LINCOLN Remote Control System

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

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.

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Freq (MHz)</th>
<th>Range** (Metres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINCOLN-4S1</td>
<td>1 channel System</td>
<td>433</td>
<td>100</td>
</tr>
<tr>
<td>LINCOLN-4S4</td>
<td>4 channel System</td>
<td>433</td>
<td>100</td>
</tr>
<tr>
<td>LINCOLN-4T4</td>
<td>4 channel Transmitter Keyfob</td>
<td>433</td>
<td>100</td>
</tr>
</tbody>
</table>

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

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 manner 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
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Enclosure dimensions:

LINCOLN-4S1
1 Relay Rx 33 x 81mm

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

<table>
<thead>
<tr>
<th></th>
<th>MIN</th>
<th>TYPICAL</th>
<th>MAX</th>
<th>DIMENSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage for +12Vd</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>Vdc</td>
</tr>
<tr>
<td>Supply Current: Quiescent</td>
<td></td>
<td></td>
<td></td>
<td>mA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>mA</td>
</tr>
<tr>
<td>All relays operating S1</td>
<td></td>
<td></td>
<td></td>
<td>mA</td>
</tr>
<tr>
<td>All relays operating S4</td>
<td></td>
<td></td>
<td></td>
<td>mA</td>
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<tr>
<td>Relay Rating**</td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20</td>
<td></td>
<td>+80</td>
<td>degC</td>
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<tr>
<td>Receiver Sensitivity</td>
<td>-105</td>
<td></td>
<td></td>
<td>dBm</td>
</tr>
<tr>
<td>Encoding System number of Combinations</td>
<td></td>
<td></td>
<td>1 Million</td>
<td></td>
</tr>
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</table>

**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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