Miller Edge AW14-RF-K10

AW14-RF-K10 Wireless Air Wave Switch and Receiver Kit

Instruction Manual

Product Overview

The Miller Edge AW14-RF-K10 Kit provides a reliable and cost-effective wireless signaling solution for industrial applications. This kit includes an AW14-RF Transmitter, which is embedded within a switch enclosure, and an MRF-01 Receiver, designed to be wired to motor controls. The wireless design eliminates the need for hardwired coil cords or retracting reels, simplifying installation and improving system aesthetics. The system utilizes advanced coding combinations to prevent crosstalk, ensuring reliable operation in environments with multiple units.

Kit Components

The AW14-RF-K10 Kit includes the following primary components:

- **AW14-RF Transmitter:** A wireless air wave switch with an integrated transmitter.
- **MRF-01 Receiver:** A wireless receiver unit designed to connect to motor controls.



This image displays the two main components of the AW14-RF-K10 kit. On the left is the AW14-RF Transmitter, a gray, rectangular unit with a clear hose loop extending from it, and a label indicating "MillerEdge Model # AW14-RF". On the right is the MRF-01 Receiver, a black, translucent rectangular unit with multiple colored wires extending from one end and a label indicating "MODEL # MRF-01" and "LEARN BUTTONS" along with status indicators.

Setup and Installation

Proper installation is crucial for the optimal performance of the AW14-RF-K10 system. Follow these general guidelines:

1. **AW14-RF Transmitter Placement:** The air wave switch (transmitter) should be attached to a hose that is inserted into the existing weather stripping of the door. This allows the switch to operate as an effective sensing edge. The switch is enclosed in a molded ABS enclosure for durability.
2. **MRF-01 Receiver Wiring:** The MRF-01 Receiver must be wired directly to the motor controls of the system it is intended to operate. Refer to the specific wiring diagram provided with your product for correct connections.
3. **Pairing and Coding:** Each transmitter/receiver pair is capable of 5 billion coding combinations. This advanced coding negates the possibility of crosstalk with adjacent doors or similar systems, ensuring secure and independent operation.
4. **Sensitivity Adjustment:** The system features adjustable sensitivity to meet various design and operational requirements. Adjust the sensitivity as needed during initial setup to ensure reliable detection.
5. **Operational Range:** The wireless signal operates effectively at a distance of up to 100 feet, depending on environmental conditions. The switch is designed to work on doors up to 60 feet in length.

Note: For detailed wiring instructions and specific installation procedures, consult the full installation guide provided with your product.

Operating Principles

The AW14-RF-K10 system operates on the principle of air wave detection. When pressure is applied to the hose connected to the AW14-RF Transmitter (e.g., by an obstruction contacting the door's weather stripping), an air wave is generated. This air wave activates the switch within the transmitter, which then wirelessly sends a signal to the MRF-01 Receiver. The receiver, upon receiving the signal, triggers the connected motor controls to perform a programmed action, such as stopping or reversing the door.
The wireless signal transmission between the transmitter and receiver ensures a clean installation without the need for physical wiring between the moving door and the control panel, enhancing both safety and aesthetics.

Maintenance

The Miller Edge AW14-RF-K10 system is designed for low maintenance. Regular inspection of the following components is recommended to ensure continued reliable operation:

- **Hose and Weather Stripping:** Periodically check the hose and the weather stripping for any signs of wear, damage, or blockages that might impede air wave transmission. Ensure the hose remains securely inserted.
- **Transmitter and Receiver Enclosures:** Inspect the ABS enclosures of both the transmitter and receiver for physical damage. Keep them clean and free from excessive dust or debris.
- **Wiring Connections:** For the MRF-01 Receiver, periodically verify that all wired connections to the motor controls are secure and free from corrosion.
- **Battery (if applicable):** While the product description does not specify a battery, if your specific model includes one, ensure it is checked and replaced according to manufacturer recommendations.

For specific maintenance guidelines or if you encounter any issues, please refer to the detailed product manual or contact Miller Edge support.

Troubleshooting

If you experience issues with your AW14-RF-K10 system, consider the following common troubleshooting steps:

- **No Signal or Intermittent Operation:**
    - Verify that the MRF-01 Receiver is properly powered and wired to the motor controls.
    - Check the hose and weather stripping for any leaks, kinks, or obstructions that might prevent proper air wave generation.
    - Ensure the AW14-RF Transmitter is securely attached and functioning.
    - Confirm that the transmitter and receiver are within the specified operational range (up to 100 feet) and that there are no significant physical obstructions or sources of radio interference between them.
    - Re-check the pairing process between the transmitter and receiver if the issue persists.
- **False Activations:**
    - Adjust the sensitivity of the system. If the sensitivity is too high, minor vibrations or air pressure changes might trigger the switch.
    - Inspect the hose and weather stripping for any damage that could cause unintended air pressure changes.
- **Crosstalk with Other Devices:**
    - The system is designed with 5 billion coding combinations to prevent crosstalk. If you suspect interference from another device, ensure proper pairing and coding. Contact support if the issue persists, as it may indicate a unique environmental factor.

If these steps do not resolve the issue, please contact Miller Edge technical support for further assistance.

Specifications

Feature	Detail
Product Model	AW14-RF-K10
Kit Contents	1 x AW14-RF Transmitter, 1 x MRF-01 Receiver
Transmitter Type	Wireless Air Wave Switch (embedded)
Receiver Connection	Wired to motor controls
Coding Combinations	5 billion
Receiver Operating Frequency	915 MHz
Max. Door Length Supported	Up to 60 feet
Wireless Signal Range	Up to 100 feet (conditions dependent)
Sensitivity	Adjustable
Manufacturer	Miller Edge
ASIN	B00X4K43JW

Warranty and Support

For information regarding product warranty, please refer to the warranty documentation included with your purchase or visit the official Miller Edge website. Warranty terms and conditions may vary.
For technical support, installation assistance, or any other inquiries, please contact Miller Edge directly:

Phone: 1-800-220-3343

Website: www.milleredge.com

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