



# Motorlink



## OPERATION

### Radio Operation

2 button keyfob controls 2 or 3 wire reversible DC gear motors or linear actuators in both directions.

### Manual Override

A single-pole, double-throw (SPDT) switch can be connected to the override input. This input terminal provides a low-power control signal, so the override switch does not switch the full motor current. Virtually any switch style and electrical rating will work. When the override switch is in use, the radio remote control is temporarily disabled for safety.

### Coding

Each system is factory shipped with a unique random radio address to prevent other radio transmitters from causing unwanted operation. The address can be changed in the field, and the receiver can learn a new transmitter address.

### Indicators

STATUS: Lights when valid transmission is received.

A and B: Lights to indicate that an output is active.

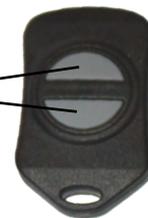
### Changing Keyfob Radio Address

1. Using a paperclip, press the ADD button through the hole in the back of the keyfob.
2. When the button is pressed, an LED will light in the "MODE\_IND" window. The address will be randomized as long as the button is held down. When the button is released, the address is saved, and the LED will flash to set user permissions.
3. Press each button on the keyfob once. Press only one at a time.
4. Press the ADD button again, or wait 17 seconds. The LED will go out, and the keyfob must now be introduced to the receiver.



ADD button

Function Buttons



## IMPORTANT!

Read this manual completely before operating system.

Keep this manual available for future reference.

Make sure the area is safe for operating equipment before turning power on or starting equipment.

If you encounter any problem or malfunction, discontinue use immediately, and contact your equipment dealer for service or replacement parts.

## CAUTION

Improper operation of these controls could cause damage to equipment. Do not allow anyone to operate this equipment before completely reading all manuals.

## NOTICE

Miratron, Inc. controls are not intended for life or safety applications. Miratron, Inc. shall not accept responsibility for installation, application, or safety of machine or systems which utilize miratron, Inc. controls.

### Introducing New Keyfob(s) to Receiver

Receivers are factory matched to keyfobs. If additional or replacement keyfobs are needed, follow this procedure.

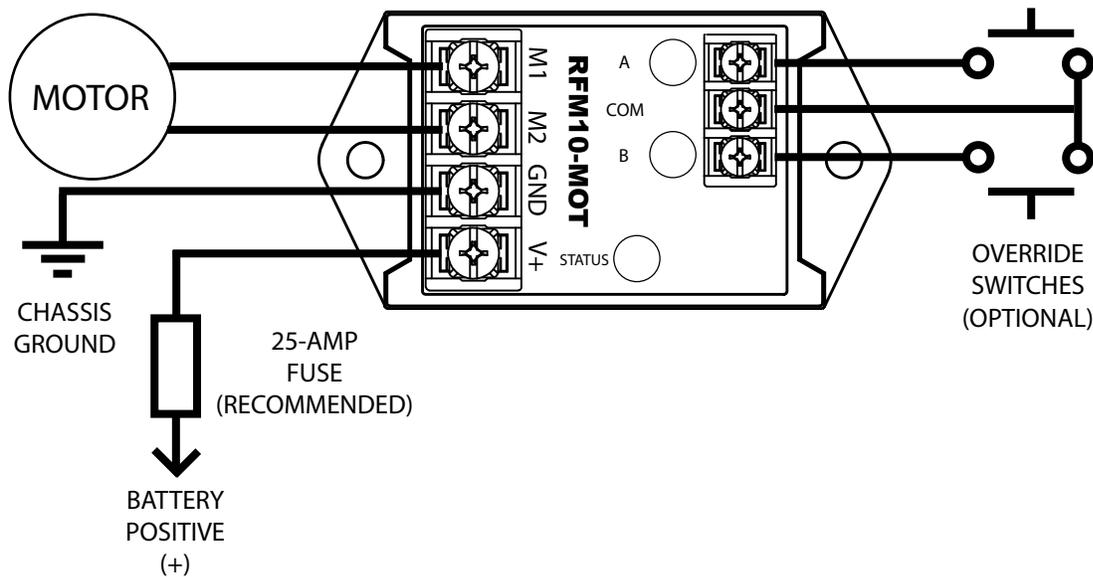
Each receiver can learn the unique radio addresses of up to 40 transmitters (keyfobs). The receiver will only accept control commands from a transmitter that has been introduced by the following procedure:

1. Make sure power to the receiver is ON.
2. Momentarily connect both the A and B terminals to the COM terminal to enter program mode. (Press both A and B override switches at the same time, or connect momentarily with wires.) The STATUS LED will begin blinking.
3. Press any button on the keyfob momentarily while the receiver LED is blinking.
4. Momentarily connect both the A and B terminals to the COM terminal again to exit program mode.
5. Verify operation of the transmitter and receiver to confirm successful pairing.

# SPECIFICATIONS

<b>Transmitter</b>	Frequency	433MHz
	Frequency Control	FM
	Range	Keyfob transmitter: 50-100' outdoor line of sight
	RF Power	1mW, nominal
<b>Receiver</b>	Battery Type	3-volt lithium coin cell, CR 2032
	Power Requirement	12vdc, 50mA max plus motor load current
	Antenna	Built-in, (external option)
	Output type	25-amp, Solid state
<b>Dimensions</b>	Field Wiring	Terminal blocks
	Overall	4.0" L x 2.1" W x 1" H
<b>Environmental</b>	Mounting	Molded-in mounting tabs. Hardware included.
	Sealing	Potted electronic module
	Storage	-40°C to 85°C
	Operating ambient temperature	-10°C to 50°C

# WIRING



### TERMINAL BLOCK WIRING:

- M1 MOTOR, 20 AMPS MAX.
- M2 MOTOR, 20 AMPS MAX.
- GND CHASSIS GROUND / BATTERY NEG (-)
- V+ 12V BATTERY POS (+)
  
- A OVERRIDE SWITCH A
- COM SWITCH POLE/COMMON
- B OVERRIDE SWITCH B