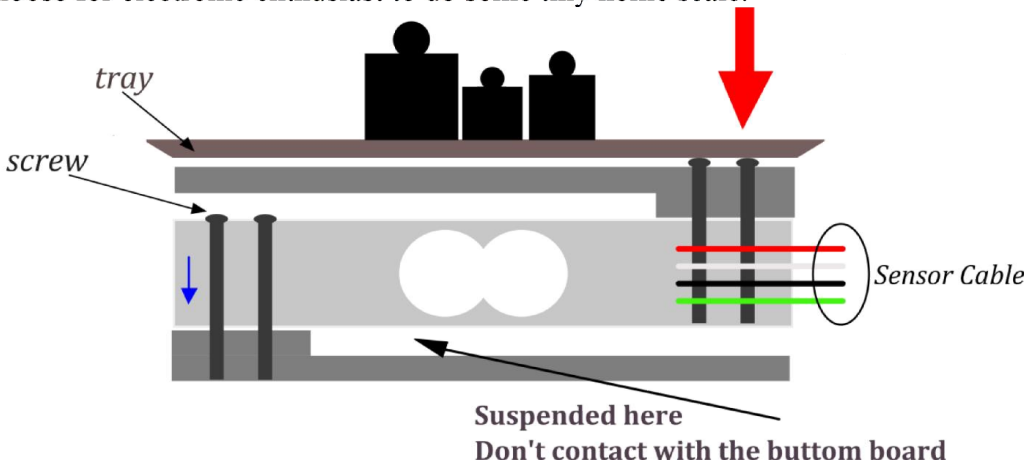
Weight Sensor Module

Product Code: SEN0160
Supplier: DFRobot

Introduction
Weight Sensor Module is based on HX711, which is a precision 24-bit analog-to-digital convertor designed for weight scale and industrial control applications to interface directly with a bridge sensor. It not only has a few basic functions, but also contains high integration, fast response, immunity, and other features. This weight sensor lowers the cost of the electronic scale, and at the same time improving the performance and reliability. The input interface is compatible with Arduino I/O port. The output adopts compact terminal that makes the sensor easier to connect. It's the best choose for electronic enthusiast to do some tiny home scale.



Specifications
24-Bit Analog-to-Digital Converter for Weight Scales (HX711)

- Two selectable differential input channels
- On-chip active low noise PGA with selectable gain of 32,64 and 128
- On-chip power supply regulator for load-cell and ADC analog power supply
- On-chip oscillator requiring no external component with optional external crystal
- On-chip power-on-rest
- Simple digital control and serial interface: pin-driven controls, no programming needed
- Selectable 10SPS or 80SPS output data rate
- Supply Voltage: 2.6V~5.5V
- Current: <1.6mA

Weight Sensor Module

- Range:1kg
- Excitation voltage: 5-15 V
- Output sensitivity: 1.0±0.15mV/V
- Synthetical error: 1 per thousand cent of full scale
- Zero shift: 0.05/0.03 (10min) %F.S
- Zero temperature shift: 0.05/0.03 %F.S/10°C
- Zero output: ±0.1mV/V
- Input impedance: 1055±15 Ω
- Output impedance: 1000±5 Ω
- Overload capability: 200 %F.S
- Output: Analog output
- Size: 33mm*38mm