



SWITCH Manual

remote control for electric switch



The gentLED switch. Allows control of cameras and other devices with electrical contacts.

Servo Operation

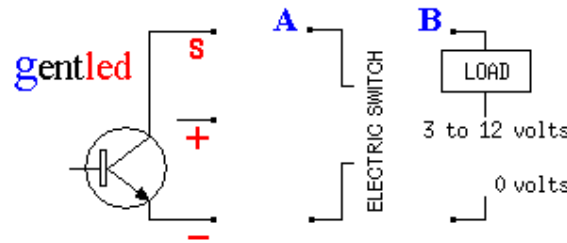
Connect the 3pin connector to a standard RC Receiver Servo output:

+ve to Red, -ve to Black, and servo to Yellow or white

Connect the load to the 3 pins. They are either marked **S**, **+**, **-** or the **S** pin is marked with a yellow dot.

With the blue wire not connected (more later) we are in the standard mode, and the output is on (shown by the RED LED lighting) when the stick on the transmitter is pushed over to "maximum".

With the LED lit, then the pins **S** & **-** are shorted out. This can be used as an electric switch, **A**.



This can be used for a camera trigger for example.

For control of other items like lights, solenoids, or small motors then connect as per **B**. Again note the polarity. Whilst the supply doesn't need to be the same as the RC receiver, do not use higher than 12V and the peak current should always be below 100mA.

For convenience the supply from the RC receiver is brought out to the centre **+** pin. This is not used in the above examples but could be used in other applications. In **B** for example the LOAD could use this supply pin.

NOTE: The three pin output of **gentled** SWITCH is NOT for a standard servo.

Blue Wire Options

The two further behaviours are possible by connecting the blue wire. These modes are normally used when you want more complex outputs from one RC channel, or one channel is shared between two devices.

With the blue wire connected to **BLACK** (either at the servo or switch end of the device) then the threshold of operation moves closer to the minimum on the joy-stick. If you have two devices on a Y lead to one RC channel then one will trigger before the other allowing progressive control of one output then additionally a second. This operation is also available in one unit using **gentled** FOCUS.

With the blue wire connected to **YELLOW** (from the **RC CHANNEL**) then as well as the changed threshold the output is inverted. Combining this mode with the original mode via a Y lead allows a center biased joystick to control one switch by pushing the joy-stick one way, and the other switch is triggered by pushing the other way. However in this configuration both devices cannot be triggered at once.

Specification

Supply Voltage	3 to 5.5V (absolute maximum voltage, 6.5V)
Supply Current	Typically 0.5mA otherwise. (this does not include any "load" current)
Servo Pulses	Pulse threshold between 1.6 and 1.7mS, In alternate modes, between 1.3 and 1.4mS. Pulses should be less than Supply V + 0.7V.
Output Current	Absolute maximum 100mA, (3 to 12 volts).
Weight	5 grams including 200mm wires & connector.

Diagnostics

Use a servo on the RC channel output and make sure that you are getting a full 90° movement for the stick extremes. Make sure the trim on the transmitter is set correctly, this will offset the stick position from the true center.