

## KE2069 KEYES Electromagnet Module

### Description:

This module mainly contains an electromagnet. A magnet that generates a magnetic field from an electric current. It uses the principle of electro-magnetic. With a straight metal wire passing through the current, the space around the wire will produce a circular magnetic field. In order to concentrate the magnetic field, the coil inside the electromagnet is wound into a coil, and many lines are arranged side by side, so that all the magnetic fields of the coil pass through the center of the coil, forming a strong magnetic field there, which can make it absorb a 1kg ferromagnetic. When using this module, you can control the electromagnet on and off by controlling the High or Low level on its Signal end.

When using, we can connect the module to the arduino MCU. After using 5V power supply, connect the SIG pin of the module to the PWM port of the arduino board, set the PWM value, and adjust the magnetic field of the module. The larger the PWM value, the larger the magnetic field.



### Insrtuctions:

[https://wiki.keyestudio.com/KS0320\\_Keyestudio\\_Electromagnet\\_Module\\_\(Black\\_and\\_Environmental-friendly\)](https://wiki.keyestudio.com/KS0320_Keyestudio_Electromagnet_Module_(Black_and_Environmental-friendly))