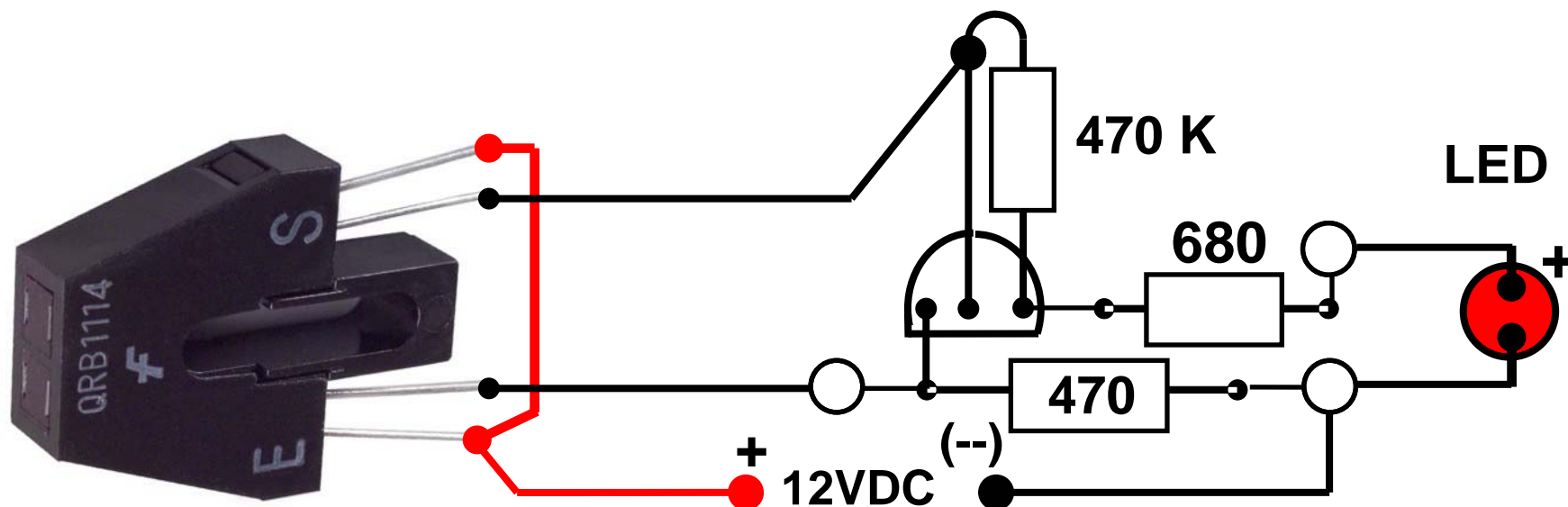


Subject: WISE IR Circuit

Date: Sept. 22, 2009

WISE Div. meet of Sept. 20, 2009 Award of SECOND PLACE for:
"Testing of an IR Sensor" in the GENERAL contest at Milwaukee, WI.
Copy of the IR Circuit used on the working display at the WISE meet.



www.digikey.com/ SENSOR PHOTOTRAN IR NPN REFLECTIVE QRB1114 TRANS NPN DARL BIPO MPSA27

Testing of an IR Reflective Sensor with a black HO Tank car.

Remarks:

The display at the WISE meet showed the operation of an LED with a single IR Reflective Sensor QRB1114. For a dual IR Reflective circuit, see the October 2009 issue of Model Railroader, the article "Simple train detection" on page 64. The QRB1114 is sensitive to the **direct viewing** of incandescent overhead lights or sun light in your train room. It can sense your finger about $\frac{1}{2}$ " to $\frac{3}{4}$ " away in a room with overhead fluorescent lights.

Robert Frey Website: <http://bobfrey.auclair.com>