

## AM Remote Control

**100 metres Range**

**1 or 4 channel variants**

**High Security 1 Million possible Addresses**

**4 x Relay Outputs**

**Latch/Momentary Option**

**'Easy Learn'**

**CR2016 battery**



## Applications

- General Purpose Remote Switching
- Electric Gates
- Roller Shutter Doors
- Garden Lighting

## Description

The LINCOLN is a versatile general purpose remote control, which can be used for controlling many different applications

Supplied ready to go, the receiver contains changeover contact relays that are easy to connect via screw terminals.

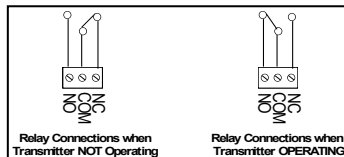
Power to the receiver is 12Vdc and the output(s) can switch up to 10A at 230Vac.

Part Number	Description	Freq (MHz)	Range** (Metres)
LINCOLN-4S1	1 channel System	433	100
LINCOLN-4S4	4 channel System	433	100
LINCOLN-4T1	1 channel Transmitter Keyfob	433	100
LINCOLN-4T4	4 channel Transmitter Keyfob	433	100

\* Range stated is optimal, in some conditions this may be dramatically reduced.

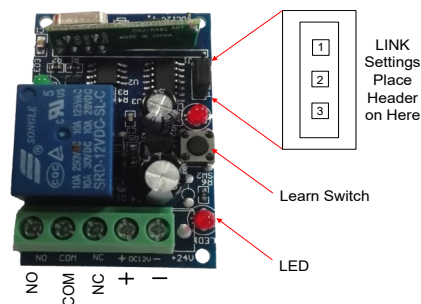
## Connecting the Receiver Unit

Each Channel output relay provides an isolated changeover Contact. Outputs 2 to 4 Connections are Common (COM) and Normally Open (NO) which close together when activated. Output 1 has an additional Normally Closed (NC) changeover contact.

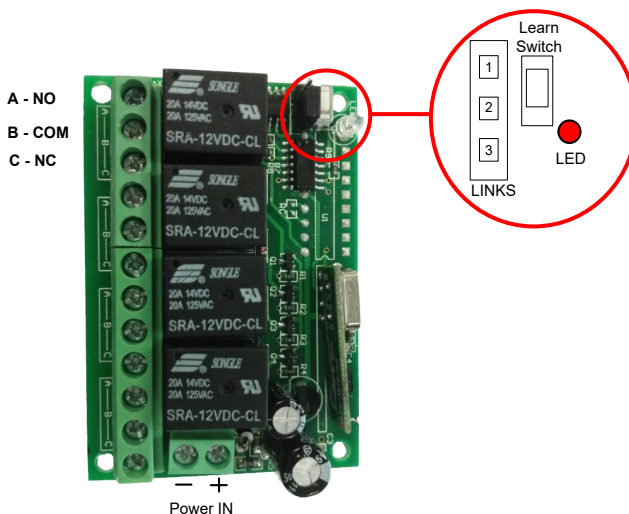


The action of the relay outputs is set by the Option link setting Jumper. A link is made / removed by the small shorting link 'cap' placed over the pin header.

LINCOLN-4S1 Receiver Circuit board



LINCOLN-4S1 Receiver Circuit board



### Link Position Controls Outputs

Fitted 1-2= Momentary

Fitted 2-3= Latching

Not Fitted = FlipFlop

**Momentary** : The relay is activated for as long as transmitter button pressed.

**Latching** : The relay toggles between On / Off each button press.

**FlipFlop** : Relays 1 & 2 and 3 & 4 operate in pairs.

When button 1 is pressed relay 1 switches on, Relay 2 Switches off

When button 2 is pressed relay 2 switches on, Relay 1 Switches off

Relay 3 & 4 operate in the same manor to Transmitter buttons 3 & 4.

### Learning a New Transmitter Keyfob

Briefly Press the "Learn Switch" on the receiver PCB, the receiver LED will illuminate.

Press any transmitter button once, the receiver LED will flash 3 times.

This transmitter will operate the system.

### Erasing Existing Transmitters

Press and hold the receiver "Learn Switch", the receiver LED illuminates.

When the LED extinguishes (5-10 seconds) the Receiver is erased.

**NOTE:** You can not erase individual Tx encoders

**NOTE:** maximum of 45 button pairings per receiver

Enclosure dimensions:



**LINCOLN-4S1**  
1 Relay Rx 33 x 81mm  
(including Flange)



**LINCOLN-4S4**  
4 Relay Rx 54 x 74mm

## Technical Specifications

### LINCOLN Transmitter Key fob

Battery Type CR2016 (supplied)  
Dimensions 59 x 34 x 12mm

### Changing the battery

Remove the front panel from the back by carefully pushing a flat screwdriver down the side to separate the enclosure. Open the case and change the battery. Ensure you check the orientation.

ELECTRICAL CHARACTERISTICS	MIN	TYPICAL	MAX	DIMENSION
Supply Voltage for +12Vd	11	12	13	Vdc
Supply Current: Quiescent		11		mA
All relays operating S1		45		mA
All relays operating S4		210		mA
Relay Rating**				A
Operating Temperature	-20		+80	degC
Receiver Sensitivity		-105		dBm
Encoding System number of Combinations			1 Million	

\*\*Please Note: The relay contacts in this unit are for functional use only and must not be used for isolation purposes

## Quasaruk Ltd. Recycling Notice

Meets the following EC Directives:

### DO NOT

Discard with normal waste, please recycle.

### ROHS Directive 2002/95/EC

Specifies certain limits for hazardous substances.

### WEEE Directive 2002/96/EC

Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfills its WEEE obligations by membership of an approved compliance scheme.



### Waste Batteries and Accumulators Directive 2006/66/EC

Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

Environment Agency producer registration number: WEE/JB0104WV.

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