above an automatic sliding door. This image provides a visual reference for typical sensor placement in an operational environment.

5. Operating Instructions

The MENGQI-CONTROL 856211 motion sensor operates by detecting movement within its specified range. When a person approaches the door, the sensor detects their presence and sends a signal to the connected access control system, triggering the door to open automatically.

5.1 Powering On

Once properly wired and mounted, apply power to the sensor and the connected access control system. The sensor will typically have an indicator light to show it is powered and functioning.

5.2 Detection and Activation

The sensor's detection mode is based on movement. When movement is detected within the 4m (width) x 2m (depth) area, the sensor's NO and COM terminals will connect, sending a signal to open the door.

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Video 2: Demonstration of the Request to Exit PIR Motion Sensor in operation. This video illustrates how the sensor detects a person approaching an exit and triggers the automatic door opening mechanism.

6. Maintenance

The MENGQI-CONTROL 856211 motion sensor requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Periodically clean the sensor's exterior with a soft, dry cloth to remove dust or debris that may obstruct detection. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check the mounting and wiring for any signs of wear, damage, or loose connections.
- **Environmental Factors:** Ensure the sensor is not exposed to conditions outside its operating parameters, such as extreme humidity or temperature fluctuations, which could affect its functionality.

7. Troubleshooting

If you encounter issues with your motion sensor, refer to the following troubleshooting tips:

- **Sensor Not Activating:**
  - Check power supply to the sensor and the access control system.
  - Verify all wiring connections are secure and correct (NO and COM).
  - Ensure the detection area is clear of obstructions.
  - Adjust sensor sensitivity if available (refer to specific model adjustments if applicable).
- **Door Opens Unintentionally:**
  - Check for environmental factors like strong air currents or vibrations that might trigger the sensor.
  - Ensure the sensor is mounted at the correct height and angle to avoid detecting unintended movement.
  - Reduce sensor sensitivity if possible.
- **Intermittent Operation:**
  - Inspect wiring for loose connections or damage.
  - Ensure stable power supply.

If problems persist after troubleshooting, contact customer support for assistance.

8. Specifications

Feature	Specification
Brand	MENGQI-CONTROL
Model Number	856211
Color	Black

Power Source	Corded Electric
Maximum Range	4 Meters
Mounting Type	Door Mount
Battery	Not included
Compatible Devices	Door Lock, Access Control System
Antenna Location	Walkway
Smart Home Compatibility	Not Smart Home Compatible
Frequency	24.13 GHz
Dimensions (D x W x H)	1.96"D x 4.33"W x 3.14"H
Manufacturer	SecureControl
Mfr Part Number	24g Sensor Detector

9. Warranty and Support

MENGQI-CONTROL is committed to providing quality products and support. For assistance with setup, wiring diagrams, or any operational issues, please contact our customer support team. We offer video guides and detailed wiring diagrams to facilitate system setup and provide live help until your system is fully operational.

For specific warranty information, please refer to the documentation included with your purchase or contact MENGQI-CONTROL customer service directly.

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