

SDP EV3 Basic Motor and Sensor Scripts

EV3 and NXT Large Motors

```
import ev3dev.ev3 as ev3
m=ev3.LargeMotor ( ' outA ' )
m.run_timed ( speed_sp =300, time_sp =1000)
```

EV3 Medium Motors

```
import ev3dev.ev3 as ev3
m=ev3.MediumMotor ( ' outA ' )
m.run_timed ( speed_sp =300, time_sp =1000)
```

RCX and Powerfunctions Motors

ON the EV3 brick Select - *Device Browser - Ports - ev3-ports:outA - Set mode - dc-motor*

```
import ev3dev2.motor as ev3
m=ev3.DcMotor('outA')
m.run_timed(time_sp=3000, duty_cycle_sp=100)
```

EV3 and NXT Touch Sensors

```
import ev3dev.ev3 as ev3
ts = ev3.TouchSensor()
ts.connected
print(ts.value())
```

EV3 Ultrasonic Sensor

```
import ev3dev.ev3 as ev3
us=ev3.UltrasonicSensor ( ' in1 ' )
us.mode = 'US-DIST-CM'
print(us.value (), "mm")
```

EV3 Gyro Sensor

```
import ev3dev.ev3 as ev3
gy = ev3.GyroSensor('in1')
print(gy.value ())
```

EV3 Color Sensor

```
Import ev3dev.ev3 as ev3
cs=ev3.ColorSensor ('in1')
cs.mode = 'COL-COLOR'
print(cs.value())
```

NXT Ultrasonic Sensor

```
import ev3dev.ev3 as ev3
us=ev3.UltrasonicSensor ( ' in1 ' )
us.mode = 'US-DIST-CM'
print(us.value (), "cm")
```

EV3 Infrared Sensor

```
import ev3dev.ev3 as ev3
ir = ev3.InfraredSensor('in1')
ir.mode = 'IR-PROX'
print(ir.value())
```

NXT Light Sensor

```
import ev3dev.ev3 as ev3
l = ev3.LightSensor('in1')
l.mode = 'AMBIENT'
print(l.value())
```

NXT Sound Sensor

ON the EV3 brick Select - *Device Browser - Ports - ev3-ports:in1 - Set device - lego-nxt-sound*
And Select - *Device Browser - Ports - ev3-ports:in1 - Set mode - nxt-analog*

```
import ev3dev.ev3 as ev3
s = ev3.SoundSensor('in1')
print(s.value())
```

For more detailed information on sensor modes and motor control functions as well as other types of supported sensors and motors see the link below:-

<http://docs.ev3dev.org/projects/lego-linux-drivers/en/ev3dev-jessie/sensors.html>