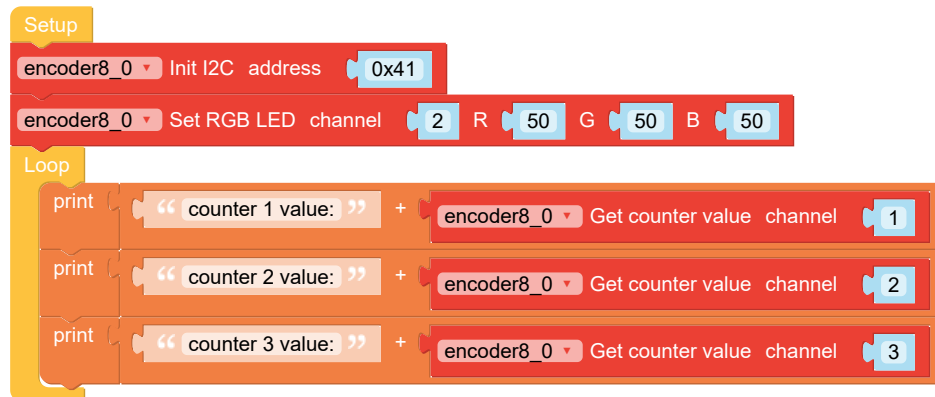


Unit 8Encoder

Example

Edit program, open 1/2/3 rotary encoder, and listen to encoder statistics



```
from m5stack import *
from m5ui import *
from uiflow import *
import unit

setScreenColor(0x222222)
encoder8_0 = unit.get(unit.ENCODER8, unit.PORTA)

encoder8_0.init_i2c_address(0x41)
encoder8_0.set_LED_RGB24(2, 50, 50, 50)
while True:
    print((str('counter 1 value:') + str((encoder8_0.get_counter_value(1)))))
    print((str('counter 2 value:') + str((encoder8_0.get_counter_value(2)))))
    print((str('counter 3 value:') + str((encoder8_0.get_counter_value(3)))))
    wait_ms(2)
```

API



```
encoder8_0.init_i2c_address(0x41)
```

- Initialize the Encoder8 unit using the specified I2C interface and address

encoder8_0 ▾ Get button status channel 0

```
print((str('button status:') + str((encoder8_0.get_button_status(0)))))
```

- Get the button status of the specified channel

encoder8_0 ▾ Get counter value channel 0

```
print((str('counter value:') + str((encoder8_0.get_counter_value(0)))))
```

- Get the counter value of the specified channel

encoder8_0 ▾ Get device status FW_VERSION ▾

```
print((str('device status:') + str((encoder8_0.read_status(0xFE)))))
```

- Get the device status and version

encoder8_0 ▾ Get increment value channel 0

```
print((str('increment value:') + str((encoder8_0.get_increment_value(0)))))
```

- Get the increment value of the specified channel

encoder8_0 ▾ Get switch status

```
print((str('switch status:') + str((encoder8_0.get_switch_status()))))
```

- Get the status of the global switch

encoder8_0 ▾ Reset counter value channel 0

```
encoder8_0.reset_counter_value(0)
```

- Reset the counter value of the specified channel

encoder8_0 ▾ Set counter value 1000 channel 0

```
encoder8_0.reset_counter_value(0)
```

- Set the counter value of the specified channel

encoder8_0 ▾ Set device I2C address 0x41

```
encoder8_0.set_i2c_address(0x41)
```

- Set a new I2C address for the device

encoder8_0 ▾ Set RGB LED channel 0 R 50 G 50 B 50

```
encoder8_0.set_LED_RGB24(0, 50, 50, 50)
```

- Set the RGB color of the specified channel

encoder8_0 ▾ Set RGB LED channel from 0 to 0 R 50 G 50 B 50

```
encoder8_0.set_LED_RGB24_From(0, 0, 50, 50, 50)
```

- Set the RGB color for a series of channels