LR4-12 Relay Control Operation

The DLR4 4 channel, 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 choices of operating function for Toggle, Latching, and Momentary modes for up to 4 Red/Green signals and has LED output monitors for each channel. See application descriptions.

The LR4 is designed for wireless control of industrial signaling systems. It uses 433MHZ unlicensed band RC frequency so no Wi-Fi service or data is required for operation. 4 SPDT Relay outputs with terminal access to all contacts allow interface to most equipment up to 10A loads. Remote control options including base stations, Key-FOB hand held remotes and maximum power handheld remotes. The optional LORA configuration offers 3x the normal range and includes a feedback signal making it ideal for non-line-of-sight uses.
## Latching Mode Configurations:

### L1 - For any single light setup:

Control 1 light signal with one remote key

- **Example:**
  - A-turns Single Light On
  - Any other remote key press turns Off

### L2 - For a Red/Green, Left / Right Arrow, Stop/ Proceed X/ Arrow, etc. or any 2 light setup:

Control 2 light signal with only 1 at a time being ON

- A Triggers Red light, while turning off Green
- B Triggers Green light, while turning off Red
- C or D turn both lights off in this configuration

### L3 - For a standard Red/ Yellow Green:

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 Triggers Blue / White 4th light, while clearing all others

Note: Button D turns off power to all 3 lights

### L4 - Control 4 light stack w/ only 1 allowed ON

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 all others

Note: No remote power off option in this configuration; 1 light is always on.
LR4  **Toggle Mode Configurations:**

**Basic Control of 1 light signal**

**T11**

[A] turns Single Light On or Off
Toggle operation, Press once for On, Again for Off

**Toggle Control 1- 2 light signal**

**T21**

- A Toggles Red light
- B Toggles Green light
- C and D are not used

For a standard Red/ Yellow Green with each light independent so more than 1 can be On

**Toggle Control of 3 light stack**

**T31**

- A Toggles Red light, On then again = Off
- B Toggles Yellow light, On/Off
- C Toggles Green, light, On/Off
- D is not connected so no effect:

For controlling a 4 light stack independently so multiple lights are allowed to be ON at a time

**Toggle Control of a 4 light signal**

**T41**

- A Toggles Red,
- B Toggles Yellow
- C Toggles Green
- D Toggles Blue / White 4th light option.

Any combination can be On or Off

**Toggle Control 2- 2 light signals**

**T22**

- 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

Toggle Control 4- 2 light signals
A Toggles Signal A (Red/Green),
B Toggles Signal B (Red/Green),
C Toggles Signal C (Red/Green),
D Toggles Signal D (Red/Green),
Note: No remote power Off in this configuration,
Switch at control box/ signal or power source to shutoff

More variations including timing and flashing variations are possible please call or email our application specialists for details.

Lights To Go
316.409.4911
sales@lightstogo.com