Pololu A4988 or StepStick   Steppers   Servos

Arduino

RESET
GND

A1
UNO

VIN
5V
3V3
IOREF
GND
GND
GND
AREF
AIN0
AIN1
AIN2
AIN3
AIN4/SDA
AIN5/SCL

RESET
RX/0
TX/1
2
PWM/3
4
PWM/5
PWM/6
7
8
PWM/9
PWM/SS/10
PWM/MOSI/11
MISO/12
SCK/13
AIN4/SDA
AIN5/SCL

A_EN
A_STEP
A_DIR
B_EN
B_STEP
B_DIR
C_EN
C_STEP
C_DIR

LED
LASER
MS

VMOT
5V
VMOT
J1
1 2

GND

S1
1 GND
2 5V
3 A_STEP

S2
1 GND
2 5V
3 B_STEP

S3
1 GND
2 5V
3 C_STEP

M1 VMOT
1
2 GND
3
4 5V
GND

M2 VMOT
1
2 GND
3
4 5V
GND

M3 VMOT
1
2 GND
3
4 5V
GND

D1B
C1 2uF   GND

D2B
C2 2uF   GND

D3B
C3 2uF   GND

D1A
R1 1k
D1 GND
A_EN
A_STEP A_DIR

D2A
R2 1k
D2 GND
B_EN
B_STEP B_DIR

D3A
R3 1k
D3 GND
C_EN
C_STEP C_DIR

MS

R6
R4 47k
R5 4k7
4k7
LED
GND
IRLML2502 T2
T1 BC547 GND

1N4148
D4 D5
LASER

VMOT

LED-1 5V
LED-2

LASER-1 GND
LASER-2

VMOT-1 GND
VMOT-2

Further Infos: http://hci.rwth-aachen.de/fabscan

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Designed by Andreas Watterott (Watterott electronic)
Based on the work of Francis Engelmann and Sebastian Setz

OSHW LOGO

X1 X2

FabScan-Shield_v10
07.12.2012 11:19:50
Sheet: 1/1

Dir   En
GND   VMot
3
1B 1A 2A 2B

Dir   En
GND   VMot
2
1B 1A 2A 2B

Dir   En
GND   VMot
1
1B 1A 2A 2B

GND

VMot

Power

GND

Laser

LED

5V

Reset

VMot-Vin

FabScan-Shield

THT Assembly

1
8 S3
1
1
8 S2
1
1
8 S1
1

1
8 M3
4 1
1
8 M2
4 1
1
8 M1
4 1

VMOT

LASER

LED

D4
1N4148

T1
BC547

4k7
R4