

RPM Measure

The diagram shows the RPM measurement circuit. The input signal **COIL_SENSE** is connected to a diode **D4** (cathode to ground, anode to the signal). The signal then passes through a resistor **R18** and a capacitor **C11** (connected to ground). The signal then passes through a resistor **R17** to ground. The output of the optocoupler (PC81710NIP1B) is connected to a 3V3 supply through a resistor **R16**, and the output signal is **PULSE_SIG**.

The diagram illustrates the electrical connections for the Piezo sensor module. It features a 3V3 power supply connected to a voltage divider network (resistors R11 and R13) to provide a reference voltage. The piezo signal is connected to a buffer circuit, which includes a resistor (R20), a diode (D8), and another resistor (R21) connected to the piezo output. A capacitor (C12) is connected to ground to filter the signal.

HX711 Amplifier

The circuit diagram illustrates the HX711 Amplifier setup. The HX711 IC (IC2) is connected to a 3.3V supply (V_3V3) via a 0 Ohm jumper (R15). The IC is also connected to ground (GND). The input stage consists of a bridge circuit with resistors R6, R7, R8, and R9, and capacitors C7, C8, C9, and C10. The output stage is a differential amplifier with transistors Q3 and Q4, and resistors R10 and R11. The output is connected to the STRAIN_DO and STRAIN_SCK pins of the IC.

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