**DESCRIPTION**

The GRD is a digital receiver designed for use with automatic gate operators or systems where a remote antenna is needed. The GRD-2 will operate two gates, one gate and an obstacle sensor, or channel one can open the gate and channel two can close the gate.

All of the Delta-3 transmitters, including the two and four-channel transmitters, are compatible with the GRD. The Delta-3 radio format provides 256 different digital codes.

The codes are set using the 8-position coding switches in the unit. In order to avoid the possibility of duplicating codes in adjacent systems, factory set codes should not be used. The receivers can operate from 12-30 volts AC or 10.5-30 volts DC and are normally powered from the gate operator. The relay contact(s) are rated at 5 amps @ 32 volts AC/DC NEC Class 2 circuit.

**STEP 1 Open receiver case.** To open case, squeeze sides of case and rotate upward.

**STEP 2A GRD & GRD-2 Channel 1 code setting.** To set a code, select any valid combination of ON and OFF positions for the switch keys numbered 1 - 8. Use a paper clip to set the eight keys.

**STEP 2B GRD-2 Channel 2 code setting.** Select any valid combination of ON and OFF positions for each of the switch keys numbered 1 - 6. Use a different code combination than that used for channel one switch.

**STEP 3 Transmitter code setting.** Locate the coding switch on the transmitter and set the eight keys identical to those on the desired channel of the receiver. Be sure they match exactly. If using a two or four-channel transmitter, refer to the coding instructions included with the transmitter for proper system coding.

**STEP 4 Connect receiver relay output.** Connect the appropriate channel wires (Ch. 1 - two gray wires), (Ch. 2 - two yellow wires) to the appropriate activation terminals on the gate operator.

**STEP 5 Connect receiver to power.** Connect the red power input wire to the 24VDC radio power and the black wire to the common terminal on the gate operator. Alternately connect wires to a 12-24 VAC transformer.

**STEP 6 Mounting the receiver.** Use the screws provided to mount the receiver within the operator housing. This provides protection from the elements. Secure case with case screws.

**STEP 7 Connect antenna.** Connect the coaxial cable to the “F” connector on the receiver. Drill a 3/8” hole on the top of the operator housing for the bulkhead connector. Insert the connector and secure it with the nut and lock washer. Connect the cable and antenna to the bulkhead connector.

**STEP 8 Connect receiver relay output.** Connect the appropriate channel wires (Ch. 1 - two gray wires), (Ch. 2 - two yellow wires) to the appropriate activation terminals on the gate operator.

**LINEAR LIMITED WARRANTY**

The Linear product is warranted against defects in material and workmanship for twelve (12) months. The Warranty Expiration Date is labeled on the product. This warranty extends only to wholesale customers who buy direct from Linear or through Linear’s normal distribution channels. Linear does not warrant this product to consumers, so there are no obligations or liabilities on the part of Linear or its subsidiaries in the event of a product defect or failure or any claimed injury or damage.

There are no obligations or liabilities on the part of Linear Corporation for consequential damages arising out of or in connection with use or performance of this product or other related damages with respect to loss of property, revenue, earnings, or cost of removal, installation, or reinstallation of the product or other damages that may arise from the use of this product.

In no event will Linear be liable for any indirect, incidental, special, or consequential damages.

All products returned for warranty service require a Return Product Authorization (RPA#). Contact Linear Technical Services at 1-800-421-1587 for an RPA# and other important details.

**IMPORTANT**

- A general knowledge of radio and its vagaries should be gained prior to acting as a hobbyist wireless encoder/decoder.
- Changes in modifications to the device may void FCC compliance.
- All intermediate and radio equipment should be used with radio equipment that meets FCC requirements.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wireless encoder/decoder.
- Disconnect encoder/decoder from the receiver before making any connections to enable the receiver to function properly.

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