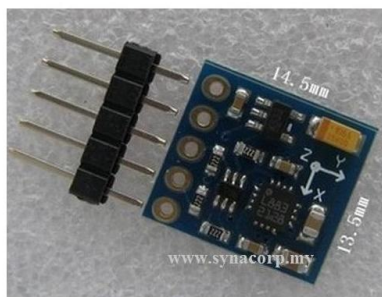


ARDUINO GY-271 3-AXIS ELECTRONIC COMPASS MODULE



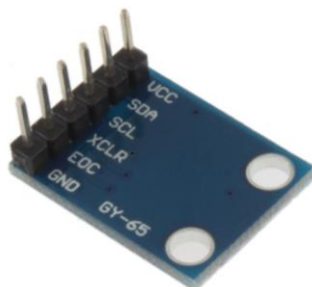
This is a breakout board for Honeywell's HMC5883L, a 3-axis digital compass. It is designed for low-field magnetic sensing with digital interface and perfect to give specific heading information. The sensors will convert any magnetic field to differential voltage output on 3 axes. This voltage shift is the raw digital output value that can be used to calculate headings or sense magnetic field coming from different directions. Communication with the HMC5883L is simple and all done through an I2C interface. There is an on board regulator. The breakout board includes the HMC5883L sensor and all filtering capacitors as shown. The power and 2-wire interface pins are all broken out to a 0.1" pitch header.

Technical Specifications:

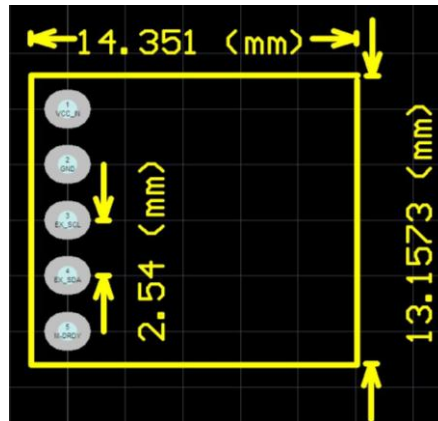
- Power 3V-5V DC
- Uses famous HMC5883L magnetometer chip
- Communication via I2C protocol
- Measuring range is $\pm 1.3-8$ Gauss
- PCB thickness : 1.60mm

Pin-outs

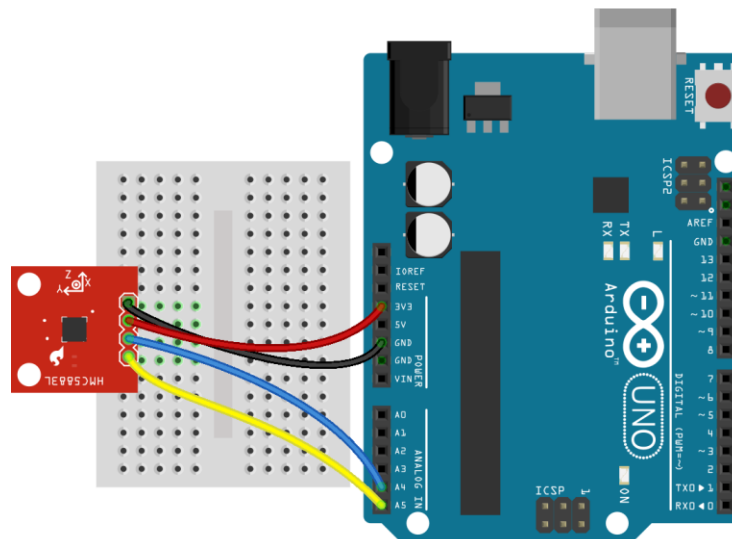
1. VCC : 3-5V power supply
2. GND : 0V GND power
3. SCL: I2C Clock Input
4. SDA : I2C Data IO
5. DRDY: Data Ready Output



Dimension:



Wiring Diagram:



Schematic Diagram:

