



IMPORTANT:
READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

The PS20-RF switch contains a transmitter that is embedded within the switch enclosure. There is no need to hardwire coil cords or retracting reels, which saves installation time and improves visual aesthetics. PS20-RF switch includes a receiver which is wired to the motor controls. Kits may be installed on a doors up to 18 feet wide.

1- Parts List

PART NUMBER

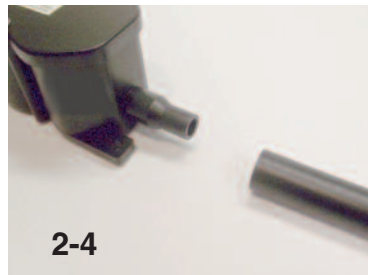
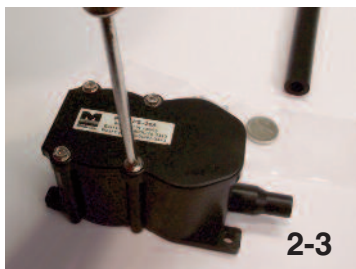
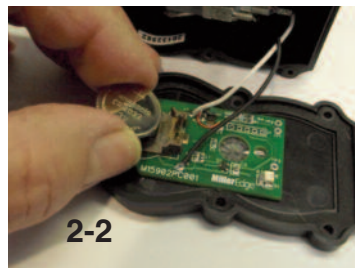
1. PS20-RF Transmitter/Air Switch Combination
2. HRH-375, Hard Hose, 4"
3. Battery, CR2032

Tools Required:

1. 1/8" Phillips Head Screwdriver
2. Mounting Screws (not supplied)

2- Install Transmitter / Air Switch Assembly

- 2-1. Open and unpack the battery and remove lid from the PS20-RF.
- 2-2. Install the CR2032 battery as shown with the "+" side up.
Notice that the RED LED blinks once upon insertion.
- 2-3. Replace the lid of the PS20-RF.
- 2-4. Insert the PS20-RF nipple into either end of the Hard Hose.
- 2-5. Insert remaining Hard Hose end into the Gum Rubber Hose located inside the bottom astragal.
- 2-6. Position and attach the PS20-RF to the bottom angle or end stile of the door, taking care not to pinch close the Hard Rubber or Gum Rubber Hose.



3- Test Safety Edge

Ensure that the door stops/reverses when the sensing edge is activated during the close cycle.

4- Transmitter Specifications

Frequency: 915 MHz. FSK Modulation

Indicator Light: Red LED. Blinks when data is sent.

Power Source: CR2032 Coincell Battery 3.0VDC Lithium

Antenna: Integral PCB loop

Response Time: Nominal 100 msec, Safety Edge Input to Receiver Relay
Contact Output

Operating Distance: 50 feet minimum, Up to 100 feet depending on conditions

Operating Temperature: 14°F - 140°F (-10°C - + 60°C)

5- FCC Compliance

Transmitter

Model: PS20-RF

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 UNDESIRED 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 Authority To Operate The Equipment.

PS20-RF_Inst_20140828



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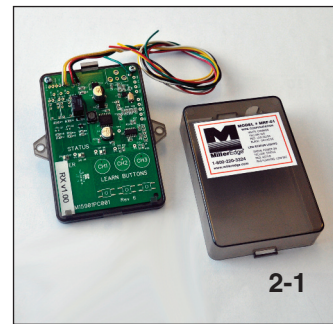
The MRF-01 Receiver is designed to work with our new wireless devices, AW14-RF Air-Wave Switch, and the PS20-RF Pneumatic Switch. When the Receiver gets a message from the Transmitter, it will close the relay to instruct the door operator to stop and reverse. Each Transmitter is associated with the Receiver using a Learn process.

1- Parts List

PART NUMBER	Tools Required:
1. MRF-01 Single Channel Receiver	1. 1/8" Phillips Head Screwdriver 2. Mounting Screws (not supplied)

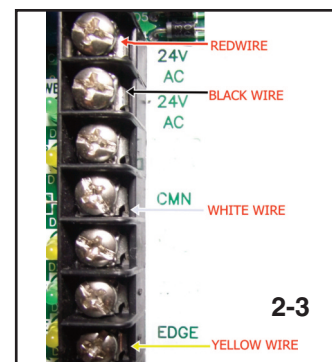
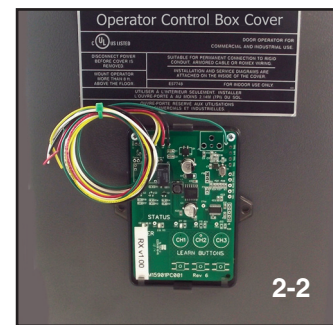
2- Install Receiver

- 2-1. Open box, remove lid from the MRF-01 receiver.
- 2-2. Position receiver near the operator, so that its wiring will reach the operator terminal strip. The Green antenna wire must be visible (line-of-sight) to the transmitting device. It cannot be behind any type of metal.
- 2-3. Connect the Red (+) & Black (-) to your 24VAC/DC source.
- 2-4. The White wire connects to a low voltage COMMON terminal. The Yellow wire connects to your EDGE/SAFETY terminal.



3- Programming

- 3-1. Apply power to the receiver. The Transmitter device must be operating.
- 3-2. Green Power LED stays on; Channel 1 Red LED will be blinking.
- 3-3. 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 Status LED will blink.
- 3-4. Activate the transmitting edge and note the Red & Amber LED's will blink alternately rapidly. Then the Red LED will go out & the Amber LED remains on.
- 3-5. Channel 1 is now programmed.
- 3-6. To start-over/erase programming, press and hold all 3 buttons at once for 3 seconds. The LED's will blink rapidly and then go into Fault mode. Repeat the programming steps above.
- 3-7. Up to (8) transmitters can be programmed to one (1) receiver.



4- Test Safety Edge

4-1 Ensure that the door stops/reverses when the sensing edge is activated during the close cycle.

LED Color	Function	Description
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	Relay State	Off when Relay is Clear. On when Relay is in Fault. Blink rapidly for Low Battery. Blink slowly if no TX has been associated.
	Learn Mode	On when this channel is in Learn Mode (Yellow blinking). Blinks rapidly when Learn Mode is complete.

5- Specifications and Controls: Receiver Unit

Power Source: 10 to 40 VDC, 10-30 VAC (RMS). 50mA max.

Dimensions: 4.9”w x 3.75”h x 1.2”d

Cable Connections: Integral 18” wiring.

Operating Distance: 50 feet minimum. Up to 100 feet depending on conditions

6- FCC Compliance

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