



RF Receiver Model # RF340-4PR-TO Instruction Manual

Overview:

The RFR340-4PR-TO is an RF receiver operating at a fixed frequency of 340 MHz. The receiver operates from 12VDC and provides four polarity reversing output. Up to twelve, ten-button keyfob transmitters (model RFT340-4PR) can be used to activate the receiver's relay. The receiver has terminal blocks for connecting the power and relay contacts. Each transmitter has a unique address that is transmitted when a button is pressed. 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 receiver is encased in a small, waterproof enclosure. The operating range is at least 100 feet. Operating temperature range - 0o F to 160o F.

The transmitter has two buttons assigned to each of the four outputs. The up (^) button runs the motor in one direction and down (v) button runs the motor in the opposite direction. There are two "all" buttons which apply 12 VDC to all outputs to run the four motors simultaneously. The outputs are energized for as long as the buttons are depressed.

There is a five minute timeout feature incorporated into the receiver. To turn the receiver On, first press and release the "A" button on the transmitter. Within two seconds, press and release the "B" button on the transmitter. The LED on the receiver will illuminate and the receiver will now respond to transmitter commands and automatically turn off after five minutes of no activity.

Maximum ratings:

Power for the receiver can be in the range of 10 to 15Vdc. The receiver is reverse polarity protected.
The relay contacts are rated at 30 Amps @ 13.8Vdc.

Power consumption:

10mA when the relays are de-energized. 45mA when the relay is energized

Dimensions:

Receiver dimensions are approximately 5" L x 5" W x 2" H.

Programming instructions:

Each keyfob transmitter has its own unique internal address that is transmitted whenever a button on the keyfob is pressed. The receiver needs to be programmed to respond only to keyfob transmitters it is intended to operate with. The following steps configure the receiver to operate with a particular keyfob transmitter(s). Up to twelve keyfob transmitters can be programmed to one receiver. Please read the entire programming procedure before starting. Prior to programming the receiver, verify that the receiver is connected to the input power. When the receiver enters program mode, all previous transmitter addresses that were programmed will be erased from the receiver's memory.

1. Locate the pushbutton labeled "PROGRAM" on the receiver. Press and hold this button until the red LED next to the program button illuminates (approximately 5 seconds). The receiver is now in the transmitter program mode. Release the pushbutton. At this point all previously programmed transmitter addresses are erased from the receiver's memory.
2. Press any button on the keyfob transmitter and verify that the red LED on the receiver extinguishes and then illuminates (blinks once). Release the button.
3. Repeat previous step for additional key fob transmitters that will operate with this particular receiver. The red LED on the receiver will extinguish and illuminate one time for the first transmitter being programmed, twice for the second, three times for the third, four times for the fourth etc. The receiver will not respond to transmitters that have already been programmed.
4. After 5-seconds of no switch being pressed on the transmitter(s) the receiver will return to normal operation. The red LED on the receiver will blink rapidly, then extinguish. The receiver is now in the normal mode of operation. This completes the programming instructions. The receiver will retain all of it's programming even when power is removed.