



TinkerKit!

TinkerKit Sensor Shield V.2



Overview

The **Sensor Shield v.2** allows you to hook up the TinkerKit **SENSORS** and **ACTUATORS** directly to the Arduino, without the use of the breadboard.

It has 12 standard TinkeKit 3pin connectors. The 6 labeled **I0** through **I5** are **Analog Inputs**. The ones labeled **O0** through **O5** are **Analog Outputs** connected to the PWM capable outputs of the Arduino Board (it is possible to change these to Digital Inputs, in which case they will report either HIGH or LOW, but nothing in between).

On a Standard Arduino DuemilaNove board the pins are:

- Pin 11 on the Arduino is O0 on the shield.
- Pin 10 on the Arduino is O1 on the shield.
- Pin 9 on the Arduino is O2 on the shield.
- Pin 6 on the Arduino is O3 on the shield.
- Pin 5 on the Arduino is O4 on the shield.
- Pin 3 on the Arduino is O5 on the shield.

Module description: A green LED signals that the shield is correctly powered, a standard 6mm pushbutton allows you to RESET the board.

The **4pin TWI socket** allows communication to any device supporting the I2C protocol through the Wire library on Arduino. 5V and Ground are provided on the socket. Note that on Arduino the I2C bus uses Analog Input 4 and 5, using the TWI connection precludes the use of those analog inputs.

The **4pin SERIAL socket** allows the board to communicate with other devices that support serial communication. 5V and Ground are provided on the socket for your convenience.

Note: If you're sending or receiving data to and from the computer this serial connector is not available.

Two mounting holes are provided in the same position found on the Arduino board. A third hole allows you to see the led connected to pin 13 of the Arduino.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [arduino manufacturer](#):

Other Similar products are found below :

[TINKERKIT ROTARY POTENTIOMETER](#) [ARDUINO STARTER KIT - KOREAN K090007](#) [ARDUINO PRO GATEWAY LORAÂ®](#)
[CONNECTIVITY](#) [ARDUINO NANO 3.0](#) [ARDUINO ESPLORA RETAIL](#) [TINKERKIT - PRO X000003](#) [ARDUINO ENGINEERING KIT](#)
[AKX00015](#) [A000083](#) [ASX00004](#) [AKX00002SL](#) [T010111](#) [ARDUINO STARTER KIT - CHINESE](#) [TINKERKIT BRACCIO \(US.EU.UK.AU](#)
[PLUG\)](#) [MKR PROTOSHIELD L K000007-6P](#) [T000190](#) [ARDUINO STARTER KIT FRENCH](#) [ARDUINO STARTER KIT SPANISH](#)
[X000005](#) [MKR RELAY PROTO SHIELD](#) [ARDUINO MKR ENVIRONMENTAL SHIELD](#) [T010118](#) [ARDUINO MICRO WITH HEADERS](#)
[ARDUINO MKR RGB](#) [T010116](#) [ARDUINO ESPLORA](#) [TINKERKIT BLUE LED \[5MM\]](#) [ARDUINO NANO 33 BLE SENSE WITH](#)
[HEADERS](#) [MKR GSM 1400 WITHOUT ANTENNA](#) [MKR IOT BUNDLE B000003](#) [ARDUINO MKR VIDOR 4000](#) [MKR MOTOR](#)
[CARRIER](#) [BOX FOR ARDUINO YUN](#) [ANTENNA GSM K120007](#) [83-14719](#) [ARDUINO MKR THERM SHIELD](#) [ARDUINO STARTER](#)
[KIT K010007](#) [ARDUINO MKR WIFI 1010](#) [ARDUINO MKR 485 SHIELD](#) [ARDUINO LEONARDO W/O HEADERS](#) [TINKERKIT](#)
[THERMISTOR MODULE](#) [TINKERKIT HALL SENSOR](#) [ARDUINO MOTOR SHIELD REV3](#) [ARDUINO LEONARDO WITH HEADERS](#)