INTERFACING HW072 LDR SENSOR WITH ESP32 DEV BOARD

I have interfaced the digital HW-072 LDR Sensor with the ESP32 microcontroller. It detects light and gives output as '0' or '1'. If there is light, it returns 0 and when there is no light, it returns 1. Analog sensor will have range from 0 to 1024.

Read about HW-072 LDR Sensor here: <u>LDR (Photoresistor) Pinout, Working,</u> Applications & Datasheet (components101.com)

The datasheet and the code for interfacing the LDR is attached in the folder.

Now, coming to the hardware part, 3 pins are connected to the microcontroller:

- 1. The VCC pin and GND of the LDR is connected to the 5V pin and GND pin of ESP32.
- 2. The D0 pin of the LDR is connected to the GPIO 18 pin of ESP32.

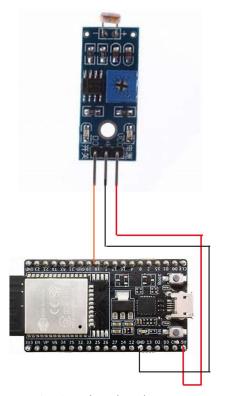


Fig 1: Circuit Diagram

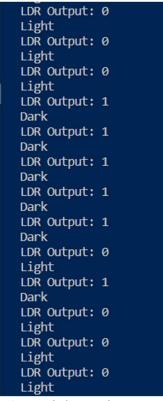


Fig 2: Serial Monitor Output

The programming is done in PlatformIO in VSCode and the output connections can be connected to your choice and operated based on the applications.