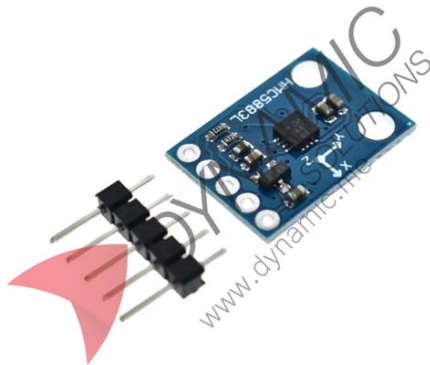


## GY-273 HMC5883L Magnetometer Compass Sensor



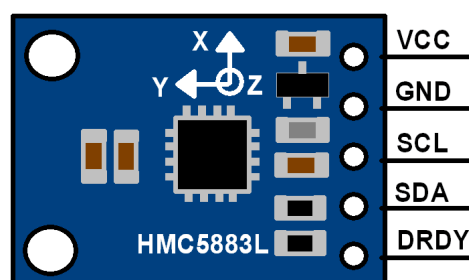
### Features:

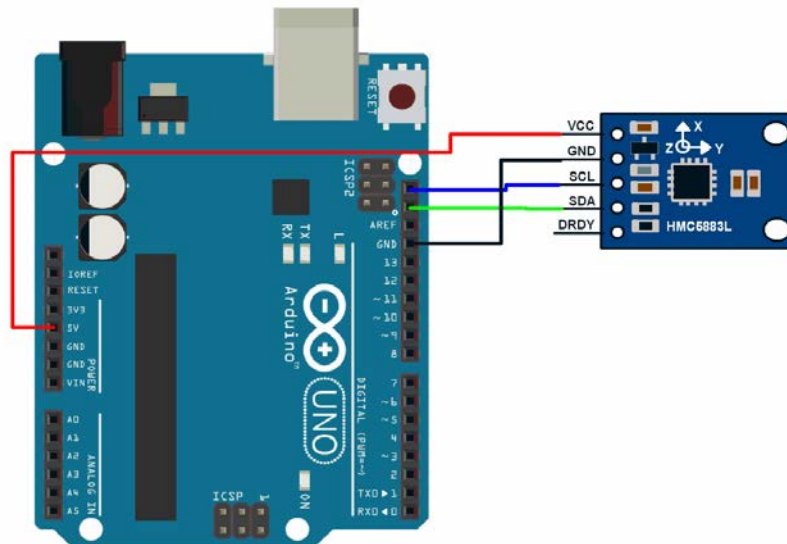
The GY-273 HMC5883L module is a 3-axis magnetometer designed for precision magnetic field measurement and digital compass applications. Built around the HMC5883L chip, it communicates over I2C using address 0x1E, making it compatible with most microcontrollers. The sensor can detect magnetic fields in the  $\pm 1.3$  to  $\pm 8$  Gauss range and outputs data for orientation and heading calculations. Its compact PCB and low power consumption make it suitable for portable, drone, and robotic applications requiring reliable direction sensing.

| Specifications          |                                                                         |
|-------------------------|-------------------------------------------------------------------------|
| Model                   | GY-273                                                                  |
| Chip                    | HMC5883L                                                                |
| Measurement Range       | $\pm 1.3$ to $\pm 8$ Gauss                                              |
| Communication Interface | I2C                                                                     |
| I2C Device Address      | 0x1E                                                                    |
| Slave Write Address     | 0x3C                                                                    |
| Slave Read Address      | 0x3D                                                                    |
| Power Supply            | 3V – 5V                                                                 |
| Size                    | 1.8 × 1.3 cm                                                            |
| Pins                    | 5 (VCC, GND, SCL, SDA, DRDY)                                            |
| Usage                   | Magnetic field measurement, electronic compass, and orientation sensing |

### Pinouts:

| Pin Name | Type   | Description                        |
|----------|--------|------------------------------------|
| VCC      | Power  | Connect 3V–5V DC supply            |
| GND      | Ground | Ground connection                  |
| SCL      | Input  | I2C clock input from master        |
| SDA      | I/O    | I2C data line for communication    |
| DRDY     | Output | Data Ready status signal to master |





### Product Pictures:

