

# RCE200X SERIES DIGITAL SWITCHES

## MOUNTING

The RCE200 digital switch (D-switch) is small and light enough to be taped to a non-conductive surface or lashed with a tie wrap. A 3/4" piece of clear heat shrink tubing makes an excellent insulative cover. So it is included!

## DIMENSIONS

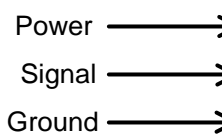
Width: 0.6" (15mm)

Length: 1.6" (41mm) (L model)  
2.0" (51mm) (H model)

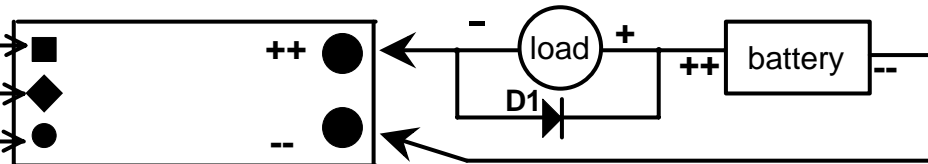
## HOOK-UP AND CONFIGURATION

You will need to solder a three-wire connector suitable for your R/C receiver to the left side of the RCE200 board. The standard colors of the conductors vary between manufacturers so double check their functions before proceeding. The top of the board has all of the components on it. The power pad is the only square one and toward the upper left.

### R/C Receiver Connections

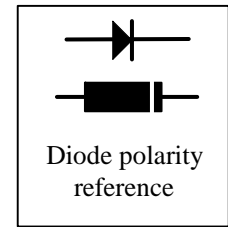


### Switched Load Connection



The right side of the board connects to the load you wish to switch on and off. You must connect the D-switch as shown or the switch will not appear to operate properly. Do not exceed the voltage or current specifications of the board or you will destroy it! This may seem like a pain, but it's actually a safety feature.

Diode D1 is optional but recommended if the load you are switching has high inductance, like a relay coil or motor. The diode will help absorb high voltage transients that often occur when these devices are switched off. A 1N4004 diode is included with your D-switch. The end of the diode with the white stripe goes toward the + end of the load.

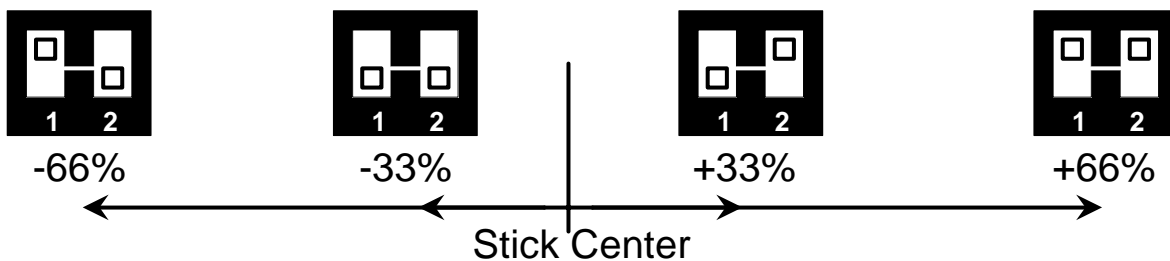


## OPERATION

The onboard LED will aid you in switch setup and display the status of your radio link in realtime:

- |            |  |              |                             |
|------------|--|--------------|-----------------------------|
| ○ Off      | The board is unpowered   | * Slow blink | Valid signal; switch is OFF |
| ● On solid | Transmitter fault: no valid signal detected (switch is OFF for safety) | * Fast blink | Valid signal; switch is ON  |

Two DIP switches set the transmitter stick threshold for turning the switch on. You may alter the switch configuration "on the fly" to test out the various thresholds. You may need to adjust the trim on your transmitter stick for best operation.



## SPECIFICATIONS

- Supply voltage: 3.8 - 5.5 VDC (four Rx NiCads *max!*)  
Supply current: 13ma, "L" model  
20ma, "H" model  
Load rating: 0-60 VDC at 5.0A "L" model  
0-60 VDC at 10.0A "H" model  
Switching time: 5.0 milliseconds  
Switch resistance: 0.025 ohms "L" model  
0.012 ohms "H" model

### Package Contains:

- "L" model: 0-60 volts, 5.0 amps **MAX**  
(two black chips and a switch)
- "H" model: 0-60 volts, 10 amps **MAX**  
(three black chips and a switch)