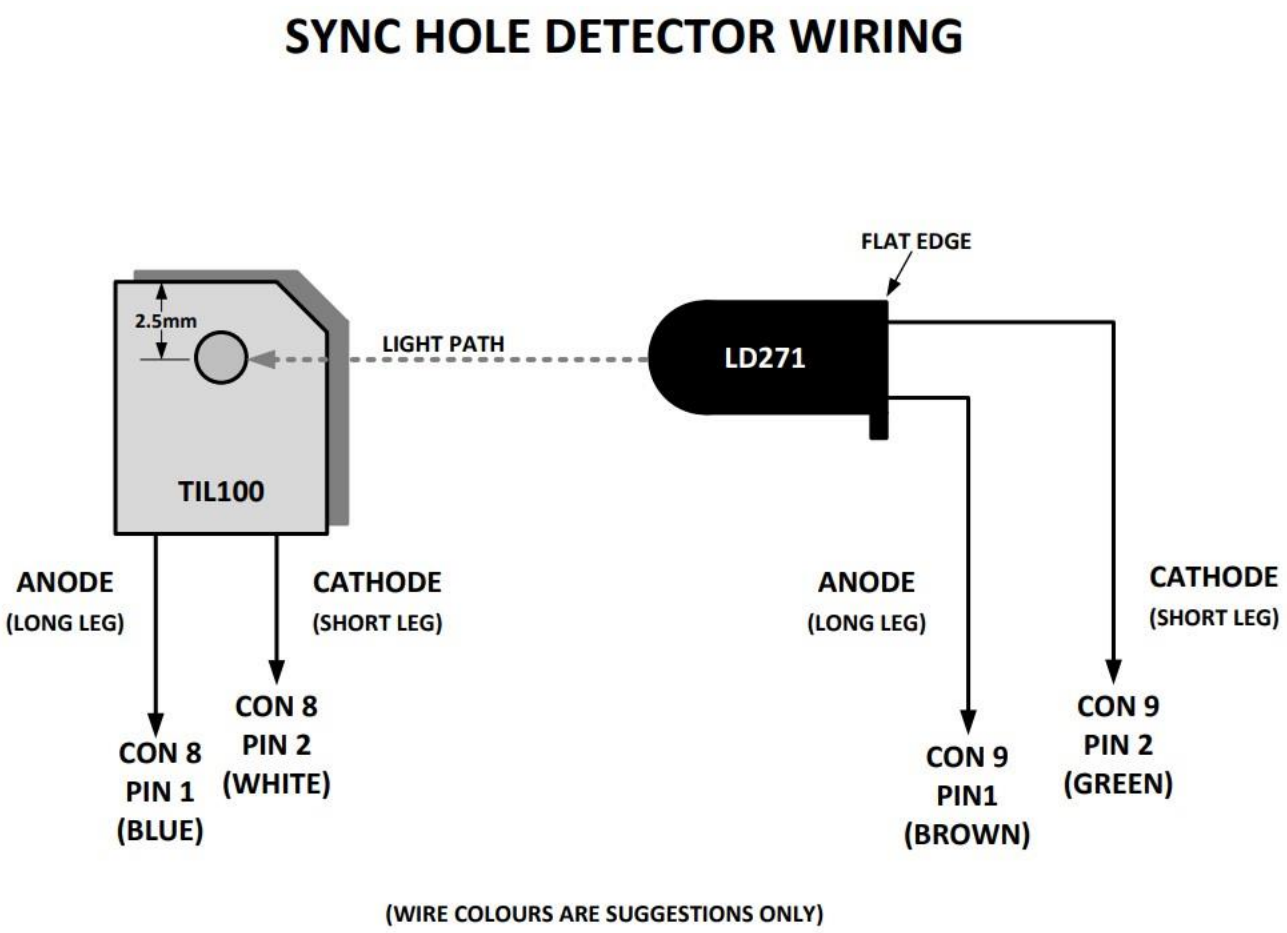
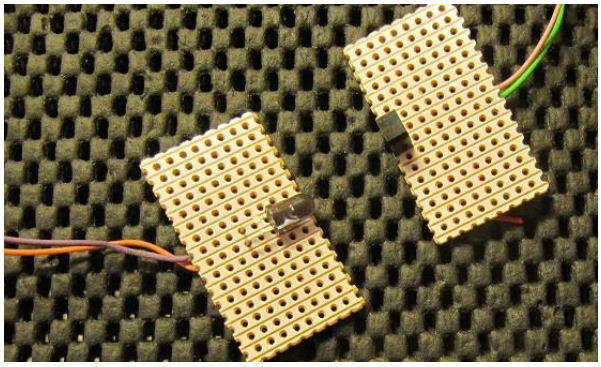
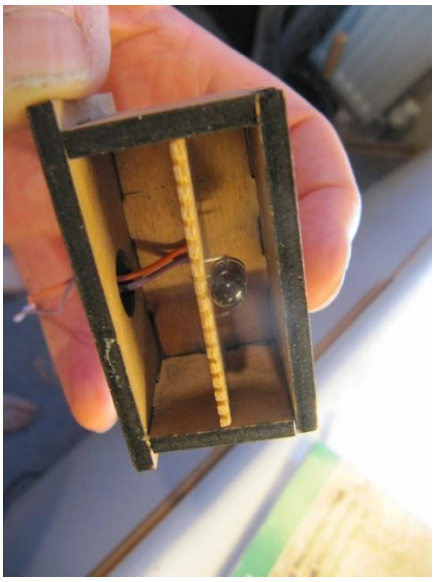
Chapter 7 Sensor housing

Two laser-cut sensor housings contain components to detect the speed and relative position of the disc. The laser cut designs are [may be found here](#) , one housing contains an infra-red-light source whilst the other an infra-red detector. At this stage we need to paint the inside of both enclosures matt black and mount the devices on a small piece of stripboard the size of the inside of the enclosure and solder one wire approx. 400mm long to each leg.







Place the two pieces of stripboard inside the two enclosures as shown here on the left, align the two components then glue the stripboards into position. Feed the two cables through the bottom of the units. Store the two completed units safely.

Should you not have access to laser cutting facilities then you can mount as shown below. Do not drill fixing holes in the base unit until testing when the final optimum mounting position is certain.