SPRO3 report

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HX711 Interface Module and Load cell

Definition: A Load Cell serves as a sensor that transforms applied force, encompassing pressure, rotational force, compression, or tension, into quantifiable electrical signals. The load cell generates an output in millivolt range; therefore, it is essential to magnify this signal into a higher-level amplitude and subsequently convert it into a digital format for further processing. To accomplish this task, we employ the HX711 interface module. This module serves to amplify the load cell's low-voltage output and transmit it to the Arduino for weight calculation. The illustration below depicts the HX711 interface module.

