**Light sensor/Light dependent Resistor (LDR)/photoresistor**

A Light Sensor is something that a robot can use to detect the current ambient light level - i.e. how bright/dark it is. There are a range of different types of light sensors, including 'Photoresistors'.

A photoresistor or LDR changes its resistance analogue value (0-1023) based on the amount of light that falls upon it. The net effect is an improvement in its conductivity with a decrease in resistance for an increase in illumination. Also, photoresistive cells have a long response time requiring many seconds to respond to a change in the light intensity.



