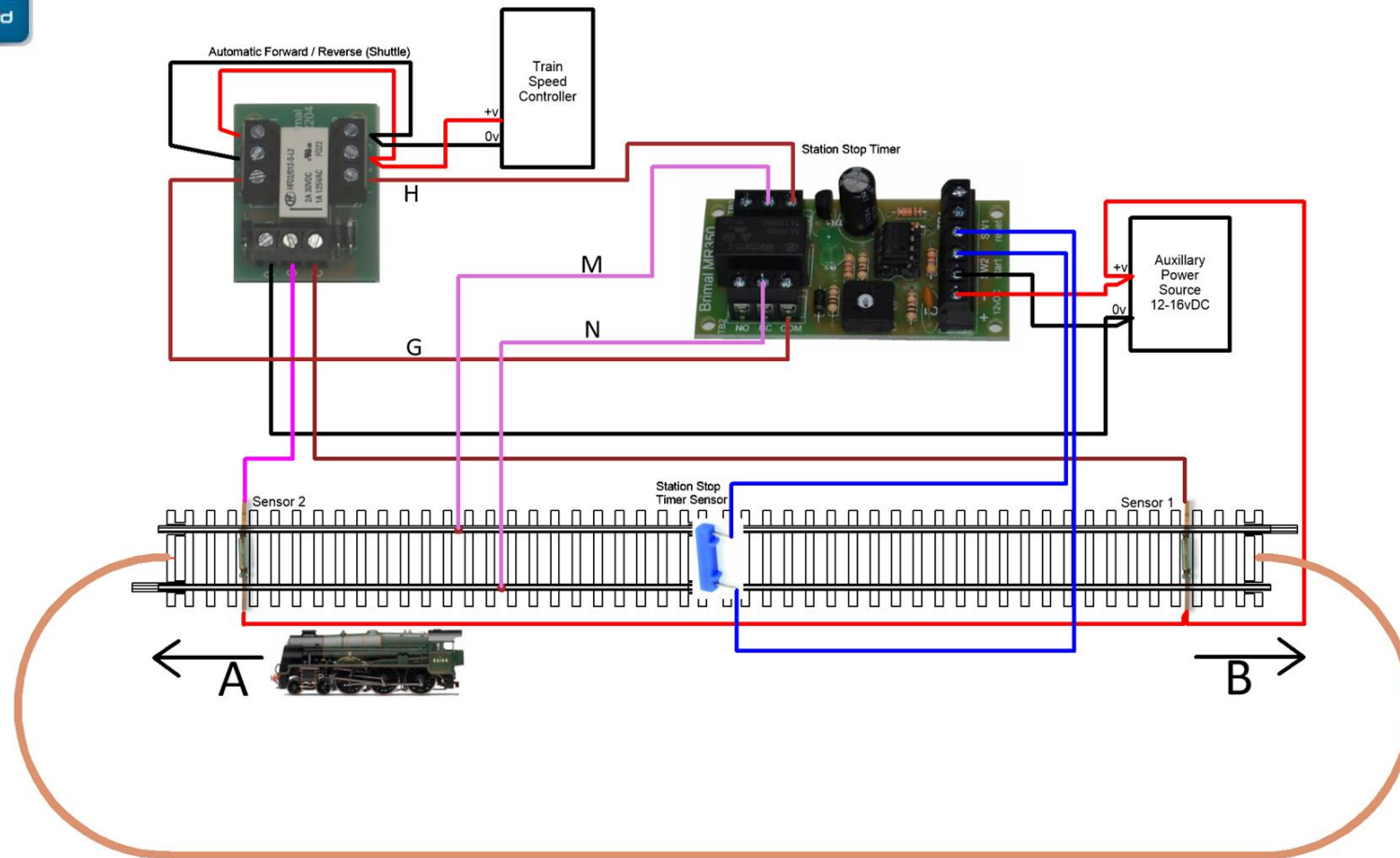


Automatic Forward / Reverse (Shuttle) & Timer



In this application the MR204 is used as a Automatic Forward / Reverse (Shuttle) Control. Sensor 1 and Sensor 2 could be placed anywhere on a loop, or even back to back. The train will run from Sensor 2 to Sensor 1, when it passes sensor 1 the circuit will change the polarity of the tracks putting the train in reverse. The train will now travel in reverse until it passes over sensor 2, at which time the MR204 will again change the polarity of the track putting the Train into forward again.

This will continue until power is removed from the system.

You could now add a timer into the system so that the Train stops somewhere for a predetermined period. It can be anywhere, where the sensor is placed.

The Sensor for this is marked 'Station Stop Timer Sensor' this activates a timer which cuts power to the track, thereby stopping the Train at that sensor position.

Wires 'H' & 'G' where going to the track, now they go to the COM on the Timer relay. 'M' & 'N' wires go from the relay back to the track. M&N must be connected to the NC (normally closed) contacts on the relay as shown.

The Train Stationary time is adjusted by turning the preset on the timer board. Please see the separate instruction sheet for the MR350.

By adding a toggle switch to the 0V line from the Auxiliary Power Source you can disable the MR204 & the MR350 so the polarity remains the same, and the timer is OFF.