

RF340-6PR-ASL

Instruction Manual



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RF340-6PR-ASL is an RF Transmitter and Receiver operating at a fixed frequency of 340 MHZ. The receiver operates from 12VDC and provides six polarity reversing outputs. The receiver has terminal blocks for connecting the output to the 6-polarity reversing relay outputs. A "program" button is provided on the receiver to program the transmitter(s) address into the receiver's memory. An LED on the receiver indicates the receiver's programming status and illuminates when the receiver is energized. The operating range is at least 100 feet. The receiver is ideal for controlling 4 leveling jacks and 2 slide outs.

The transmitter has a button assigned for each of the 6 outputs. Outputs 1, 2, 3 and 4 can be selected individually or any combination of the 4. The ALL button will select all 4 of these outputs.

The AUX1 and AUX2 buttons can be selected individually or at the same time. NOTE: the AUX1 and AUX2 cannot be selected at the same time as outputs 1,2,3 or 4.

Once the selected outputs on the transmitter are selected, the 2 directional controls can be used to control the output. The UP arrows will turn the motor in one direction, and the DOWN arrows will reverse the polarity and turn the motor in the opposite direction. The outputs are momentary and will only operate while the button is pressed. They will stop when the button is released.

Safety Timeout: The receiver has a safety timeout. This prevents the receiver from operating if the transmitter is unintentionally pressed. To activate the receiver, press and hold the ON/OFF switch on the transmitter for 2 seconds. The receiver will activate and remain active until the system sees no activity for approximately one minute. Once the receiver times out, the user will need to press and hold the ON/OFF button again to activate it.

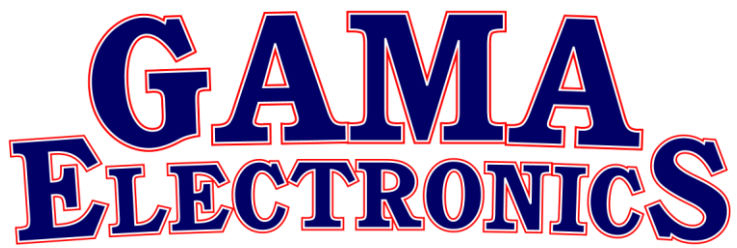
Manual Switch Input Control: The receiver contains a 12-position terminal block for connection to manual switch inputs to control the 6 polarity reversing outputs. The manual switch inputs are logic level inputs and only require a small gauge wire between the switches and the terminal block. Apply 12V to the desired function and it will operate the output. Only 1 function will operate at a time using the manual switches.

Current Detection/Over-Current System Shutdown: The RF340-6PR-ASL is equipped with an output current detection system. This system uses a user-friendly rotary switch, Current Trip Setting Switch, to set the maximum current for all outputs. For example, if the control dial is set to 30 amps, each output is permitted up to 30 amps before the relay disengages, temporarily cutting off power to the motor controlled by that output for 5 seconds. The system continuously monitors the total current of all active outputs. If the combined current of all outputs exceeds 80 amps, an overcurrent fault condition is triggered.

Additionally, the system keeps track of the current trip events. If a single output experiences overcurrent three times within a one-minute period, all outputs are disconnected, and the

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program LED begins to flash. This indicates an overcurrent fault condition. To reset and reactivate the system after such an event, the input power to the receiver must be turned off and then back on. This safety feature is designed to protect the receiver and connected loads, and it also alerts the user to the presence of an overcurrent condition that needs to be addressed.

Power Switch Control: The RF340-6PR-ASL Receiver features a terminal block designed to connect an auxiliary power switch. This allows for the power switch to be positioned in a separate location, with wires routed back to the unit for control. This setup provides users with the convenience of managing the system's power state from a remote or more accessible location, enhancing the overall usability and flexibility of the system.

Maximum Ratings: Power for the receiver can be in the range of 10VDC to 15VDC. The receiver is reversing polarity protected. The relay contacts are rated at 30 Amps @ 13.8VDC.

Power Consumption: 10mA when the relays are de-energized, 45mA when one relay is energized.

Dimensions: Receiver dimensions are approximately 5"L x 5"W x 2"H

Operating Temperature Range: 0°F to 160°F

Programming the RF340-6PR-ASL Receiver to Operate with a Transmitter

Before starting the programming process, ensure that the Receiver is connected to the input power. Note that entering the program mode will erase all previously programmed transmitter addresses from the Receiver's memory.

Programming Steps:

1. To initiate programming mode, locate and press the "PROGRAM" button on the Receiver. Hold it until the red LED next to the button illuminates (about 2 seconds), then release. The Receiver is now in transmitter program mode and all previous transmitter addresses are erased.
2. Press and release the UP or DOWN button on the transmitter. Observe that the red LED on the Receiver turns off and then blinks once, indicating successful programming. Release the button.
3. After 5 seconds of inactivity (no button presses on the transmitter), the Receiver will exit programming mode. The red LED on the Receiver will blink rapidly before turning off, signaling a return to normal operation mode.

Remember, only one transmitter can be programmed to the receiver at a time. The receiver will retain its programming even when power is removed, ensuring consistent operation.

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Current Trip Set Point Switch

Rotary Switch Position 0: 1.0-Amperes
Rotary Switch Position 1: 2.0-Amperes
Rotary Switch Position 2: 4.0-Amperes
Rotary Switch Position 3: 6.0-Amperes
Rotary Switch Position 4: 8.0-Amperes
Rotary Switch Position 5: 10.0-Amperes
Rotary Switch Position 6: 12.0-Amperes
Rotary Switch Position 7: 14.0-Amperes

Rotary Switch Position 8: 16.0-Amperes
Rotary Switch Position 9: 18.0-Amperes
Rotary Switch Position A: 20.0-Amperes
Rotary Switch Position B: 22.0-Amperes
Rotary Switch Position C: 24.0-Amperes
Rotary Switch Position D: 26.0-Amperes
Rotary Switch Position E: 28.0-Amperes
Rotary Switch Position F: 30.0-Amperes