

# Sensor

# Morpho

Motor (L) SLP  
DIR  
PWM

C5

B7

B6

Motor (R) SLP  
DIR  
PWM

C2

C6

C7

Encoder (L) ELA  
ELB

A0

A1

Encoder (R) ERA  
ERB

B4

B5

IMU (BNO055) Vin  
3V0  
GND  
SDA  
SCL  
RST

3V3 (Shoe of Brian)

N/A

GND

B9

B8

N/A

IR (Front) Vcc  
GND  
OUT

3V3 (Shoe of Brian)

GND

A6

IR (Left) Vcc  
GND  
OUT

3V3 (Shoe of Brian)

GND

A7

# Sensor

# Morpho

8-Array  
 GND  
 V<sub>CC</sub>  
 CTRL (coll)  
 1  
 3  
 5  
 7  
 9  
 11  
 13  
 15

GND  
 5V  
 PCB  
 C0  
 B0  
 N/A  
 C4  
 B1  
 N/A  
 C3  
 C1

Single Array  
 (L)  
 GND  
 V<sub>CC</sub>  
 CTRL  
 1

GND  
 5V (Shoe of Brian)  
 N/A  
 A4

Single Array  
 (R)  
 GND  
 V<sub>CC</sub>  
 CTRL  
 1

GND  
 5V (Shoe of Brian)  
 N/A  
 A5