



AW12-RF/MRF-01 INSTALLATION INSTRUCTIONS

Preliminary



1- PARTS LIST

PART NUMBERS

-AW12-RF Single Channel
Transmitter/Air Wave™ Switch
Assembly

-MRF-01 Single Channel Receiver

-P/N=? Battery, CR2032

-(4) #6-20x3/4", Screw, Self-Drilling

2- INSTALL TRANSMITTER/AIR WAVE™SWITCH ASSY

-Open box, unpack battery and remove
lid from the AW12-RF.

-Install CR2032 battery as shown with
the "+" side up. Notice that the Red LED
blinks once upon insertion.

-Now position & attach, with provided
screws, your AW12-RF to your bottom
angle or end stile of your door. Replace
lid.

-Now, dependent upon your "kit", make
the necessary airline connections.



3- INSTALL RECEIVER

-Open box, remove lid from the MRF-01 receiver.

-Position receiver on operator, so that its wiring will reach the operator terminal strip. Keep in mind that the Green antenna wire must be exposed to the AW12-RF Transmitter/Air Wave™ Switch. It cannot be behind any type of metal.

-Connect the Red (+) & Black (-) to your 24VAC/DC source. The White wire connects to a low voltage COMMON terminal. The Yellow wire connects to your EDGE/SAFETY terminal.



4- PROGRAMMING

-Apply power to the receiver.

-Green Power LED stays on; Channel 1 Red LED will be blinking.

-To enter "Learn" mode simply press your fingertip onto CH1 (in the LEARN BUTTON section of the PCB). The Red LED remains on and the Amber Learn LED will begin to blink.

-Activate the edge & note the Red & Amber LED's will blink alternately rapidly. Then the Red LED will go out & the Amber LED remains on.

-Channel 1 is now programmed.

-To start-over/erase programming, press and hold CH1 again for 3 seconds, LED's will blink for 5 seconds & then go into fault mode.



5- TEST SAFETY EDGE

-Ensure that your door stops/reverses when safety edge is activated during close cycle.

LED INDICATORS

<u>LED Color</u>	<u>Function</u>	<u>Description</u>
Green	Power	Always On
Yellow	Status	Usually On – Off if right out of the box, no transmitter associated. Wink Off once per TX message received. Blinks rapidly during Learn Mode.
Red (per channel)	Relay State Learn Mode	Off when Relay is Clear. On when Relay is in Fault. Blink very slowly for Low Battery. Blink slowly if no TX has been associated. On when this channel is in Learn Mode (Yellow blinking). Blinks rapidly when Learn Mode is complete.

5- Specifications and Controls: Transmitter Unit

Frequency: 915 MHz. FSK Modulation.

Indicator Lights: Red LED: Tx Data

Power Source: Batteries: CR2032 Coincell. 3.0VDC Lithium.

Dimensions:

Antenna: Integral PCB loop.

Response Time: Nominal 70 msec; Safety Edge Input to Receiver Relay Contact Output.

6-Specifications and Controls: Receiver Unit

Indicator Lights: Green LED: Power on; Red LED: Relay energized, indicates safety edge activation;
Yellow LED: Status

Power Source: 10 to 40 VDC, 10-30 VAC (RMS)

Power Consumption: 16 mA (Idle) with Relay Off; 53 mA (avg.) with Relay On

Dimensions: 4.9"w x 3.75"h x 1.2"d

Cable Connections: Integral 18" wiring with #8 spade lugs.

Maximum Operating Distance: 100 Feet

7- FCC Compliance

FCC ID: OYE-MTF10

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS.

1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE
AND

2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which may be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1- Re-orient or relocate the receiver antenna
- 2- Increase the separation between the equipment and the receiver
- 3- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4- Consult the dealer or an experienced radio/TV technician for help.

Changes or Modifications Not Expressly Approved By The Party Responsible For Compliance Could Void The User's Authority To Operate The Equipment.