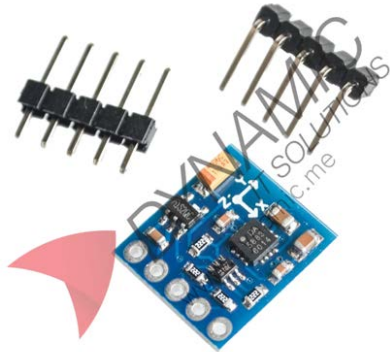


3-Axis Compass Magnetic Field Sensor

GY-271 HMC5883L



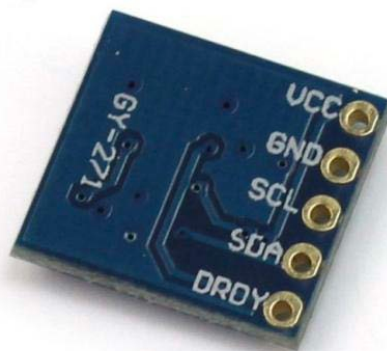
Features:

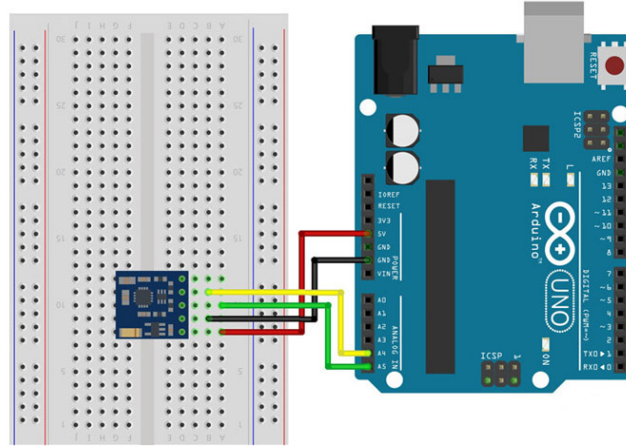
The GY-271 HMC5883L module is a 3-axis digital magnetometer designed for low-field magnetic sensing with a high-resolution I2C digital interface. It efficiently converts magnetic fields into differential voltage outputs for all three axes, enabling accurate heading and orientation determination. Commonly used in UAVs, robotic navigation, and embedded electronic compasses, it supports 3V–5V operation for flexible integration with Arduino and other microcontrollers.

Specifications	
Power Supply	3V–5V DC
Chipset	HMC5883L
Communication	I2C Protocol
Measuring Range	± 1.3 –8 Gauss
Dimensions	14.8 x 13.5 x 3.5 mm
Usage	UAVs, drones, robotic navigation systems

Pinouts:

Pin Name	Type	Description
VCC	Power	3V–5V DC input
GND	Ground	Ground connection
SCL	Input	Serial clock line (A5)
SDA	Input	Serial data line (A4)
DRDY	Output	Data ready (not connected by default)





Product Pictures:

