

Linear ALERT

Wireless Radio Control
From Linear

D-4R

Four-channel
Digital Receiver

N/O — N/C dry contact output

FEATURES

Remote Operation (RF)

Activated Digital
Coding

Large Number of
Channels Available

Minimal Power
Consumption

Small Compact Case
Ideal for use in areas
where space is limited.
Installations are simplified.

Relay Output

BENEFITS

With no wires or even installations are
needed. And no permanent modifications
to existing walls. Existing wireless receivers
are also in many cases and still in use
reception. This receiver can 30% higher
reception. In addition, most systems can
be programmed to operate independently.

Provides zeroing and high level of
security. Virtually fails alarm area.

Keeps your system private. In a multi
installation environment.

Keeps longer in battery powered systems.
Can be operated by most standard control
panels.

Provides multi channel capabilities. In
one system, solving multiple problems
with one receiver.

Integrates to all types of control panels
and other components.

GENERAL DESCRIPTION

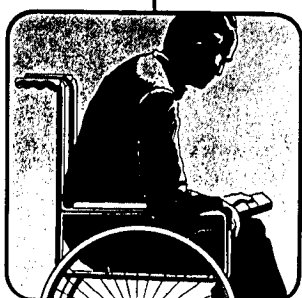
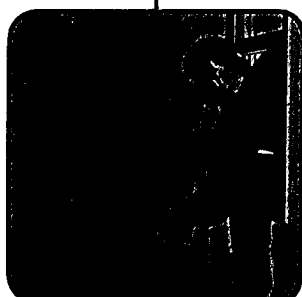
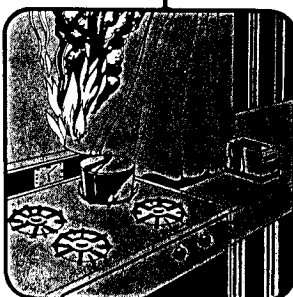
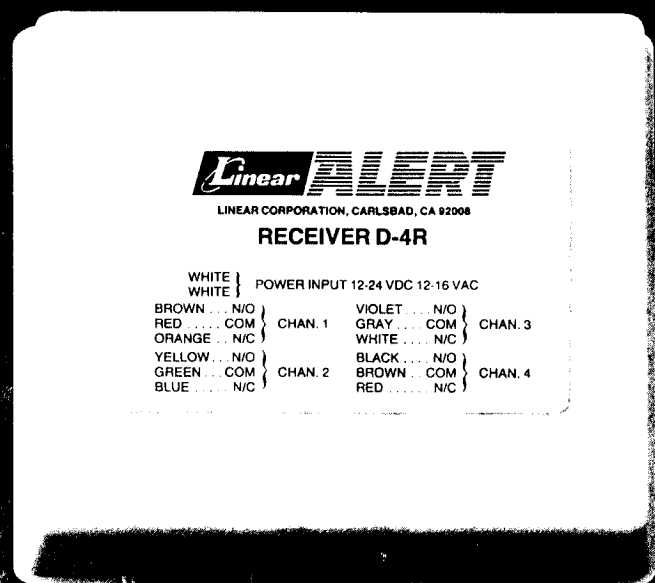
The D-4R is a small economical receiver designed for use in wireless security systems. It makes available four separate control channels in one receiver. All Linear Alert standard digital radio transmitters may be coded to activate this receiver, and any number of transmitters may be used to operate each channel. Up to 64 independent four-channel security systems may be operated in adjacent areas.

RELAY OUTPUT

The D-4R has four sets of Form C relay contacts, (normally open and normally closed) available at the output for direct compatibility with any security device.

APPLICATIONS

The Linear Alert D-4R is a versatile digital receiver. It is useful in 12-volt wireless security systems that have central control panels. Each channel can perform a variety of functions. Applications include fire warning, motion/intrusion detection, panic alarm response, and medical alert reporting. Alternatively, this receiver also can provide local annunciation, or control alarms associated with up to four fire or intrusion zones.

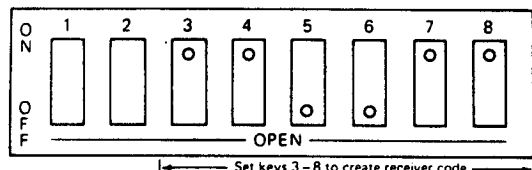


CODING INSTRUCTIONS

RECEIVER CODING

The digital coding switch in Linear's four-channel receiver is recessed on the back of the receiver case. Use a pointed object other than a pen or pencil to set the eight keys on the digital switch to the code you select. Note that keys 1 and 2 are not operational. Their functions are hardwired on the circuit board.

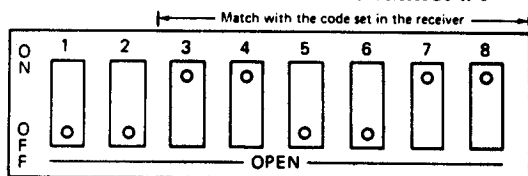
Set keys to ON or OFF positions from left to right (numbers 3 through 8). In the example shown below, keys numbered 3, 4, 7 and 8 are set to ON; keys numbered 5 and 6 are set to OFF.



CODING TRANSMITTERS

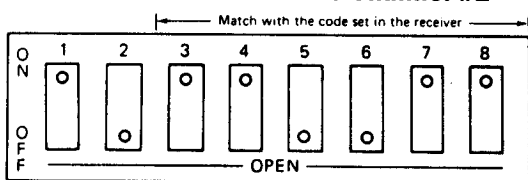
Inside each of Linear's digital transmitters is an eight-key switch which is identical to the switch in the four-channel receiver. The keys numbered 3 through 8 must be set to the same codes as the corresponding keys in the receiver. Set keys 1 and 2 on the transmitter coding switch as follows to establish which of the four receiver channels the transmitter will access.

Transmitter code to access Channel #1



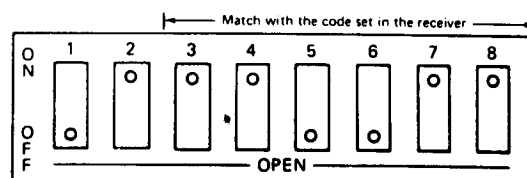
Channel No. 1 of the receiver is accessed by setting transmitter Key No. 1 to OFF and transmitter Key No. 2 to OFF.

Transmitter code to access Channel #2



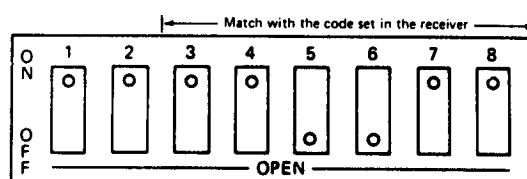
Channel No. 2 of the receiver is accessed by setting transmitter Key No. 1 to ON and transmitter Key No. 2 to OFF.

Transmitter code to access Channel #3



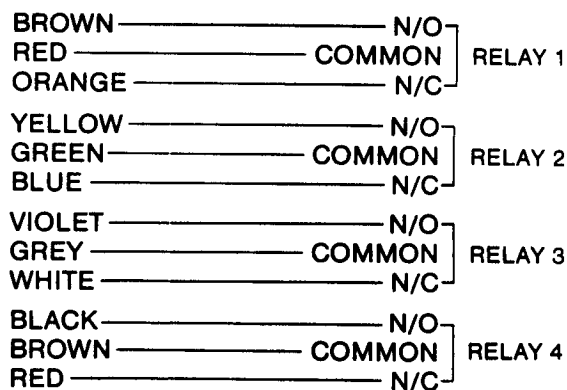
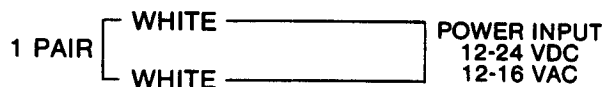
Channel No. 3 of the receiver is accessed by setting transmitter Key No. 1 to OFF and transmitter Key No. 2 to ON.

Transmitter code to access Channel #4



Channel No. 4 of the receiver is accessed by setting transmitter Key No. 1 to ON and transmitter Key No. 2 to ON.

HOOK-UP DIAGRAM



SPECIFICATIONS

CODING TECHNIQUE Pulse width A-1 modulation at 250 bits per second. Four 8-bit words are required to operate the relay.

NUMBER OF CODES:
4-channel Receiver 64 system codes
4 Channels per system.

RF CARRIER Range 290-320 MHz

RADIATED OUTPUT Complies with FCC Rules, Part 15.

SELECTIVITY 5 MHz at 5µV input

POWER REQUIREMENTS 12 to 24 VDC
12 to 16 VAC
Standby 15 mA
Operating (typical) 60 mA

RELAY CONTROL RATING 1 amp, Form C
Class II Circuit

OPERATING TEMPERATURE RANGE .. -40° to +140°F
(-40° to +60°C)

SIZE 4.9 x 4.2 x 1.3 inches
(125 x 107 x 33 mm)

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