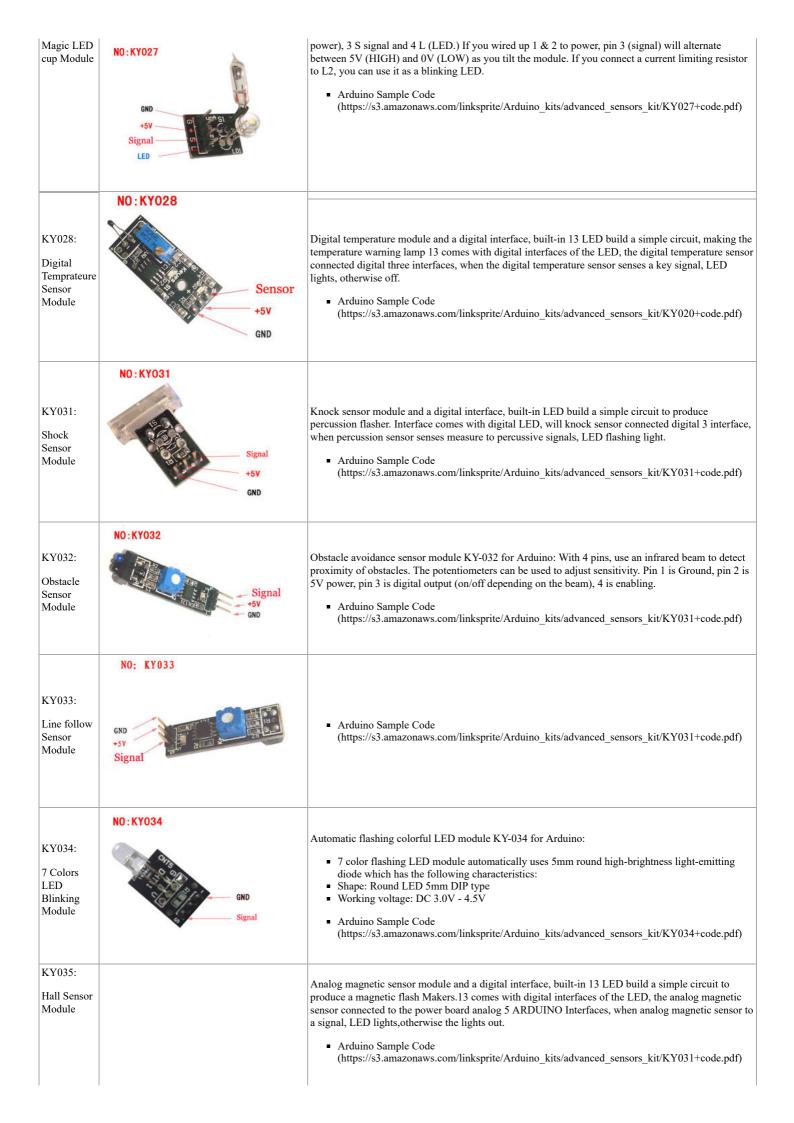
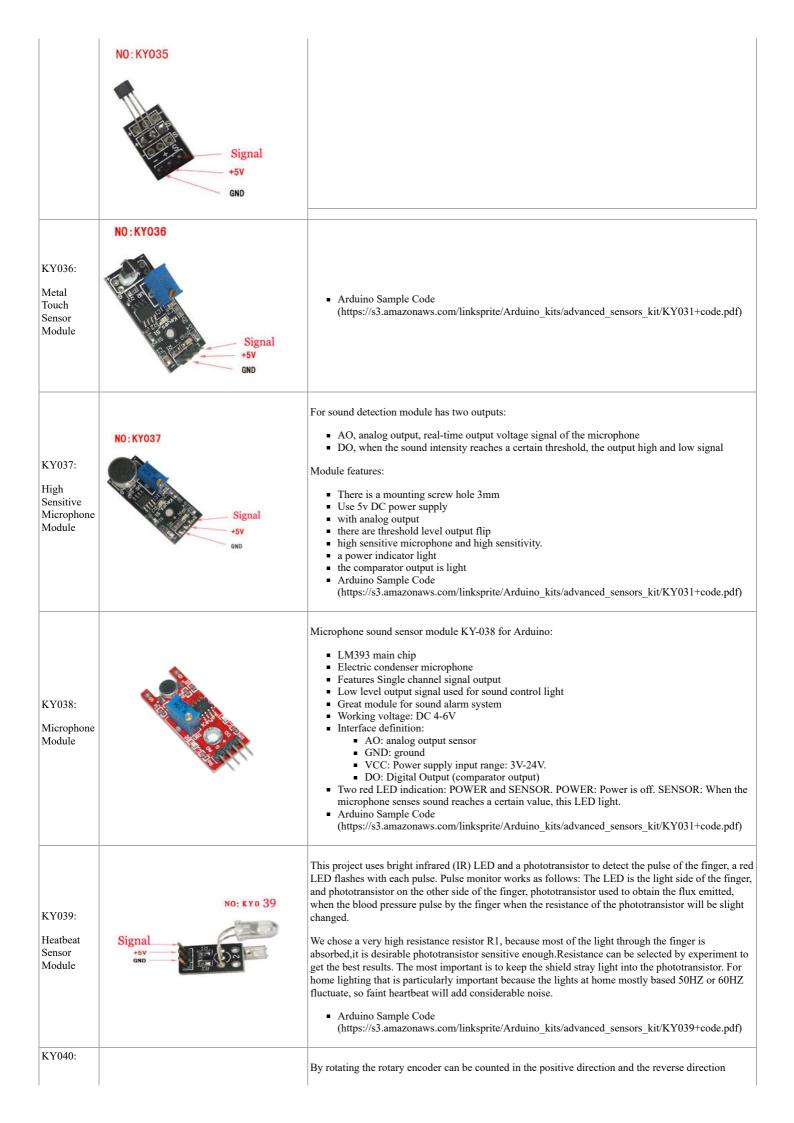
Item	Picture	Description
KY001: Temperature Sensor Module	Les es Signal	This module measures the temperature and reports it through the 1-wire bus digitally to the Arduino  DS18B20 (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/DS18B20.pdf)  Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY001+code.pdf)
KY002: Shock Sensor Module	GND +5V Signal	This module is digital shock sensor. It will output a high level signal when it detects a shock event.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY002+code.pdf)
KY003: Hall Magnetic Field Sensor Module	Signal +5V GND	This module can be used to detect the presence of an magnetic field. If there is an magnetic field present, it will report a high level signal.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY003+code.pdf)
KY004:  Momentary Button Module	GND +5V Signal	This is a button module. When the button is pressed, it will a high level signal.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY004+code.pdf)
KY005: Infrared Transmitter Module	GND +5V Signal	This is an infrared transmitter module that is used to emit infrared signal.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY005+code.pdf)
KY006: Buzzer Module		This is an active buzzer module that can make different sound.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY006+code.pdf)

	Ground +5V Signal	
KY008: Laser Diode Module	GND +5V signal	This is a laser emitter diode. The working voltage is 5V, with a wavelength of 650nm.  Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY008+code.pdf)
KY009: RGB three colors LEDs module	NO: KY009  GND  RED  GREEN BLUE	This is a surface mount three-color LED module that can make any color we want by combing different intensities of Red, Blue and Green.  Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY009+code.pdf)
KY010: Light Block Sensor Module	Signal +5V Ground	This is a light block sensor module, where there is an object in the middle of the U shape. The sensor will output a high level signal.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY010+code.pdf)
KY011: Dual Light LEDs module	NO: KY011  GND  GREEN  RED	This is a dual color LED module.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY011+code.pdf)
KY012: Buzzer Module	NO: KY012  Signal +5V GND	This is a nonactive buzzer module.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY012+code.pdf)
KY013:		This is an analog temperature sensor that outputs it voltage in proportional to the temperature.

Analog Temperature Sensor		■ Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY013+code.pdf)
KY015: Temprature and Humidity Sensor	NO: KYO15  GND +5V Signal	This DHT11 Temperature and Humidity Sensor features a calibrated digital signal output with the temperature and humidity sensor complex,ensureing the high reliability and excellent long-term stability. A high-performance 8-bit microcontroller is connected. This sensor includes a resistive element and a sense of wet NTC temperature measuring devices. It has excellent quality, fast response, anti-interference ability and high cost performance advantages.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY015+code.pdf)
KY016: RGB three colors LED module	NO: KY016  GND  RED  GREEN BLUE	This is a through the hole three-color LED module that can make any color we want by combing different intensities of Red, Blue and Green.  Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY016+code.pdf)
KY017: Quicksilver Switch Module	NO: KY017  GND +5V Signal	A tilt switch that can turn on and off depending on the tilt position. The switch is mercury.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY017+code.pdf)
KY018: Optosensor Module	NO: KY018  GND +5V Signal	Photoresistors are semiconductor photosensitive devices, in addition to having high sensitivity, fast response, consistent with the spectral characteristics and value of good features Under a high temperature, and humidity in harsh environments, it also can maintain a high degree of stability and reliability Wide pan used cameras, solar garden lights, lawn, detectors, clock, music, cups, gift boxes, mini-night light, light voice switches, lights automatically switch toys and a variety of light control, light control lighting, lamps and other light automatic opening control field  Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY018+code.pdf)
KY019: 5V DC Relay Module	NO: KY019  GND  Signal	This is 1 channel relay module with the following spec:  Can be used as microcontroller development board module can be used as home appliance control  S V-12V to TTL control signal  The control signal DC or AC, 220V AC load can be controlled.  There is a normally open and one normally closed contact  A power indicator light  A control indicator, pull off, disconnect does not shine  Aransistor drive to increase the relay coil control pins high impedance.  A control pin has a pull-down circuit to prevent malfunction relay vacant  Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY019+code.pdf)
KY020: Tilt Switch Module	NO: KYO2O  Signal +5V GND	Tilt switch module and a digital interface, built-in 13 LED build a simple circuit to produce tilt warning lamp 13 comes with digital interfaces of the LED, the tilt switch sensor interface to access digital 3,when the tilt open Off sensor senses a key signal, LED lights, otherwise off.  Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY020+code.pdf)
KY021:		Reed module and the interface comes with digital 13 LED build a simple circuit to produce a Reed warning lamp 13 comes with digital interfaces of the LED, the Reed sensor access number 3 interface, when Reed sensors Sensed a key signal, LED lights, otherwise off.

Mini Reed Switch Module	NO: KYO21	<ul> <li>Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY020+code.pdf)</li> </ul>
KY022: Infrared Receiver Module	NO: KYO22  GND +5V Signal	This is the infrared receiver module, with the following features:  The infrared receiver module is 1838 Infrared receiver Acceptance angle: 90 °, Operating voltage: 7-5.5V. Frequency: 37.9KHZ, Receiving distance: 18Meter. Using inside and outside the double-shielded package structure Anti-light, electromagnetic interference capability, built-in infrared dedicated IC Can in 500 LUX Light intensity to work properly. Widely used in: stereo, TV, VCR, disc players, set-top boxes, digital photo frame, car audio, remote control toys, satellite receiver, hard disk player, air conditioners, heaters, fans, lighting and other household appliances.  Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/InfraredReceiver.rar)
KY023: Mini Dual Axis JoyStick	NO: KYO23  Button Y  +5V GND	On the principle, the control rod can be considered that it is organized by the two potentiometer and a button. When using, it can connect with Arduino sensor shield, and connect Arduino corresponding pins through Arduino sensor cables. It as the following spec:  Directional movements are simply two potentiometers - one for each axis Compatible with Arduino interface The biaxial XY Joystick Module KY-023 applies ARDUINO Dimensions: 1.57 in x 1.02 in x 1.26 in (4.0 cm x 2.6 cm x 3.2 cm)  S Pin Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY023+code.pdf)
KY024: Linear magnetic Hall sensor	NO: KY024  Signal +5V GND	Linear Hall magnetic module and a digital interface, built-in 13 LED build a simple circuit to produce a magnetic field warning lamp 13 comes with digital interfaces of the LED, the linear Hall sensor magnetometer access number 3 interface, when linear Hall magnetometer Sensor senses a key signal, LED lights, otherwise off.  • Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY020+code.pdf)
KY025: Big Reed Switch Module	NO: KYO25  Signal +5V GND	Reed module and the interface comes with digital 13 LED build a simple circuit to produce a Reed warning lamp 13 comes with digital interfaces of the LED, the Reed sensor access number 3 interface, when Reed sensors Sensed a key signal, LED lights, otherwise off.  Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY020+code.pdf)
KY026: Flame Sensor Module	NO: KYO 26  Signal +5V GND	Sensor for flame wavelengths between 760 nm to 1100 nm infrared is most sensitive  # 60 degree detection sensor  # Two outputs mode:  # AO: analog output- real-time output voltage signal on the thermal resistance  # DO: when the temperature reaches a certain threshold- the output high and low signal threshold adjustable via potentiometer  # Working voltage: DC 3V - 5.5V  # Arduino Sample Code  (https://s3.amazonaws.com/linksprite/Arduino_kits/advanced_sensors_kit/KY020+code.pdf)
KY027:		This module has two parts - an LED and a mercury tilt switch. Pins are 1 G (ground), 2 + (5V





Rotation Encoder Module



during rotation of the output pulse frequency, unlike rotary potentiometer counter, which species rotation counts are not limited. With the buttons on the rotary encoder can be reset to its initial state, that starts counting from 0.

How it works: incremental encoder is a displacement of the rotary pulse signal is converted to a series of digital rotary sensors. These pulses are used to control angular displacement. In Eltra angular displacement encoder conversion using a photoelectric scanning principle. Reading system of alternating light transmitting window and the window is not consisting of radial indexing plate (code wheel) rotating basis, while being an infrared light source vertical irradiation light to the code disk image onto the receiving on the surface. Receiver is covered with a diffraction grating, which has the same code disk window width. The receiver's job is to feel the rotation of the disc resulting changes, and change the light into corresponding electrical changes. Then the low-level signals up to a higher level, and generates no interference square pulse, which must be processed by electronic circuits. Reading systems typically employ a differential manner, about the same but the phase difference of the two waveforms different by 180° compared to the signal in order to improve the quality and stability of the output signal. Reading is then the difference between the two signals formed on the basis, thus eliminating the interference.

 Arduino Sample Code (https://s3.amazonaws.com/linksprite/Arduino\_kits/advanced\_sensors\_kit/KY040+code.pdf)

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