

GeekServo 2KG Motors

2KG Motors (HKBD8009A)



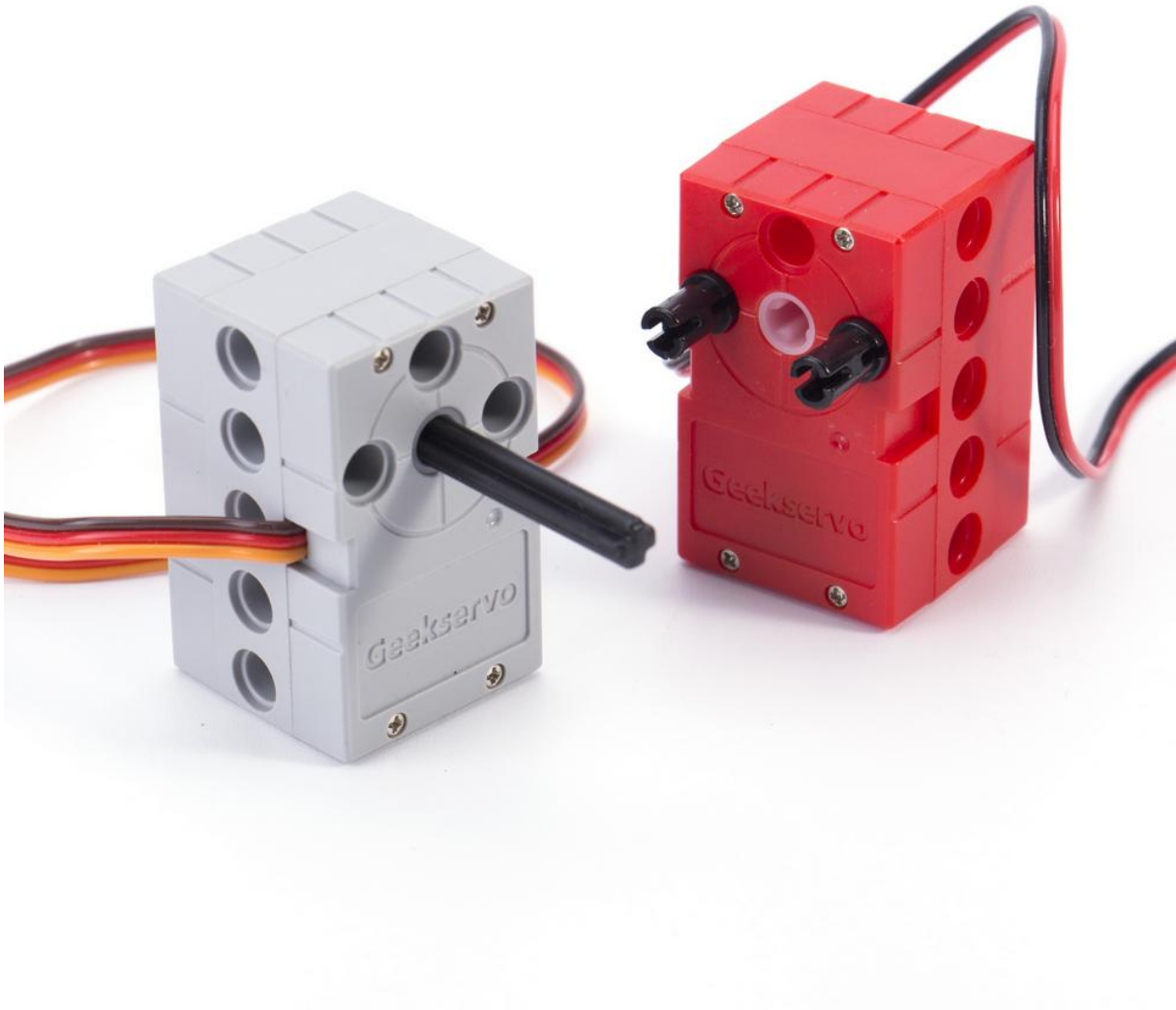
This is a motor compatible with Lego technic parts, compared to 9g motors, it has a higher speed. The output axle is a Lego technic axle connector. It is suitable for applications where a high power driver is required.

Specifications

- Operating Voltage: 3.3V~6V
- Rated Voltage: 4.8V
- Rated Current: 70mA
- Blocked Motor Current: 900mA
- Slipping Current: 700mA
- Maximum Torque: 1.6kg±0.2kg/cm(4.8V)
- Maximum Speed: 45rpm(3V)
- Weight: 20g

- Connector: Red and Black Motor Connector

Special Features



Inherits the special features of the 9g motor while improving torque and speed at the same time.

- Uses an axle connector for output
 - Allows connecting axles of different lengths to better suit your needs
- Dual Outputs
 - Output axles are found on both sides
- Larger rotational range
 - Has a full 360° range
- Higher Torque

- About 3 times the torque of a 9g motor

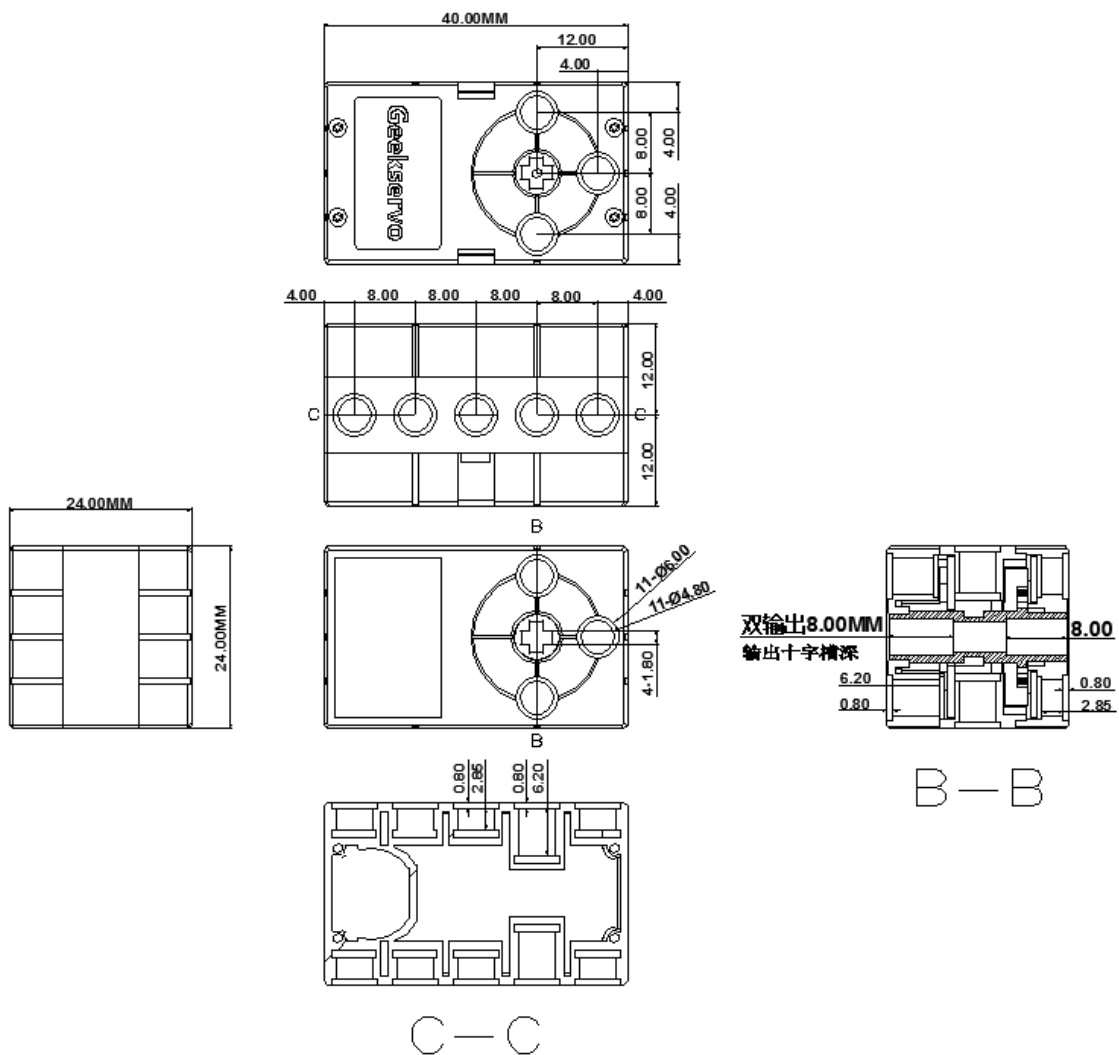
Dimensions

In Lego units:

- Length: 5
- Width: 3
- Height: 3
- Output Axle: Technic Axle

In mm units:

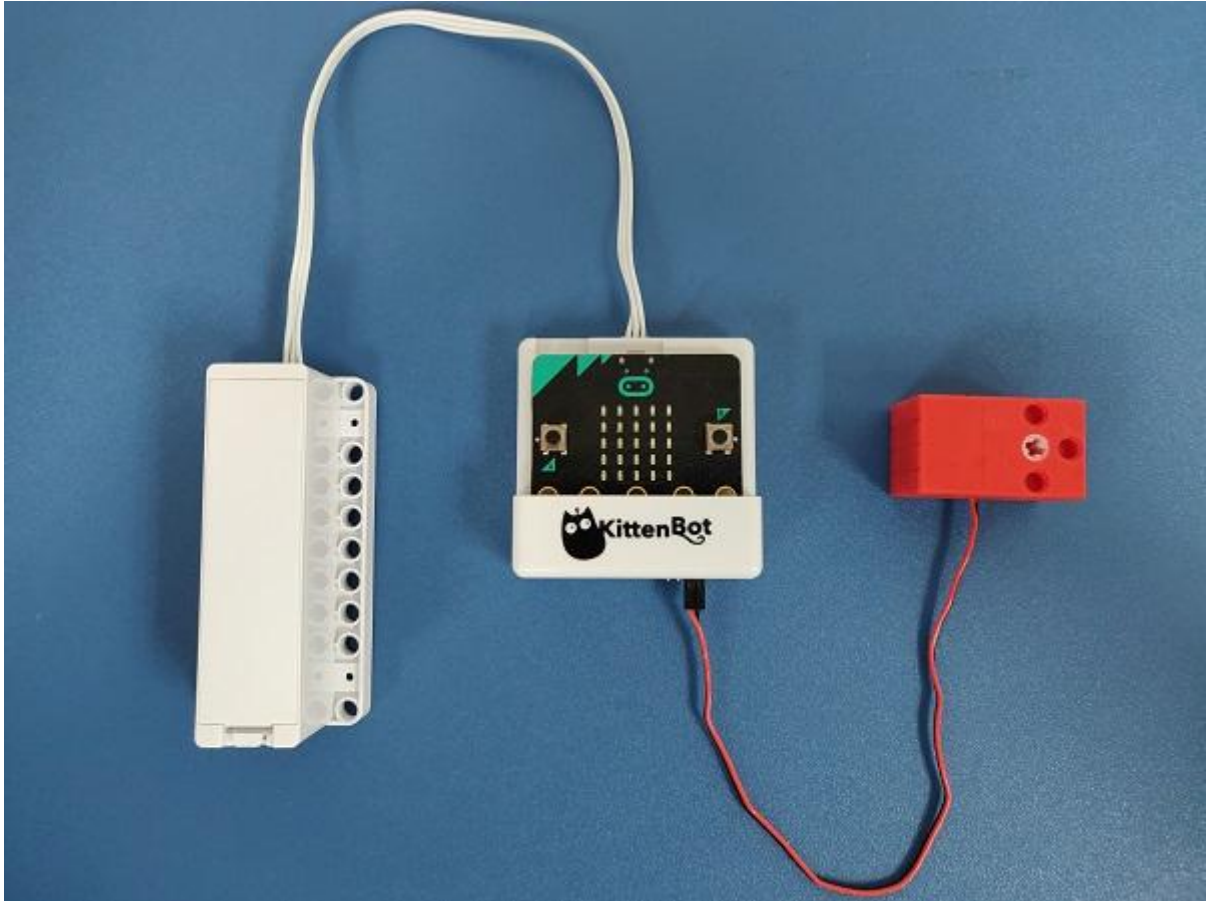
- Length: 40mm
- Width: 24mm
- Height: 24mm
- Output Axle: Technic Axle



Connection

Armourbit

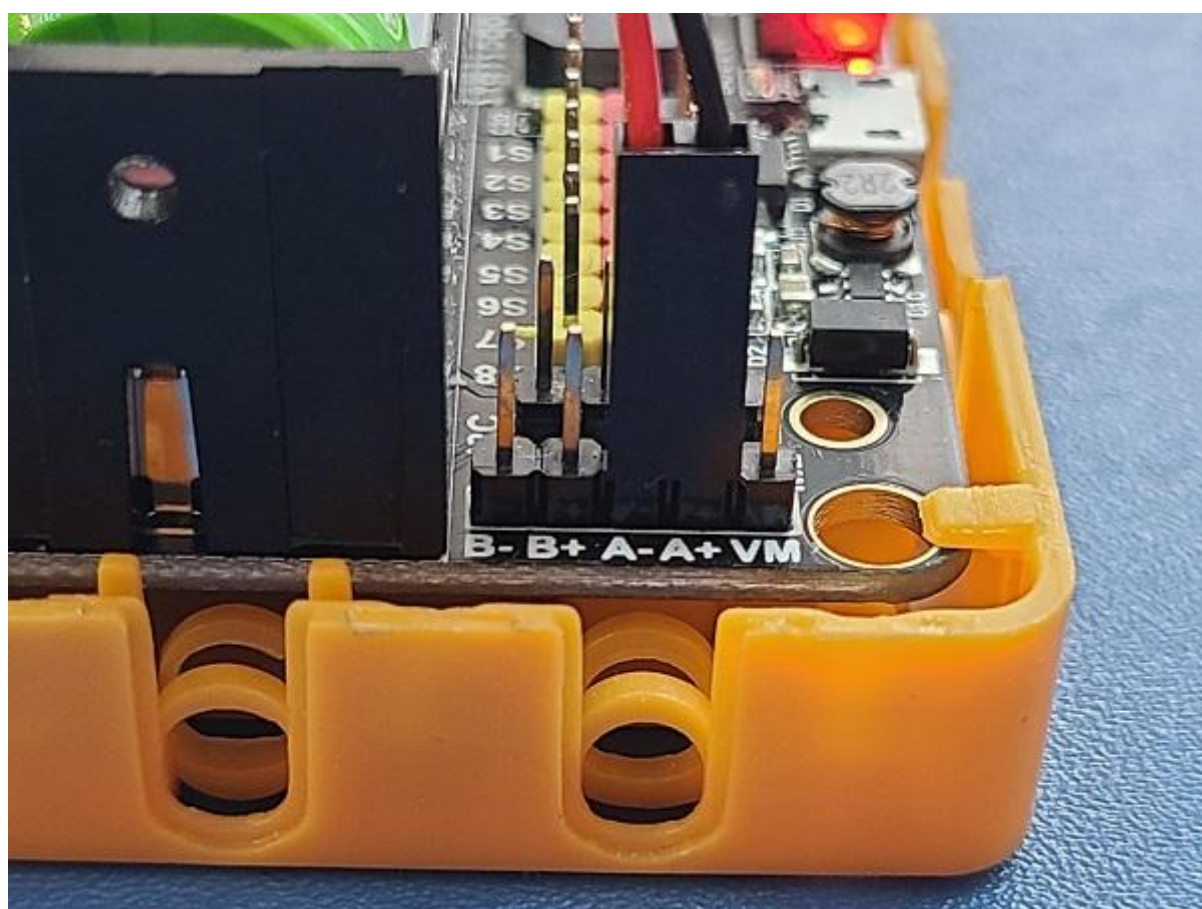
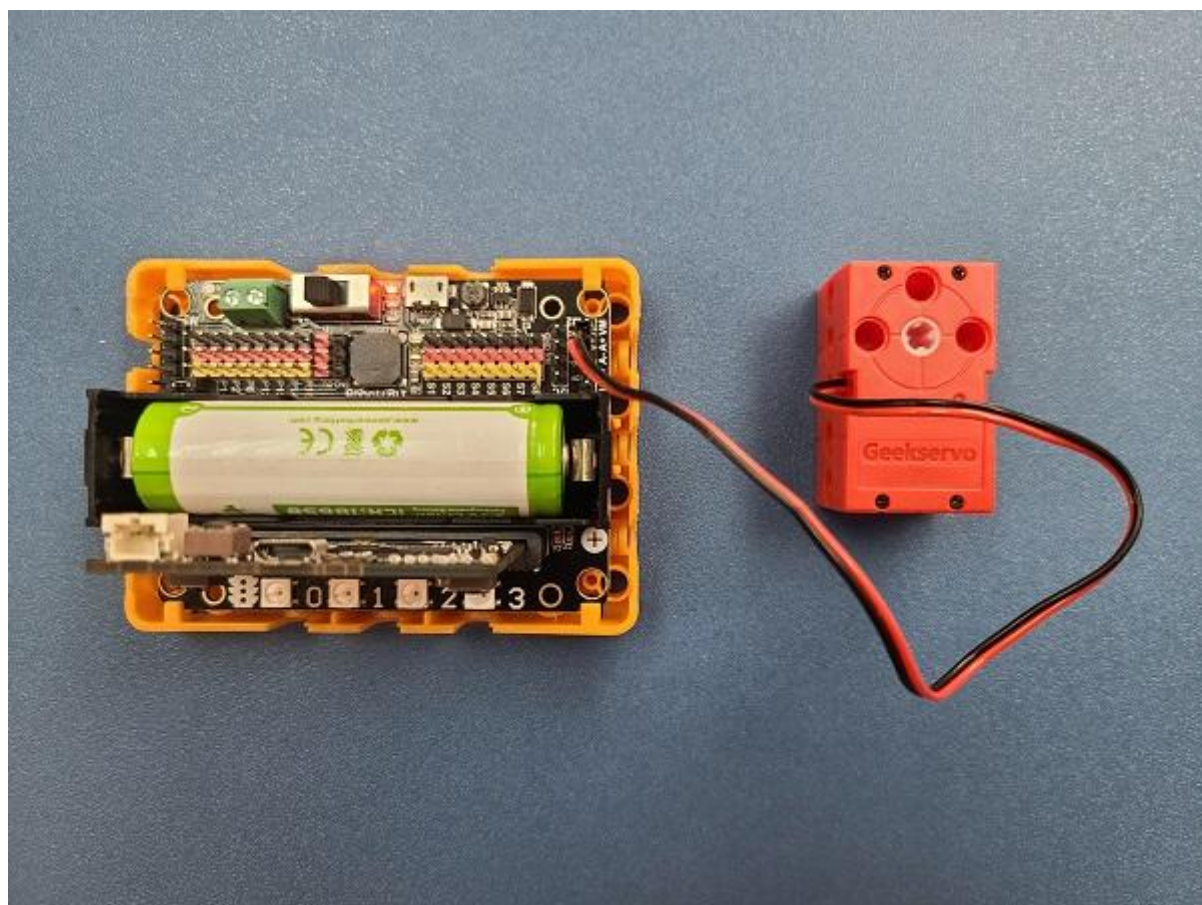
Connect the motor to the motor ports on the Armourbit.



Reversing the connection would **not** damage the motor, but the rotational direction will be reversed.

Robotbit

Connect the motor to the motor ports on the Robotbit.



Reversing the connection would **not** damage the motor, but the rotational direction will be reversed.

MakeCode Coding Tutorial [↗](#)



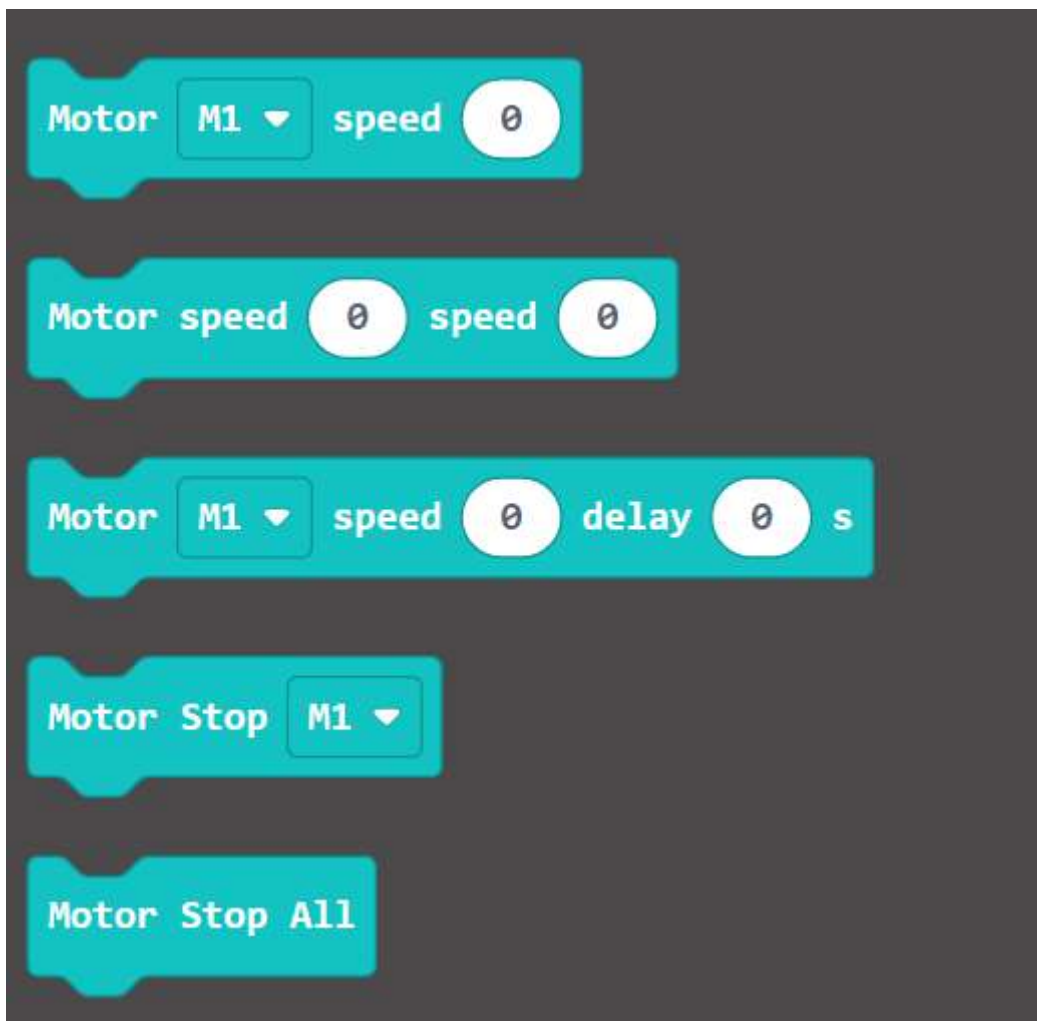
This module can be used by Micro:bit and Meowbit. [↗](#)

ArmourBit [↗](#)

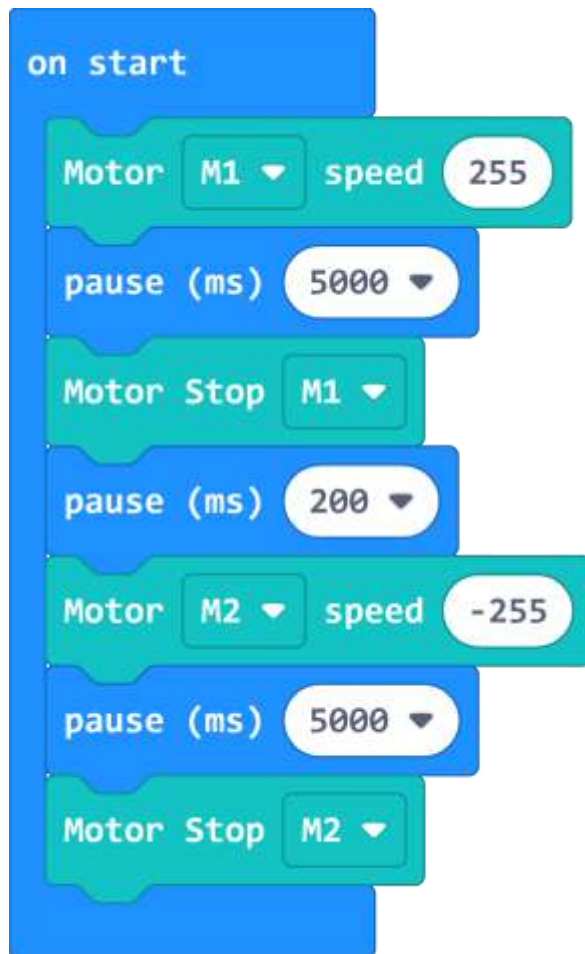
Load Powerbrick Extension: <https://github.com/KittenBot/pxt-powerbrick> [↗](#)

[Loading Extensions](#) [↗](#)

Blocks for controlling motors: [↗](#)

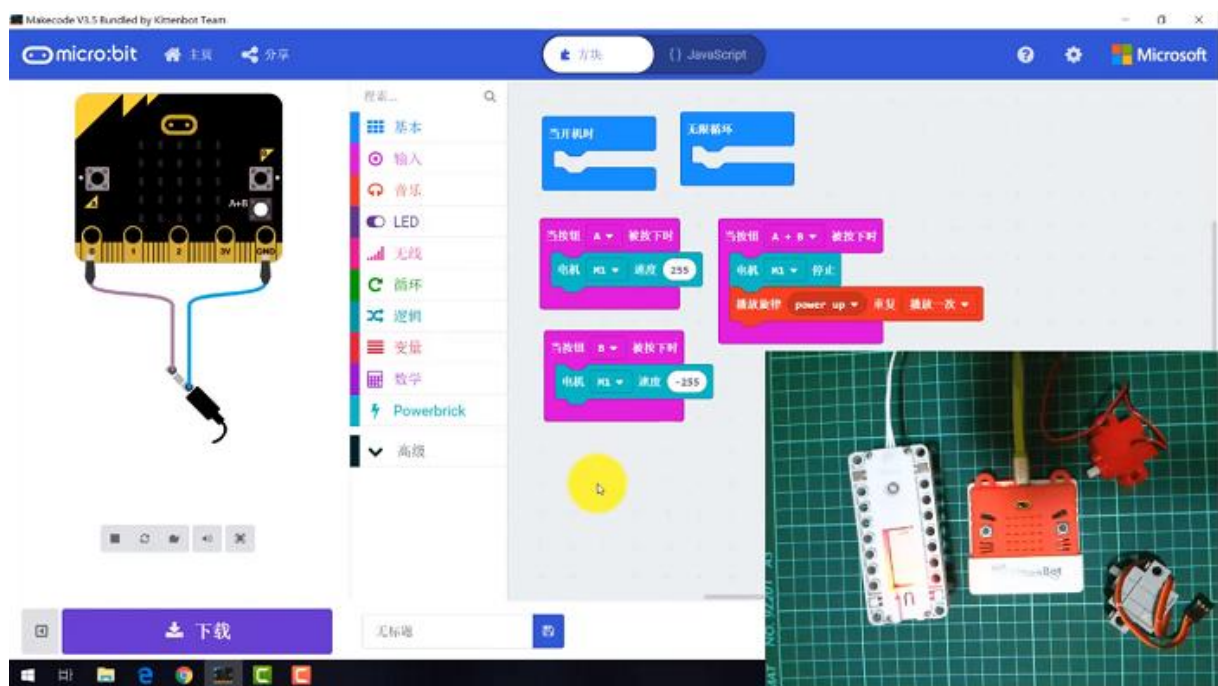


Programming the motors [↗](#)



[Sample Code Link](#)

Makecode Coding Tutorial Video [📺](#)



RobotBit [↗](#)

Load Robotbit Extension: [↗](#)

Extensions



robotbit
Extension for Kittenbot Robotbit

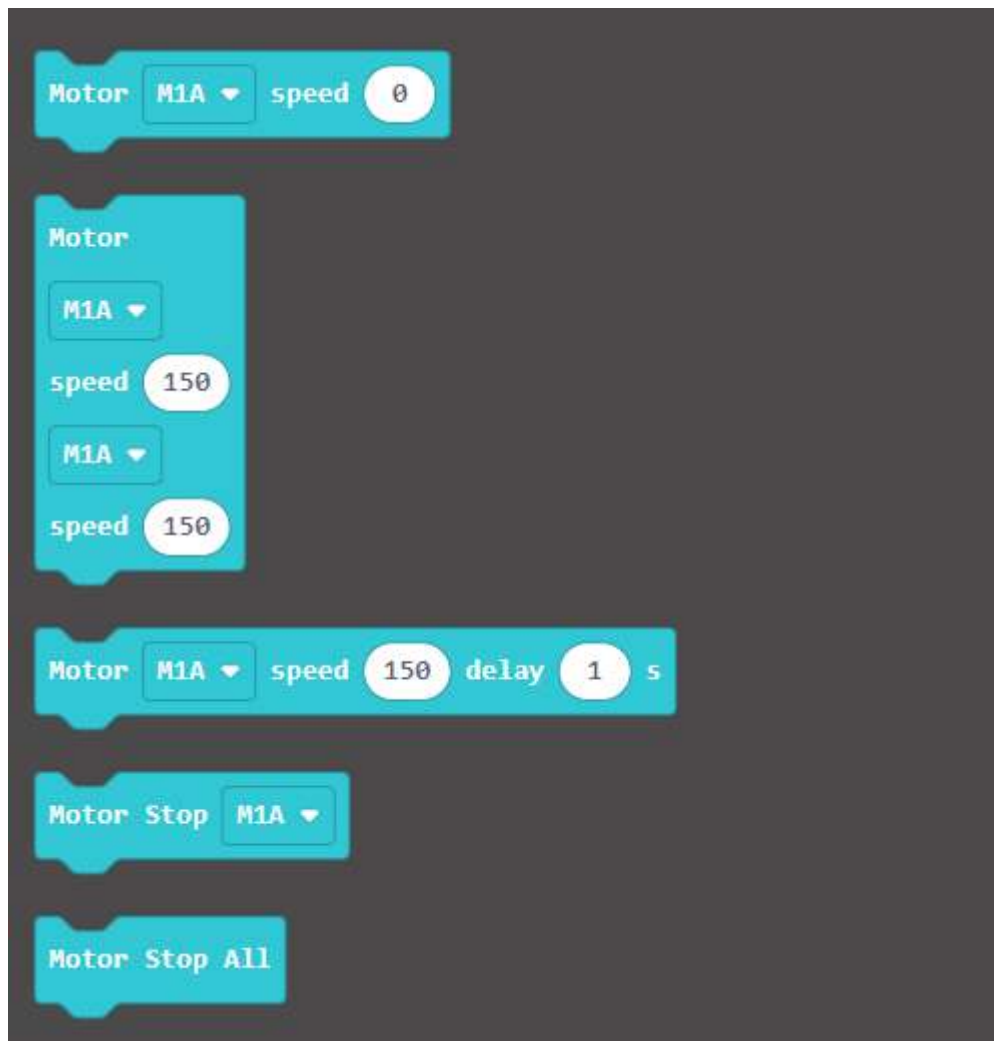
Learn more



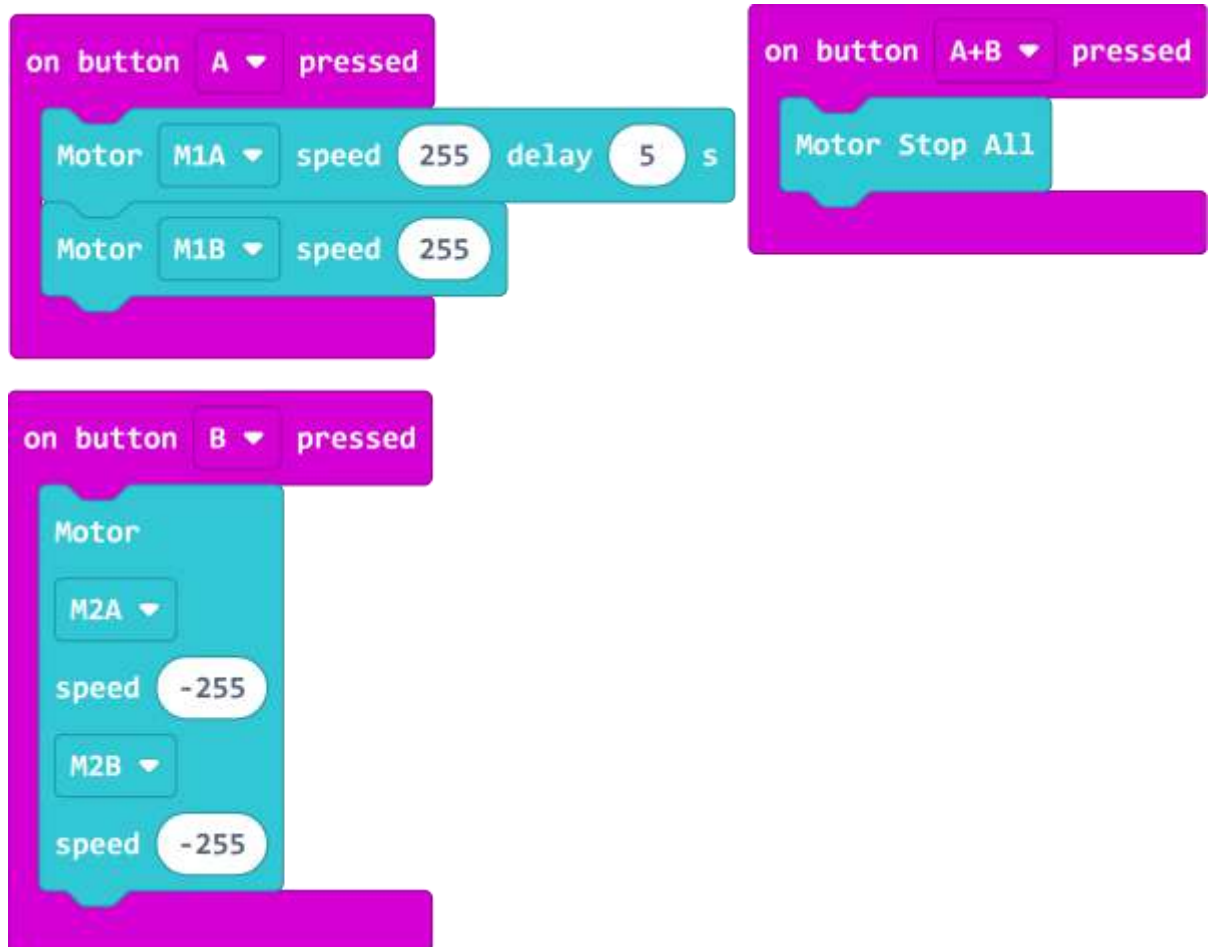
sonar
A MakeCode sensors

Loading Extensions [↗](#)

Blocks for controlling motors: [↗](#)



Programming the motors [↗](#)



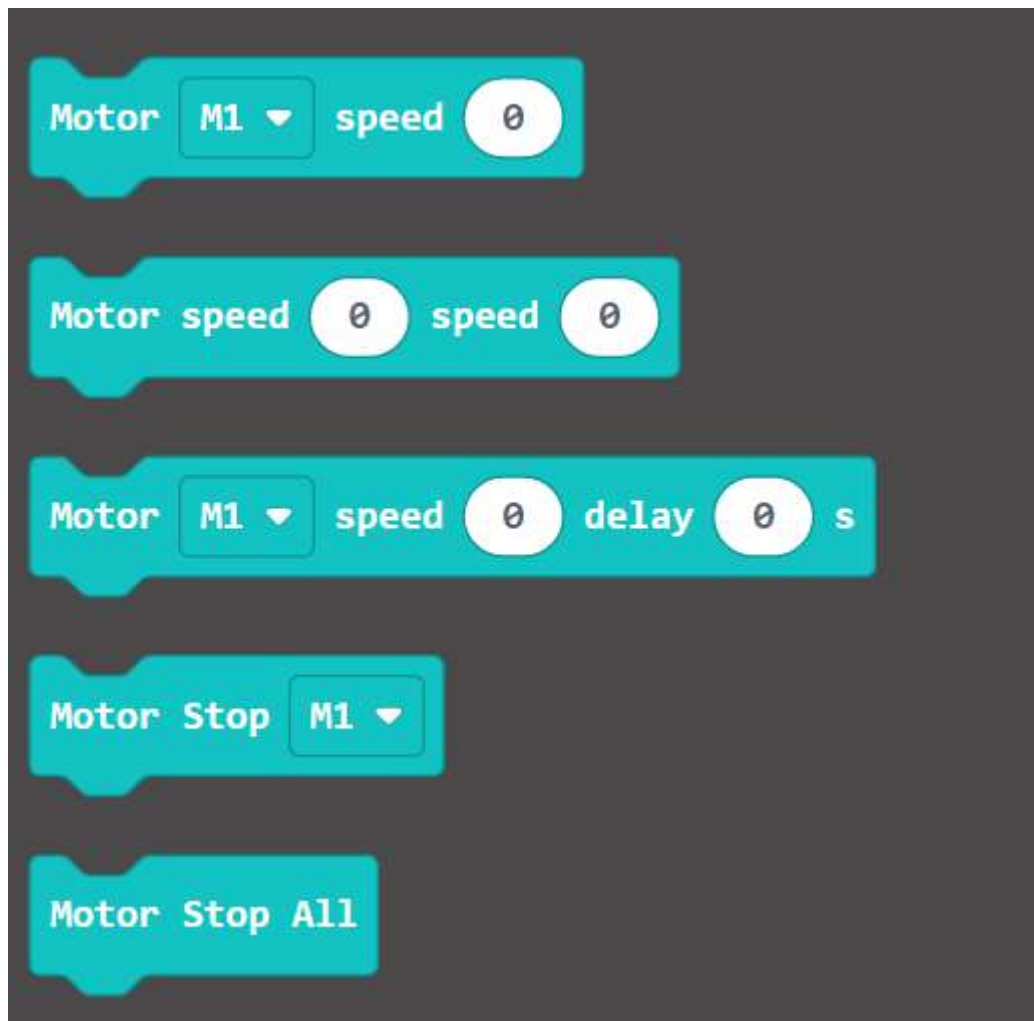
[Sample Code Link](#)

Meowbit: [🔗](#)

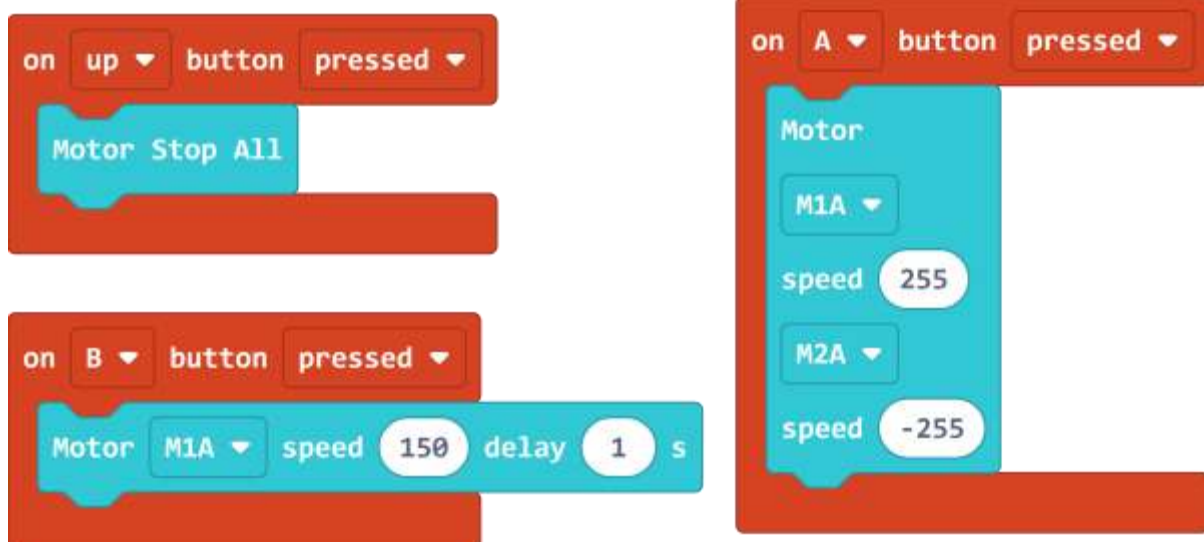
Load Robotbit Extension: <https://github.com/KittenBot/meow-robotbit> [🔗](#)

Loading Extensions [🔗](#)

Blocks for controlling motors: [🔗](#)



Programming the motors:[↗](#)



[Sample Code Link](#)

Extension Version and Updates[↗](#)

There may be updates to extensions periodically, please refer to the following link to update/downgrade your extension.

[Makecode Extension Update](#)

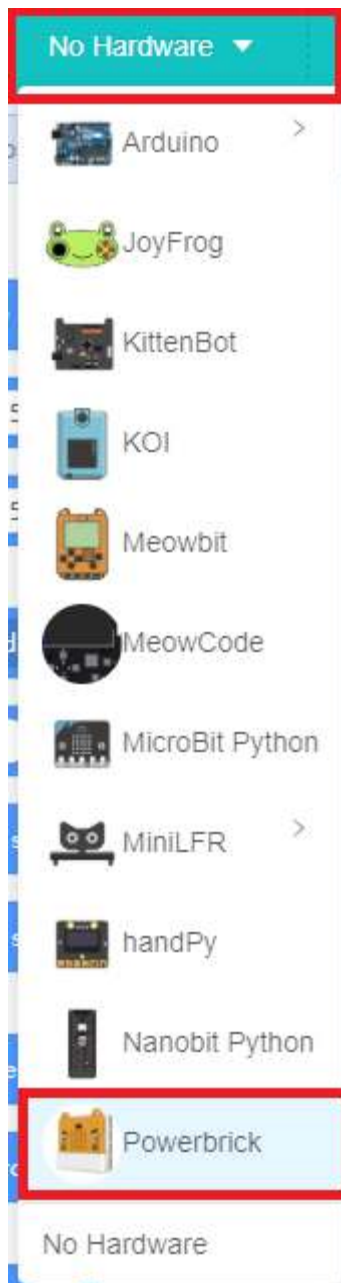
KittenBlock Coding Tutorial 



Armourbit 

Load Powerbrick Extension 

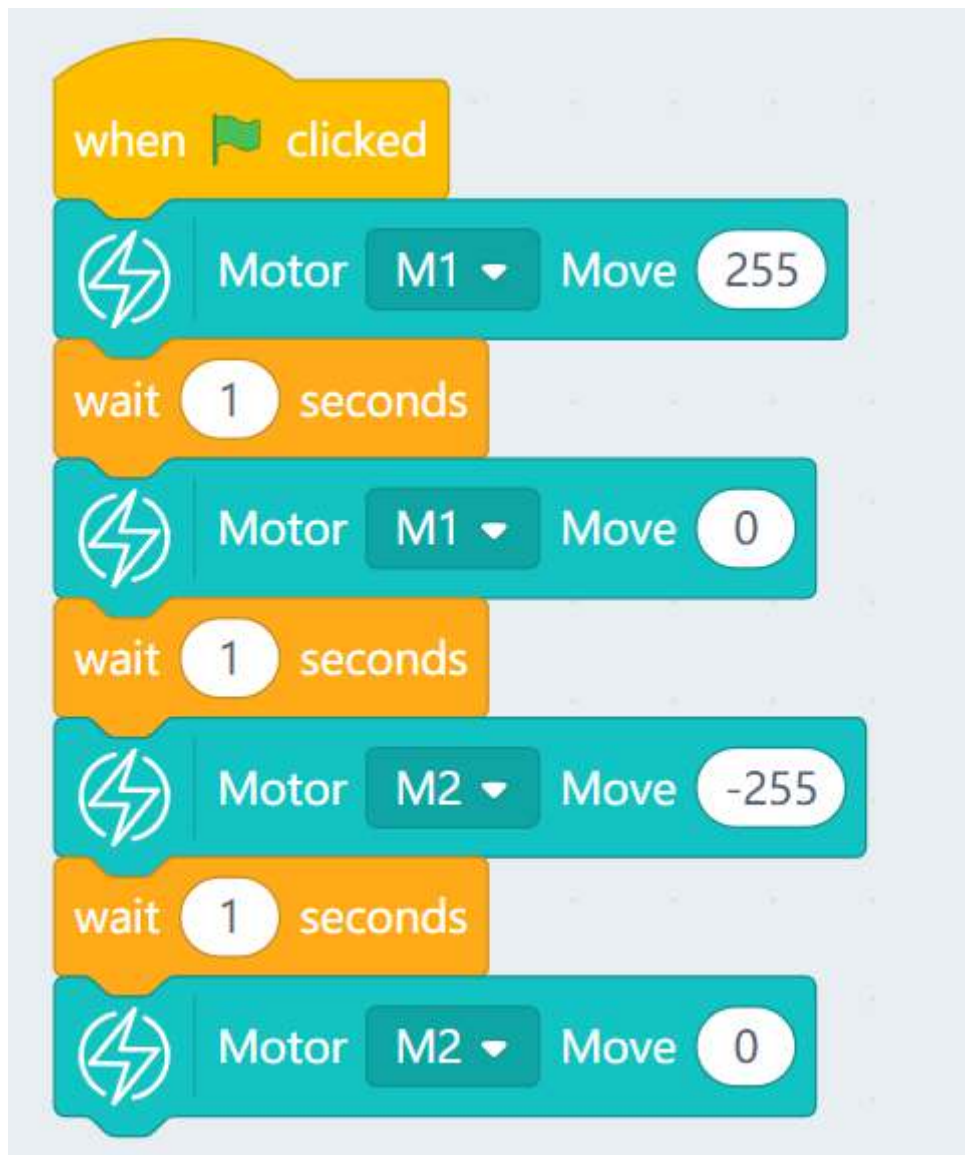
Open the hardware menu and select Powerbrick to load the extension for Micro:bit and Powerbrick.



Blocks for controlling motors:



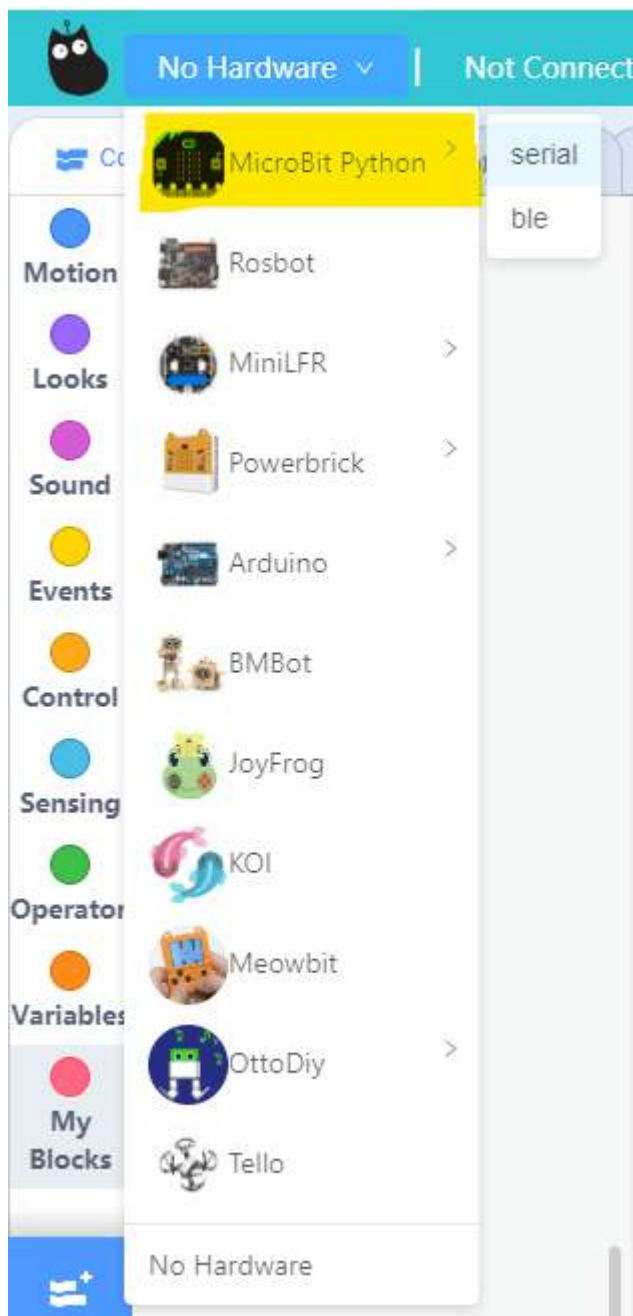
Programming the motors



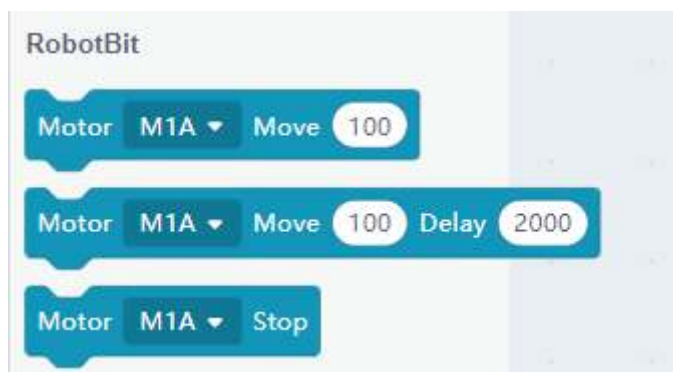
Robotbit [↗](#)

Load Robotbit Extension [↗](#)

Open the hardware menu and select Micro:bit to load the extension for Micro:bit and Robotbit.



Blocks for controlling motors: [↗](#)



Programming the motors [↗](#)

