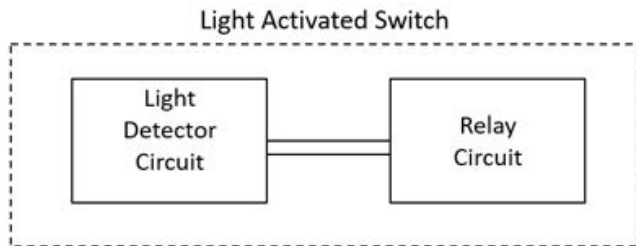


Challenge

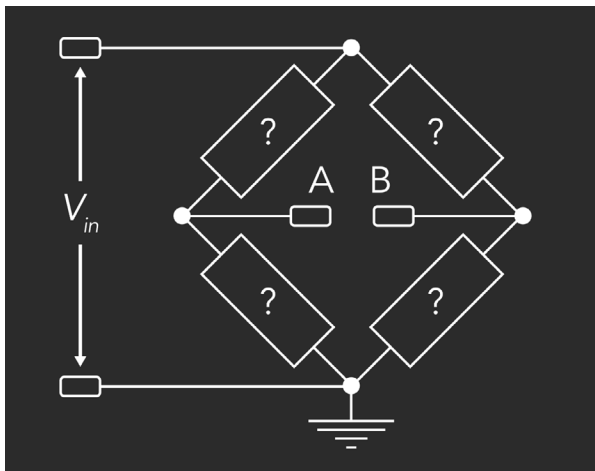
Challenge: Design the light detector circuit for a light-activated switch.



Circuit Description

The light detector circuit is built using a Wheatstone bridge to produce a differential output voltage.

- When the circuit is under light, Voltage A should be greater than Voltage B.
- When the circuit is in the dark, Voltage B should be less than or equal to Voltage A.



Goal: Determine the value and location of the following components within the Wheatstone bridge.

- Photoresistor (approximately 1 k Ω in the light/10 k Ω in the dark)
- Variable resistor
- Constant-value resistors