Model LR4 Long Range 4 Channel Remote Relay Signal Control Receiver

LR4-12 Relay Control Operation

The LR4, Long Range RF relay control has 4 relay outputs that can be interfaced to a variety of equipment including LED safety signals and visual warning devices. It has 3 selectable operating modes for Toggle, Latching and Momentary modes for up to 4 Red/ Green signals. (See application datasheet.)

The LR4 is designed for remote control of industrial signaling systems. It uses 433MHZ unlicensed band RC frequency so no Wi-Fi service or LTE/ GSM data service is required for operation. 4 SPDT Relay outputs with terminal access to all contacts allow interface to most any equipment up to 10A loads. It has LED output monitors for each channel. Remote control options including base station types as well as Key-FOB type and maximum power handheld remotes. The Optional LORA configuration offers 3x the normal range and includes audio feedback signal that the signal has been received making it ideal for non-line-of-sight uses.

Lights To Go will integrate these systems into a custom panel and builds control cabinets that can perfectly fit customer needs.

LR4-12 Relay Control features:
- 4 channel Long Range RF relay control
- 4 SPDT Relay outputs with screw terminal access to all contacts
- Mom, Toggle and Latching operations
- Full AC/ DC Contacts, Up to 10A loads
- 433MHZ unlicensed band RC frequency
- No Wi-Fi service or Data Service required
- Replace long range door/ gate controls
- 115 x90 x40mm pkg, Din rail or panel mount
- LED output monitors for each channel
- Several Remote Control options including handheld, key fob & base station types
- Up to 1000ft line-of-sight range
- Up to 3 mile L.O.S. with LORA option
LR4 Popular Signal Control Configurations:

For a standard Red/ Yellow Green signal:

Control 3 light stack with only 1 at a time being ON
A Triggers Red light, while clearing all others
B Triggers Yellow light, while clearing all others
C Triggers Green light, while clearing all others
D turns off power to all 3 lights

Toggle Control 2- 2 light signals
A Toggles Signal A (Red/Green),
B Toggles Signal A power (On/ Off)
C Toggles Signal B (Red/Green),
D Toggles Signal B power (On/ Off)

Toggle Control 3- 2 light signals
A Toggles Signal A (Red/Green),
B Toggles Signal B (Red/Green),
C Toggles Signal C (Red/Green),
D Toggles power (On/ Off) to all signals

Control 4 light stack w/ only 1 allowed ON
A Triggers Red light, while clearing all others
B Triggers Yellow light, while clearing all others
C Triggers Green light, while clearing all others
D Triggers Blue or White 4th light while clearing others
Note: No remote power off option in this configuration; 1 light is always on. Need external power off.

This is a small sample of the control scenarios the LR4 can support. Many variations are possible including fully customized timing cycles and flashing variations. Please contact our application specialists for help with your next signal control project.

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