

● Title: **Reversing Sensor Output**

● Date: **02/18/03**

Discussion: RaceAmerica Track Sensor models 5100 and 5140 typically operate as a closed switch to ground when the infra-red beam is established and an open circuit when the beam is blocked.

To enable RaceAmerica track sensors to interface to non-RaceAmerica timers, it is sometimes necessary to reverse the response of the sensor to match a timer's input requirements.

With the addition of this circuit, blocking the beam sends a low signal (output grounded) to the timer. A properly aligned beam causes a high signal (open circuit) to be sent to the timer, the addition of a pull-up resistor R2 will cause the circuit output to be pulled to 12V in place of an open circuit.

