

A

B

C

D

Encoder input J4 14 pin

1 GND
 2 GND
 3 PA0
 4 PA1 Currentsensor +-2,5 v zero 2,5v 0,5V/A
 5 PA2
 6 PA3 Pendelläge 0 - 5 V
 7
 8
 9
 10
 11 +5V
 12 +5V
 13 +5V
 14 +5V

AUXinput/output J2 20 pin

1 GND
 2 GND
 3 PB0
 4 PB1 encoder B input no pullup
 5 PB2
 6 PB3
 7 PB4 zero input no pullup
 8 PB5
 9 PB6
 10 PB7 Led output
 11 PA4
 12 RXD/PD0
 13 PA3
 14 TXD/PD1
 15 PD7 Reset
 16 PD2 encoder A input nopullup
 17 PD6
 18 PD3
 19
 20 +5V

RS 232 J1 4 pin no drivers included

1 gnd
 2 +5V
 3 RXD
 4 TXD

TWI J5, J6, J12 3 pin .

1 gnd
 2 SDA
 3 SCL

Power output J10, J11 4 pin

1 GND
 2
 3 + 5V
 4 +V (11 - 24V norm 12V)

Motor power out 1 J8 2 pin plint

1 motor -
 2 motor +

Motor power out 1 J9 2 pin plint

1 motor -
 2 motor +

Input power DC J7 2 pin plint

1 gnd
 2 + V min 11 max 24 norm 12V DC

Programming J3 10 pin

1 MOSI
 2 +5V
 3 led
 4 GND
 5 reset
 6 GND
 7 SCK
 8 GND
 9 MISO
 10 GND

Drive motor 1 programming: X

PWM PD4
 Dir PC7
 Brake PC5
 Therm.flag PC3
 C-sense PA6

Drive motor 2 programming: Y

PWM PD5
 Dir PC6
 Brake PC4
 Therm.flag PC2
 C-sense PA7

ATMEGA 16 programming

To use PC2-PC5 (TCK, TMS, TDI, TDO), turn off support for JTAG.

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