

**Linear** **RADIO**®

# Delta 3 Gate Receivers Models GRD; GRD-2

- Uses Linear's popular Delta 3 format.
- 12–24 Volts AC or DC.
- Auto voltage sensing — no jumpers to set.
- Single relay and two relay models.
- Supplied with whip antenna, three feet of coaxial cable, and bulkhead connector.

The GRD and the GRD-2 are two auto sensing Delta 3 format gate receivers from Linear. They eliminate any chance of damage to either the gate operator or themselves from running off the wrong voltage. Nearly all gate operators offer either 24 or 12 volts AC or DC as accessory power. Because the GRD and GRD-2 are auto sensing, each receiver recognizes the gate operator's correct voltage. As a result, installers can be assured of always having the correct model gate receiver on the truck.

The two receivers can operate from 12-30 volts AC or 10.5-30 volts DC and are normally powered from the gate operator. Their relay contact(s) are rated at 5 amps @ 30 volts AC/DC.

Linear's Delta 3 is a popular radio format for gate receivers, making the GRD and the GRD-2 compatible with all Delta-3 transmitters, including two and four-channel models. It uses a frequency of 310 MHz and offers 256 programmable codes. Programming of the GRD and GRD-2 is easy. Codes are set using the 8-position coding switches inside the units.

The GRD has a single relay. It replaces two different Linear gate receivers, the DRG and the DRG-LV. It is designed for use with automatic gate operators or systems where a remote antenna is needed. The GRD-2 comes with two relays and replaces Linear models DRG-2 and DRG-2-LV. It will operate two gates, one gate and an obstacle sensor, or channel one can open the gate and channel two can close the gate. Both models come with a 9-inch local antenna, three feet of 75 ohm coaxial cable, and a bulkhead connector for locating the antenna outside the gate operator enclosure.



# General Specifications

## RF

310 MHz +/- 250 KHz; Linear Delta 3 format supports 256 different code combinations per channel

## OUTPUTS

**Relay(s):** GRD = 1CH and GRD-2 =2 CH; each relay is a Form C relay (NC connection available on PCB) rated at 30 V AC/DC up to 5 Amps; relay closure is 4 seconds upon activation

**RF Test Points:** two test points for connecting of an audio listening device to hear what the receiver is hearing

## INPUTS

**Antenna:** 75 Ohm F connector

**Dip Switch:** used to set individual system codes for each channel; GRD-2 contains (2) sets of dip switches

## POWER

12 - 30 VAC or 10.5 - 30 VDC; 14 mA nominal, 45 mA maximum while relay is triggered

## OPERATING TEMPERATURE

-4°F to +140°F (-20°C to +60°C)

## DIMENSIONS

3.625 in W x 5.25 in H x 1.5 in D (92 x 133 x 38 mm)

## ELECTRICAL CONNECTIONS

36" 22AWG wires on removable connectors:

**Power:** red and black wires

**CH1 Relay:** 2 gray wires

**CH2 Relay:** 2 yellow wires

## STANDARD EQUIPMENT

GRD & GRD-2; 9.5" whip antenna, 3 ft coaxial cable, bulkhead connector, mounting hardware

## REGULATORY

FCC Part 15

The logo for Linear Corporation, featuring the word "Linear" in a bold, blue, sans-serif font with a registered trademark symbol (®) to the upper right of the letter 'r'.

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