This ULU

The *ULU.58 Remote switch* can be used to used set a signal line high or low or – in combination with the Signal to power adapter – to apply or cut power.

Used parts

The following standard parts are used:
1x casing 50 x 25 x 25mm;
1x 2mm signal connector;
1x black O-ring 9 x 5 x 2mm;
1x power connector;
2x 3mm round LED ;
2x resistor to dim the LED;
2x LED holder;
1x micro (G6K-2F-Y-5VDC) relay;
1x fly back diode (1N4148).

The following extra parts are used:
1x 433 MHz Wireless Remote Control Switch;
1x rubber cable-feedthrough.

Construction

The standard ULU specifications are applicable as specified in the datasheet *ULU.00 – Common specifications*.

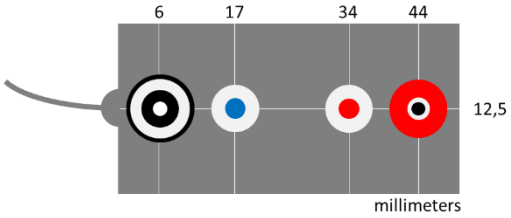

Figure 1 – Drill guide

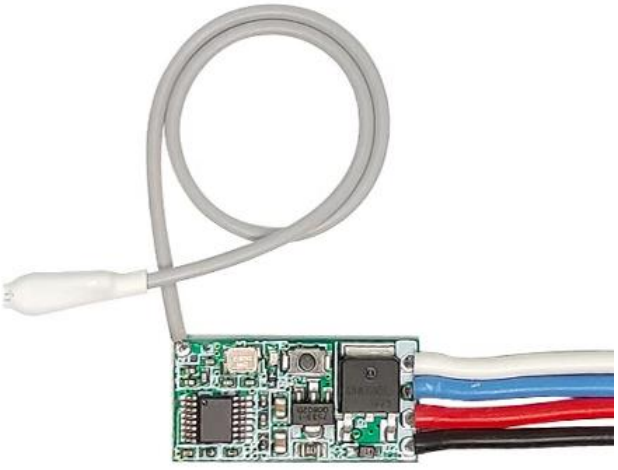

Figure 2 – The used 433MHz RF module

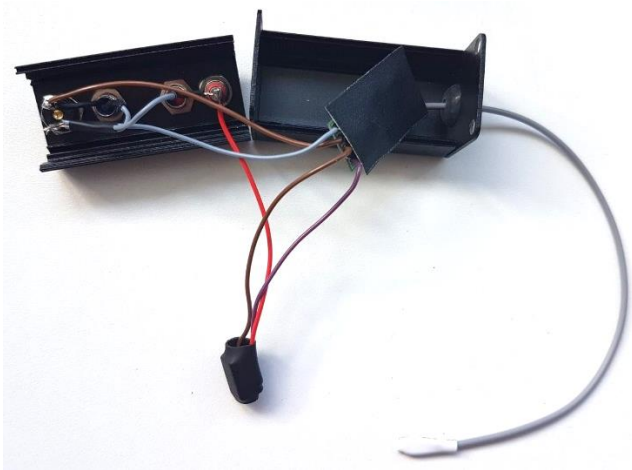

Figure 3 – ULU inside

Figure 4 – Finished ULU

Th stand-by LED is permanently connected to the power plug, it shows that the ULU is active and stand-by. The connection of the receiver module is straight forward. First the four big wires are removed and replaced with smaller wires. Then the power is connected to the input and the relay is connected to the output as show in Figure 6. A close-up of the relay can be found in Figure 5. Finally a piece of duct tape is used to avoid the PCB making unwanted contact with other parts (Figure 3).

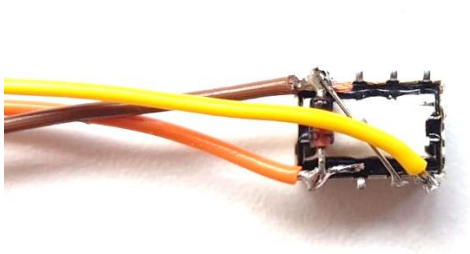

Figure 5 – The soldered relay

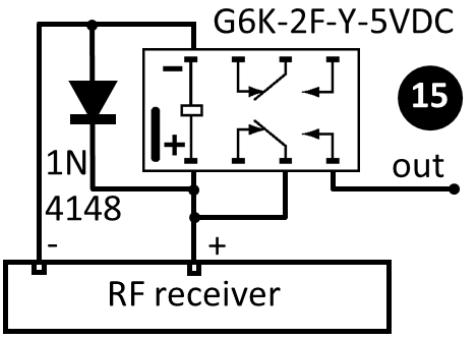

Figure 6 – Schematic

Usage

This ULU can be used set a signal line high or low, to enable or disable logic or – in combination with the Signal to power adapter – to apply or cut power. Pressing the “B” will enable, pressing the “A” will disable the relay.

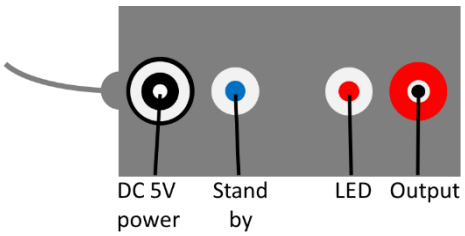

Figure 7 – Controls and connectors