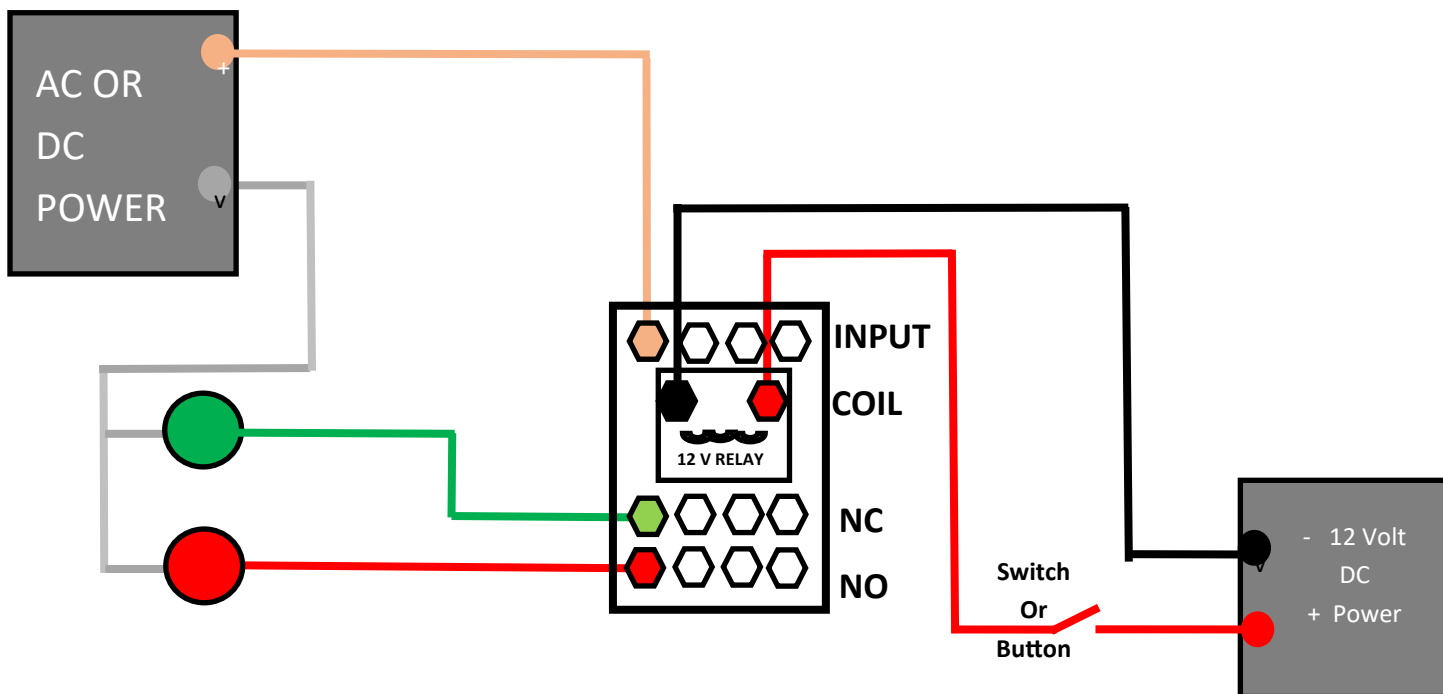


Simple Relay to change a Light



The wiring shown above is to operate a signal light.

This relay can operate up to 4 separate things at once.

All the items will change at the same time either turning on or off.

Notice that the Red wire from the DC power to the Red tab has a switch in open position which will allow the green light to work as it is wired.

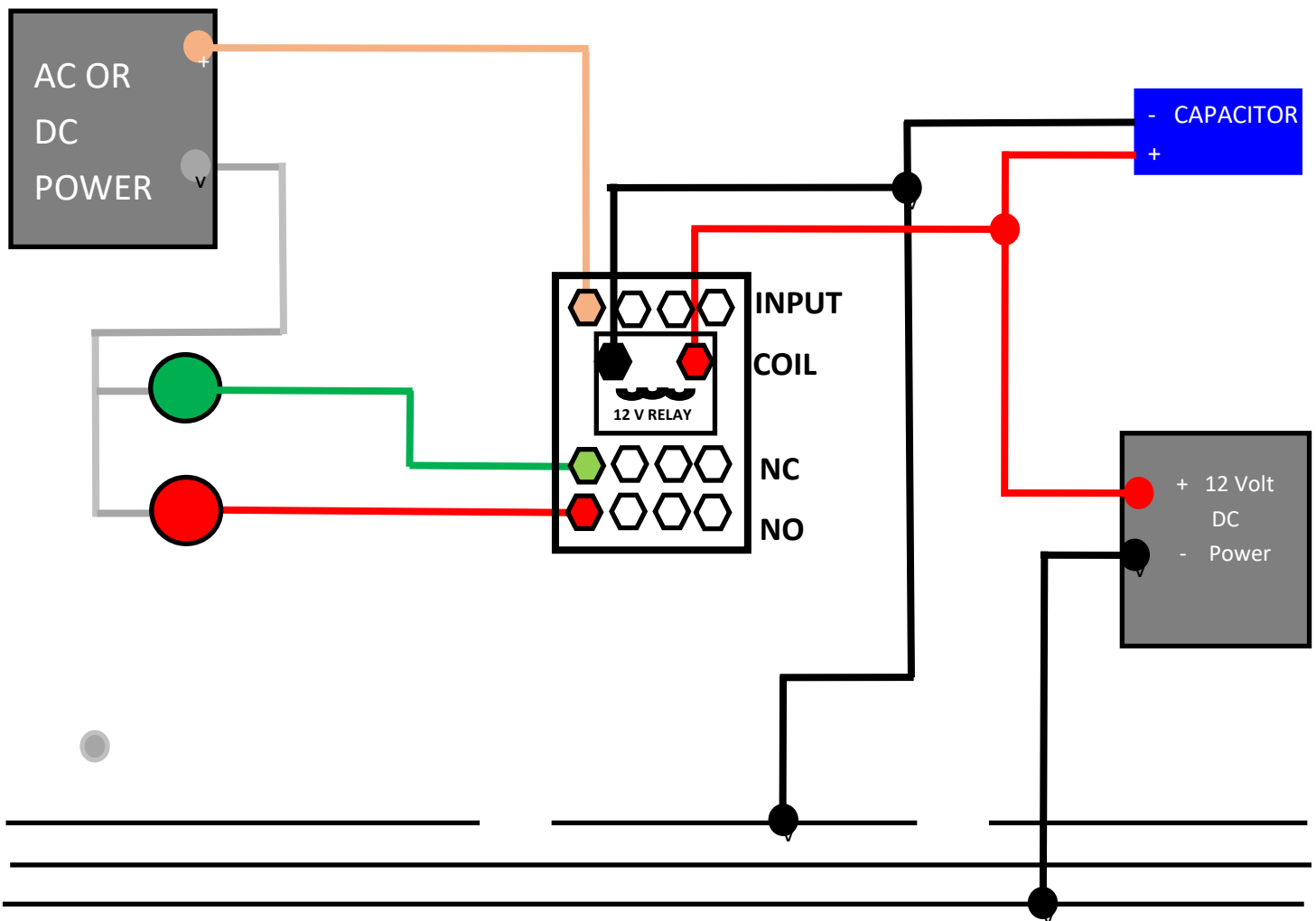
Close the switch and the Green light will go out and the Red light will turn on

One wire the orange hot in this case goes to the input site of the relay cube.
The other White Wire shown as Gray goes to both lights.

Green to the Green Light and Red to the Red light.

I am using the colors assigned to 12 Volt DC and 12 Volt AC
Red Positive - Black Negative for DC
White Common - Orange Hot for AC

Relay activated by the wheels from a train



This is where the Capacitor really comes into play to stop the chatter from the train wheels rolling across the track.

The negative line from the DC Power can be run across the common AC track in this case the outside rails.

Attach the power lead to the ground or common or to a section of track that is always directly connected to the AC transformer.

Isolate a section of rail that you want the light to be changed when the track is occupied.

Attach a wire from the isolated section of track to the negative side of the relay.

When the train wheels roll across the track that is isolated they will activate the relay causing the relay to change turn on the open connection. This will then turn the green light off and the Red light on.