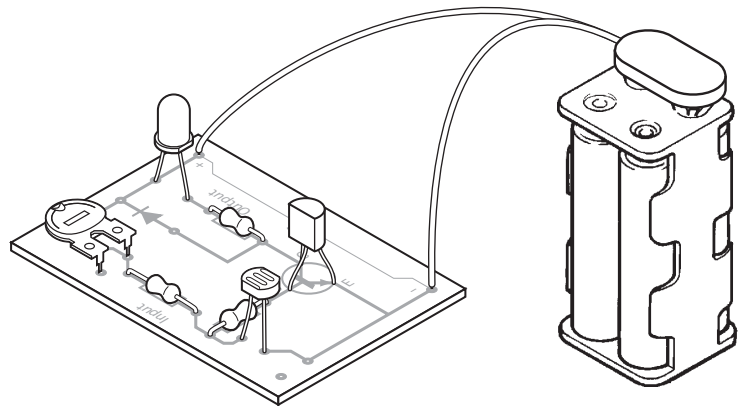


# LIGHT SENSOR KIT

Code: PAC 2001 (10 pack)

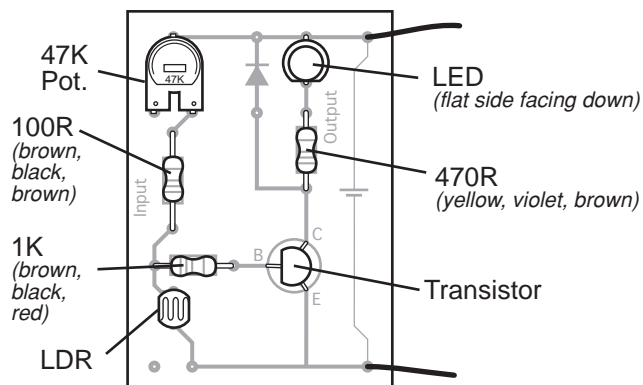
## Contents:

- 10 x PCB
- 10 x BC548 transistor
- 10 x Mini-LDR
- 10 x 1K resistor
- 10 x 100R resistor
- 10 x 470R resistor
- 10 x Standard LED
- 10 x 47K potentiometer
- 10 x Battery connector



This general purpose light sensing circuit uses a mini light dependent resistor (LDR) to detect changes in the level of light. It is designed for use with a 3V - 9V battery. When the components are connected as shown below, the LED will light up when the sensor is in darkness. The sensitivity of the circuit can be set by adjusting the potentiometer.

- *In bright conditions the LDR has a low resistance and so the transistor is switched off. The LED is therefore off.*
- *In dark conditions the LDR has a high resistance and so the transistor is switched on. The LED therefore lights up.*



To make the LED light up when the sensor is in bright light the positions of the LDR and the potentiometer should be swapped. A different value potentiometer may be needed, depending on the sensitivity required.

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