

XTENDED RANGE FOUR CHANNEL SUPERVISED STATIONARY RECEIVER

For Use With Linear's **XR** Series Xtended **Range Transmitters**

Installation Instructions Linear

3. COMPONENT LOCATIONS



ANTENNA

Power Door Products

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1. PRODUCT DESCRIPTION

Linear's Xtended Range FM receivers and transmitters are designed for use in various wireless remote control applications. When the Model XR-4 receiver detects a signal from its companion transmitter, it will verify the digital code, activate the correct output channel, and trigger the remote device connected to the receiver.

The XR-4 receiver has full supervision capabilities. If the "status" option is selected, the receiver expects hourly status signals from its transmitter. If these signals cease, the receiver will indicate trouble by activating its status output after four hours. Contact supervision allows the receiver's outputs to follow the transmitter's inputs, each output staving activated as long as each transmitter input is activated. Alternately, an "auto-restore" option can be selected in the transmitter, causing a momentary receiver output each time any transmitter input is activated. If the transmitter sends a low battery signal, the receiver's low battery output will activate.

Power for the XR-4 receiver can come from an external 12 VDC power supply (Linear Model T-1224DC) or from a 12-volt battery. A diode protects the unit from reverse power polarity The XR-4 draws about 30 mA standby, and about 190 mA when all outputs are active. The receiver outputs provide isolated N/O and N/C relay contacts for each channel capable of switching a maximum of 1 Amp @ 32 VDC each. The low battery and status outputs are solid state and are capable of switching up to 50 mA @ 20 VDC to ground.

Two antennas (sold separately) are available for the XR-4. The Model ANT-1A is an 8-inch "rubber duck" antenna for short range applications (less than 1 mile). The ANT-1A requires a CON-180A (straight) connector to mate the antenna to the transmitter. For a right angle antenna, use the CON-180A plus the CON-90A. The Model ANT-2 is a 3-foot whip antenna for use in long range or difficult installations where more range from the XR-4 is required. A common 9-foot 1/4 wave CB whip antenna can also be used with the XR-4 for maximum range.

Two 8-position switches set the unit's system code. This code must be matched in the XR-4's transmitter(s). There are 65,536 different system codes possible. The 4-position option switch selects the status supervision option for each channel.

The receiver is housed in a rugged weather-resistant metal enclosure with a sturdy SO-239 antenna connector and a water-tight wiring strain relief bushing. Two indicators are visible through a window on the case. The green power indicator lights when the receiver has power. During reception, the red RF indicator lights. Two internal test points are provided for signal strength and audio monitoring.

3-FOOT

4. INSTALLATION TIPS



5. MOUNT RECEIVER CASE

2. OPEN RECEIVER

If using the ANT-1A antenna: For best range mount the XT/XR unit to a metal plate with a minimum size of 12" x 12". The ANT-1A antenna should extend above the mounting plate and be free of obstructions. If the ANT-1A antenna cannot be mounted in the open, consider using an extension coaxial cable with PL-259 connectors to move the antenna's location. The XT/XR series of radios operate in the 27 MHz Citizens Band (CB) and may use any CB antennas or CB antenna accessories. Antennas, PL-259 extension cables and other adapters



