EV3 Motors

Non-Visible component

Category	Requires	Version
LEGO® MINDSTORMS® > EV3	API 19, Android 4.4 - 4.4.4 KitKat	0

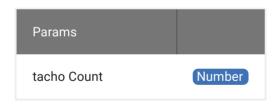
Overview

A component that provides both high- and low-level interfaces to a LEGO MINDSTORMS EV3 robot, with functions that can control the motors.

Events

Tacho Count Changed

Called when the tacho count has changed.



Methods

Get Tacho Count

Returns: Number

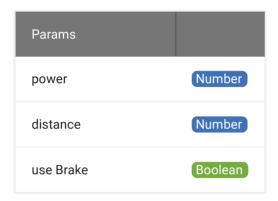
Get the current tacho count.

Reset Tacho Count

Set the current tacho count to zero.

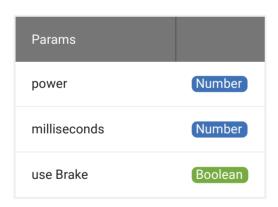
Rotate In Distance

Rotate the motors in a distance.



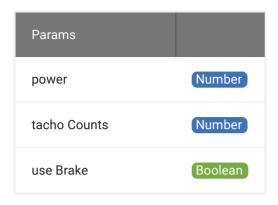
Rotate In Duration

Rotate the motors in a period of time.



Rotate In Tacho Counts

Rotate the motors in a number of tacho counts.



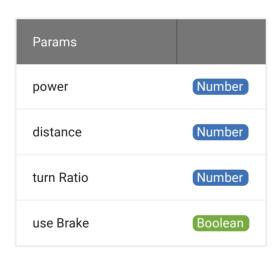
Rotate Indefinitely

Start to rotate the motors.



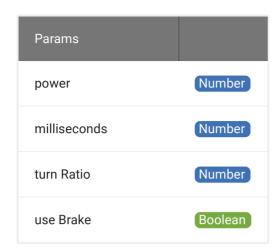
Rotate Sync In Distance

Rotate the motors at the same speed for a distance in cm.



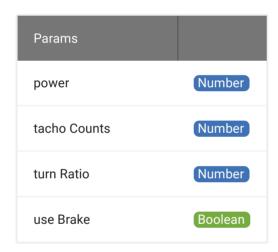
Rotate Sync In Duration

Rotate the motors at the same speed in a period of time.



Rotate Sync In Tacho Counts

Rotate the motors at the same speed in a number of tacho counts.



Rotate Sync Indefinitely

Start to rotate the motors at the same speed.



Stop

Stop the motors of the robot.



Toggle Direction

Toggle the direction of motors.

Properties

Bluetooth Client

```
Component — Read Write - Designer Blocks
```

The BluetoothClient component that should be used for communication.

Enable Speed Regulation

```
Boolean Default: True — Read Write - Designer Blocks
```

Specifies whether to keep motor rotation at constant speed.

Motor Ports

```
Text Default: ABC — Write - Designer
```

The motor ports that the motors are connected to. The ports are specified by a sequence of port letters.

Reverse Direction



Set whether the direction of motors is reversed or not.

Stop Before Disconnect

Whether to stop the motor before disconnecting.

Tacho Count Changed Event Enabled

Whether the TachoCountChanged event should fire when the angle is changed.

Wheel Diameter

```
Number Default: 4.32 — Write - Designer
```

Specifies the diameter of the wheels attached on motors.

Last update: January 26, 2020