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RF Receiver Model # RF12V-1PR Instruction Manual

Overview:

The LRF12V-1PR-ASL is a long range RF receiver operating at a fixed frequency of 340 MHz. The receiver operates from 12VDC and provides a polarity reversing output. Up to twelve, two button keyfob transmitters (model KF340-2) can be used to activate the receiver's relay. The receiver provides four, ¼-inch quick connect terminals for connecting the power and relay contacts. The receiver is encased in a small, waterproof enclosure. Each transmitter has a unique address that is transmitted when a button is pressed. A "PROGRAM" push button switch 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 either relay is energized. Additionally, there are three lead wires that can be connected to an external switch which allows the receiver to be operated without using the remote transmitter. **The black switch lead wire is common. The auxiliary leads will only provide momentary operation.**

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.

Input Power connection: 12Vdc power connects to the +12V and -12V terminals.

Output Connection: The output of the receiver is connected to the "M1", and "M2" terminals.

Programming Instructions: Each transmitter has its own unique internal address. The receiver needs to be programmed to respond only to the specific transmitter it is intended to operate with. The following steps configure the receiver to operate with a particular transmitter or transmitters.

Momentary or Latching Output: The transmitter and receiver can be configured for momentary or latching operation. For momentary operation, the output of the receiver will be active for as long as the transmitter switch is depressed, and will turn off when the switch is released. In the latching configuration, the receiver output will turn on as soon as the transmitter switch is depressed and released. To turn off the latching output, the transmitter switch must be depressed and released again.

1. Locate the pushbutton switch labeled "PROGRAM" on the receiver. Press and hold this switch until the red LED next to the program switch illuminates (approximately 3 seconds). The receiver is now in the transmitter program mode, release the switch. At this point all previously programmed transmitter addresses are erased from the receiver's memory.
2. For momentary operation, press and release a switch on the transmitter. The red program LED on the receiver will blink once. For latching output, press and release the same switch a second time, the program LED will flash on and off.
3. Repeat previous step for additional transmitters that you desire the receiver to respond to.
4. The receiver will return to normal mode if no transmitter switches are pressed for 5-seconds. The red LED on the receiver will flash and then turn off. The receiver is now in the normal mode of operation. This completes the programming instructions. The receiver will retain all of its programming even when power is removed.

NOTE: The white 3 pin connector on the receiver is for connecting an optional long range antenna (LRA-340). If the long range antenna is to be used, the wire loop under the receiver front panel must be clipped. This is to prevent the internal & long range antennas from interfering with one another. If moisture is a concern the 3 pin connector can be sealed with RTV silicone.