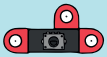
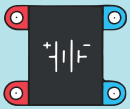
L600 TWILIGHT SWITCH


1x potentiometer

1x bulb

1x transistor PNP

2x transistor NPN


1x battery

1x

2x

3x

2x

4x

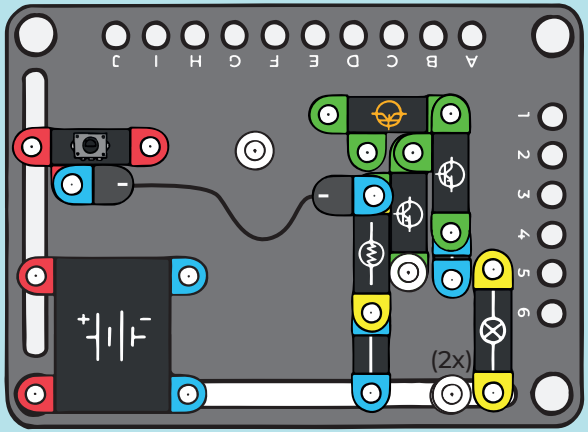
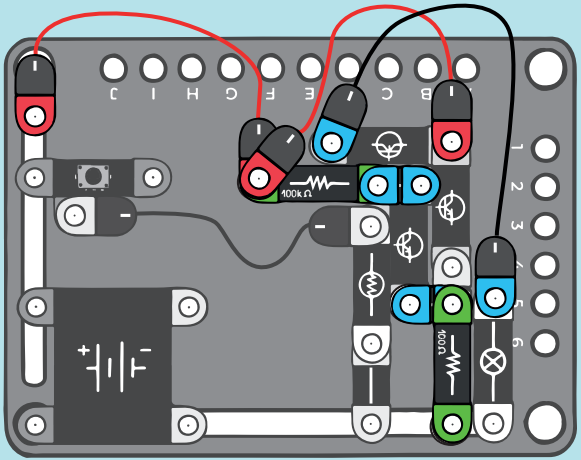
1x resistor 100Ω

1x fotoresistor

1x resistor 100kΩ

You can also use the Schmitt circuit to detect darkness. A voltage divider of the resistor and the photoresistor evaluates the Schmitt circuit, which turns on the bulb through the PNP transistor. If the photoresistor is well lit, the bulb will not light up. If it is shaded, the bulb lights up in full brightness thanks to the Schmitt circuit, and its brightness does not depend on the level of illumination as is the case in the following builds: L480 and L500. The level of shading when the bulb is to light up can be set with a potentiometer.

1.



2.