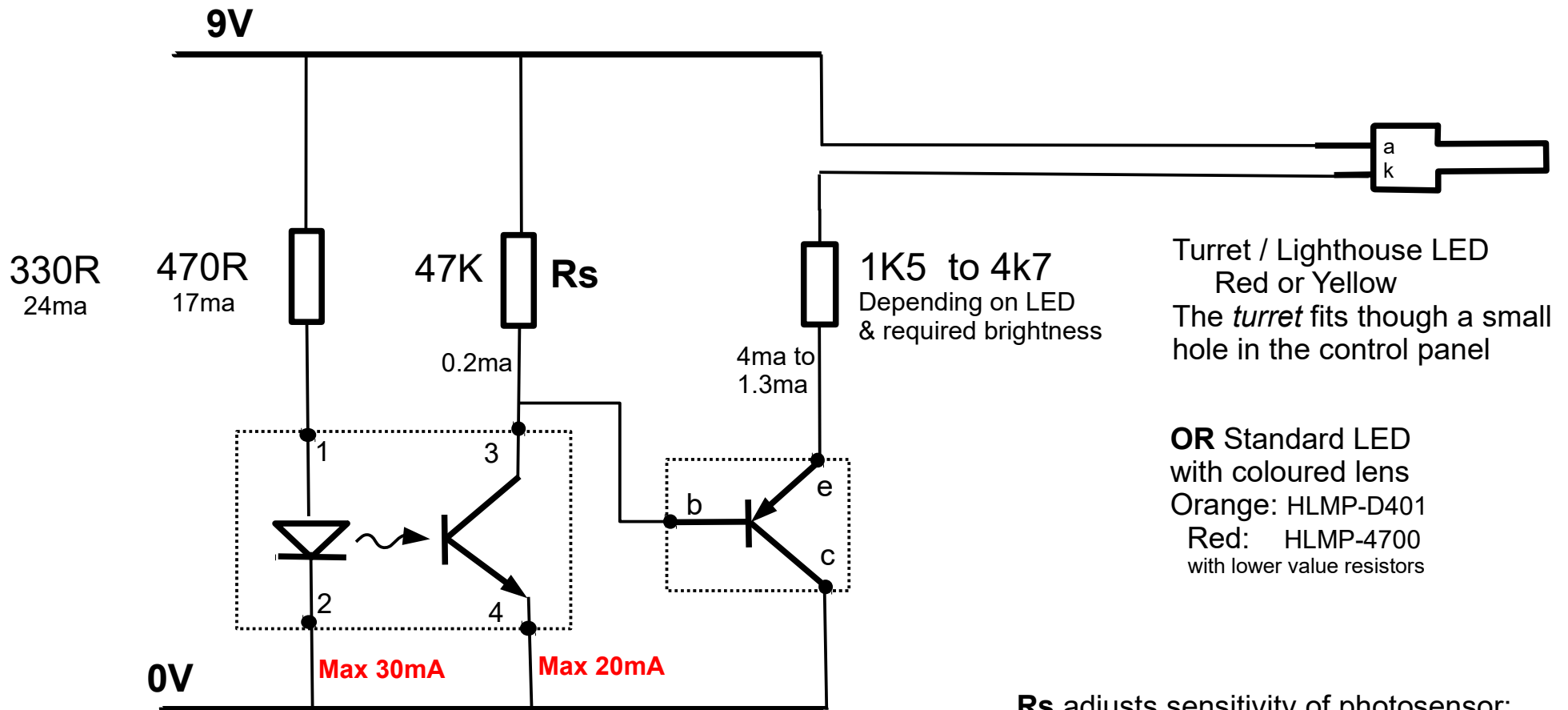
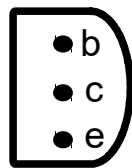
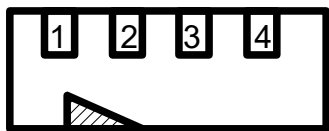


# Train Sensor Circuit for direct connection to an LED



Kingbright Photointerrupter  
KRC011

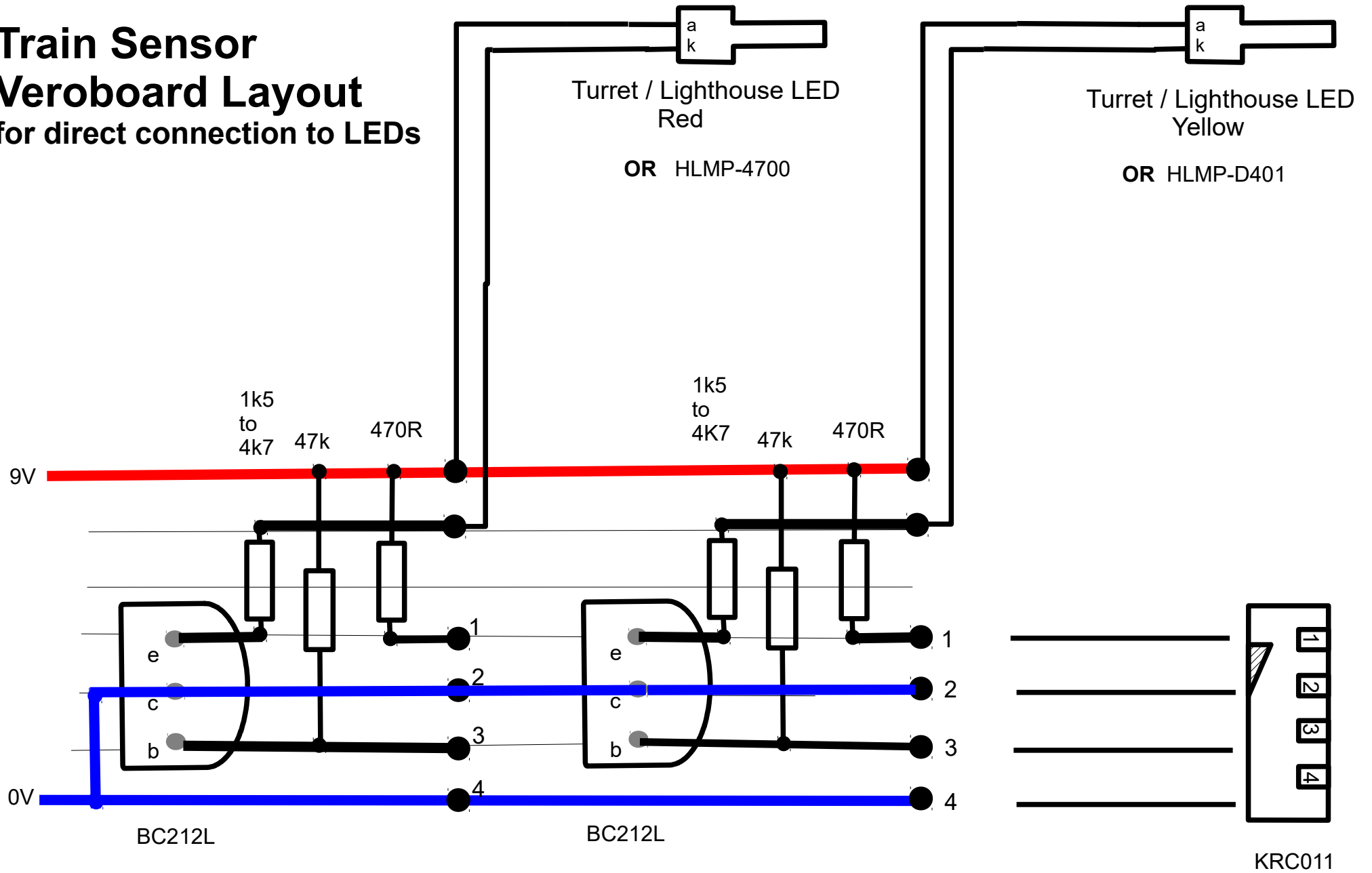


PNP Transistor  
BC212L

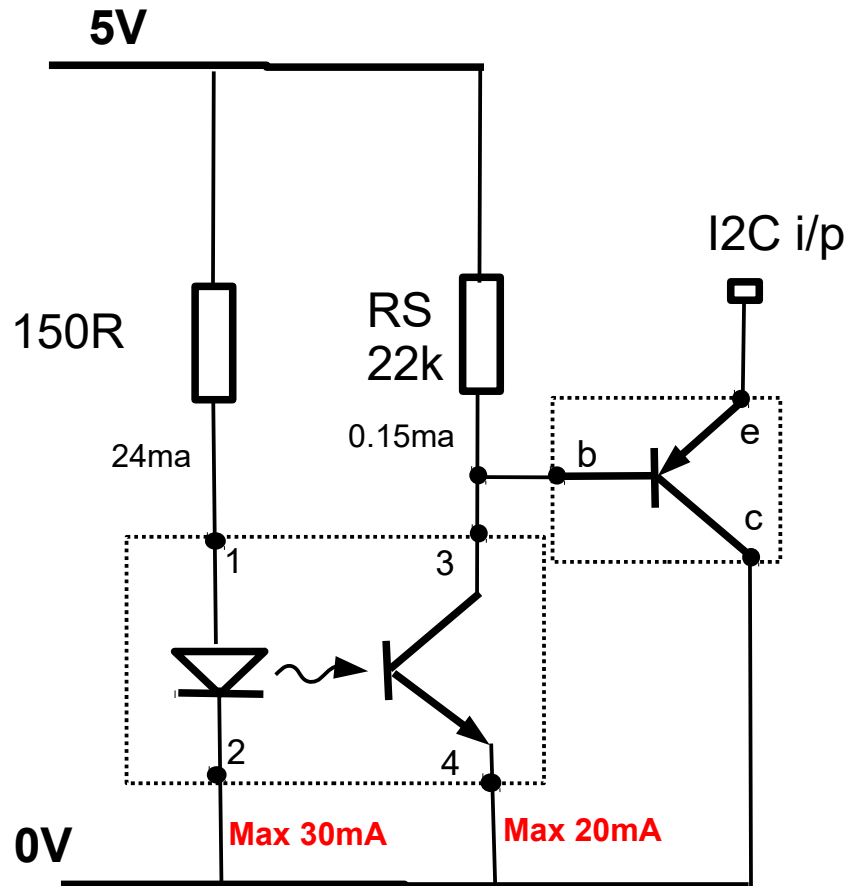
**Rs** adjusts sensitivity of photosensor;  
decrease to reduce sensitivity.

Rs	Sensing distance
100k	5mm
47k	3mm
33k	2mm
22k	1mm

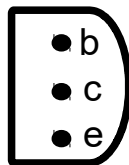
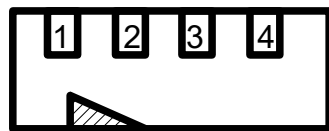
# Train Sensor Veroboard Layout for direct connection to LEDs



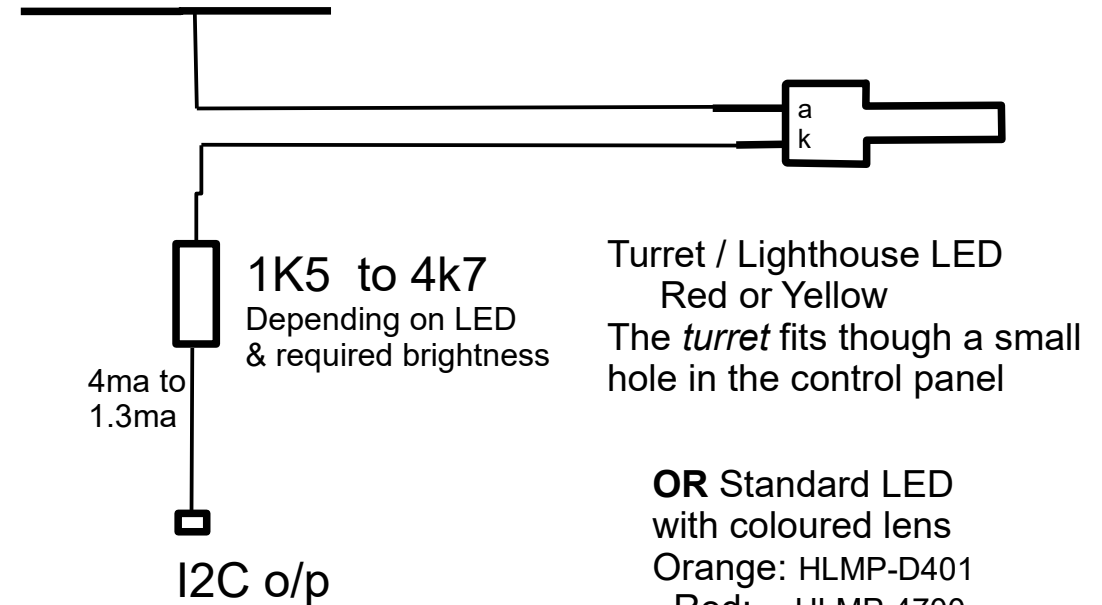
# Train Sensor Circuit for use with I2C Data Bus



Kingbright Photointerrupter  
KRC011



PNP Transistor  
BC212L



Turret / Lighthouse LED  
Red or Yellow  
The *turret* fits through a small hole in the control panel

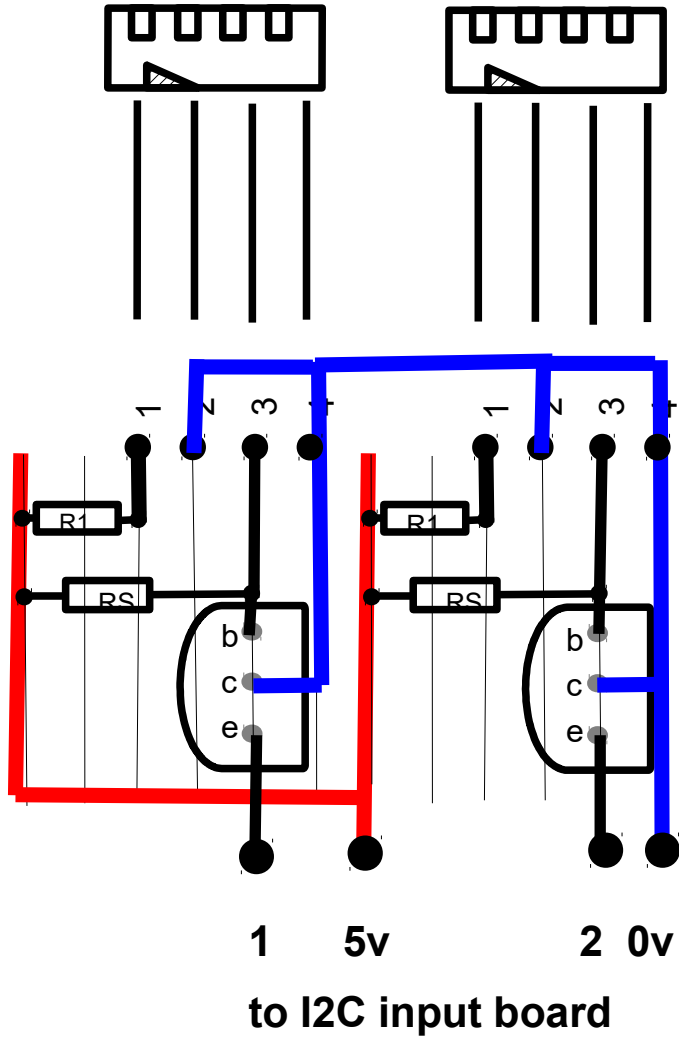
**OR** Standard LED  
with coloured lens  
Orange: HLMP-D401  
Red: HLMP-4700

**Rs** adjusts sensitivity of photosensor;  
decrease to reduce sensitivity.

Rs	Sensing distance
50k	5mm
22k	3mm
15k	2mm
10k	1mm

# Train Sensor Veroboard Layout for connection to I2C Data Bus

Pair of Sensors



Group of four Sensors

