

Bipolaire Microstap Driver
MSD-230-8

Warning !

This driver can output lethal voltages (above 300 V). Be extremely careful.

Waarschuwing !

Deze driver kan dodelijke spanningen (meer dan 300 Volt) afgeven. Wees zeer voorzichtig.

Vorsicht !

Diese Treiber kan totliche Spannungen (uber 300 Volt) abgeben. Seien Sie sehr vorsichtig.

Specifications:

Power Supply

Minimum Voltage : 80 Vac
Maximum Voltage : 250 Vac

Logic Signal Current minimal : 7 mA
Logic Signal Current maximal : 16 mA

Maximum input frequentie : > 400 Khz

Microsteps

Minimum number of microsteps : 2
Maximum number of microsteps : 50

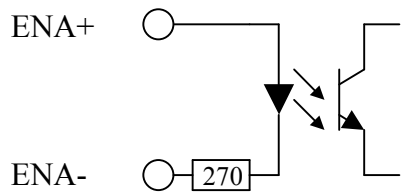
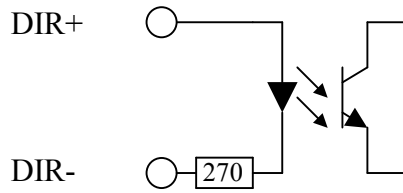
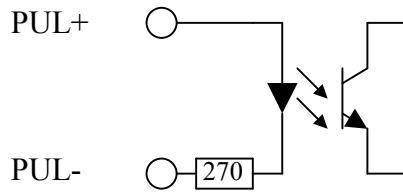
Number of Phases : 2

Steppermotor / Schrittmotor / moteur pas a pas / stappenmotor

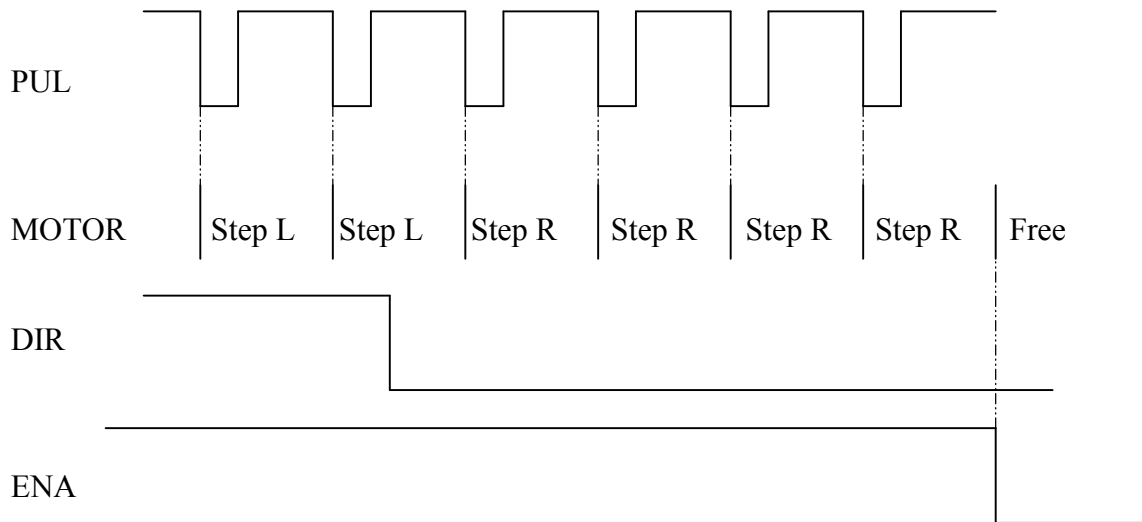
Minimum Phase Current : 0.45 A
Maximum Phase Current : 7.8 A

Number of motorwires (2 phase) : 4, 6, 8

Optocouplers :



Signals



Pulswidth min 1.2 uS
DIR to PUL preload 5 uS to falling edge of PUL

Dipswitches

S6 S7 S8 S9	Current	S6 S7 S8 S9	Current
0 0 0 0	0.45 A	1 0 0 0	4.26 A
0 0 0 1	0.63 A	1 0 0 1	4.65 A
0 0 1 0	1.41 A	1 0 1 0	5.2 A
0 0 1 1	1.88 A	1 0 1 1	5.55A
0 1 0 0	2.33 A	1 1 0 0	6.15 A
0 1 0 1	2.85 A	1 1 0 1	6.60 A
0 1 1 0	3.23 A	1 1 1 0	7.20 A
0 1 1 1	3.75 A	1 1 1 1	7.80 A

S5 = 1 = CW-CWW mode

S5 = 0 = PUL – DIR mode

S1 S2 S3 S4	microsteps	Step / Rotation	S1 S2 S3 S4	microsteps	Step / Rotation
1 1 1 1	2	400	1 1 1 0	12	2400
0 1 1 1	2.5	500	0 1 1 0	16	3200
1 0 1 1	3	600	1 0 1 0	20	4000
0 0 1 1	4	800	0 0 1 0	25	5000
1 1 0 1	5	1000	1 1 0 0	30	6000
0 1 0 1	6	1200	0 1 0 0	32	6400
1 0 0 1	8	1600	1 0 0 0	40	8000
0 0 0 1	10	2000	0 0 0 0	50	10000

0 = Off

1 = On

Connections

PUL+ : + 5 V
PUL- : STEP
DIR+ : + 5 V
DIR- : DIRECTION
ENA+ : + 5 V (optional)
ENA : SWITCH (optional)

Ac : Power Supply
Ac : Power Supply

A+ : A connection of 1 phase of stepper motor
A- : A\ connection of 1 phase of stepper motor

B+ : B connection of 2 phase of stepper motor
B- : B\ connection of 2 phase of stepper motor

Standard Connections (Example)

X-axes

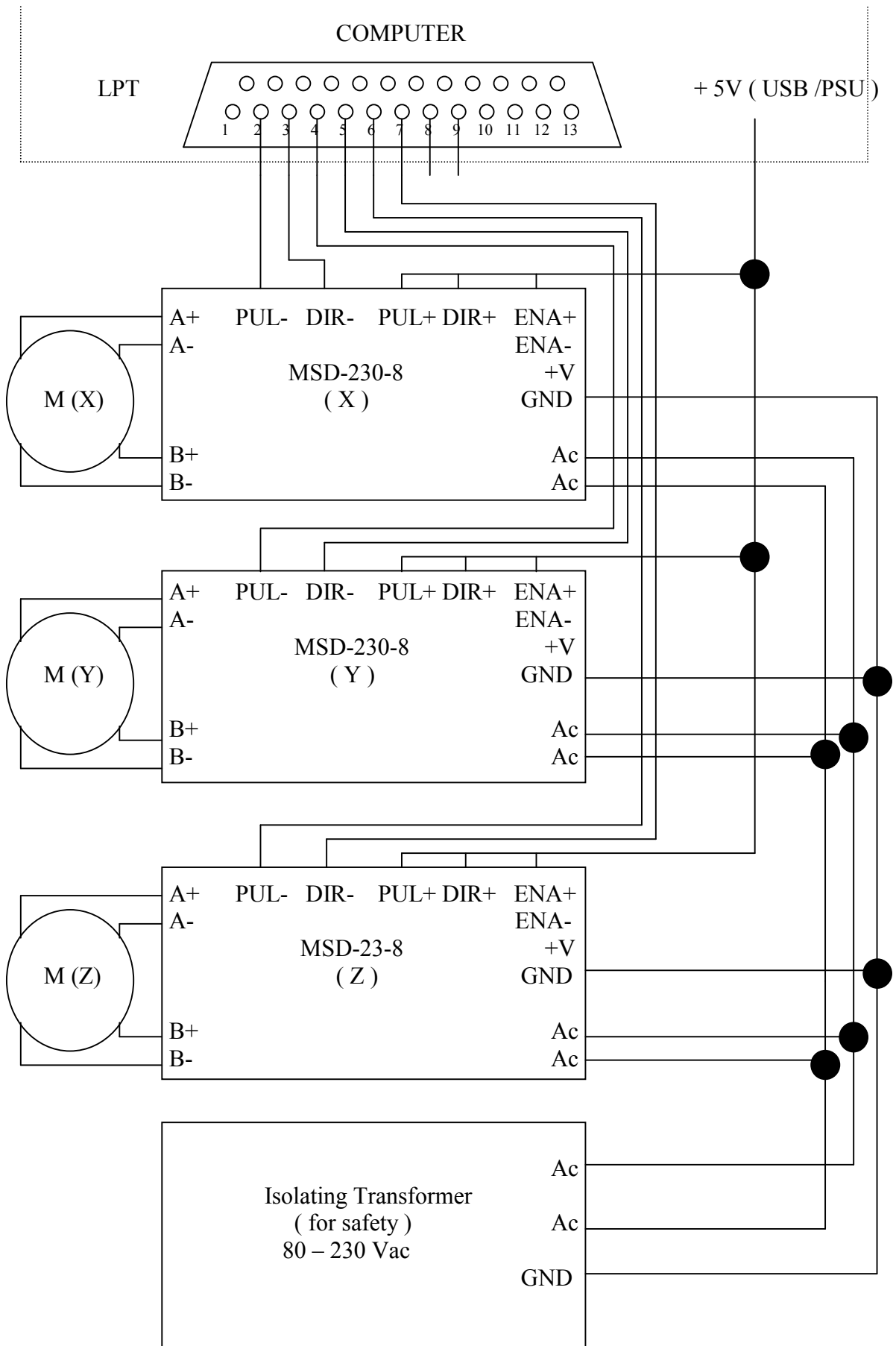
PUL+ : + 5 V
PUL- : LPT - 2
DIR+ : + 5 V
DIR- : LPT - 3
ENA+ : NC
ENA- : NC

Y-axes

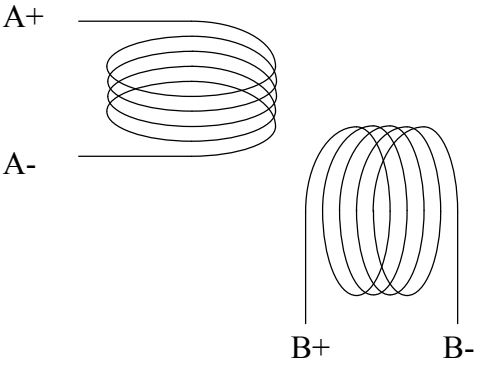
PUL+ : + 5 V
PUL- : LPT - 4
DIR+ : + 5 V
DIR- : LPT - 5
ENA+ : NC
ENA- : NC

Z-axes

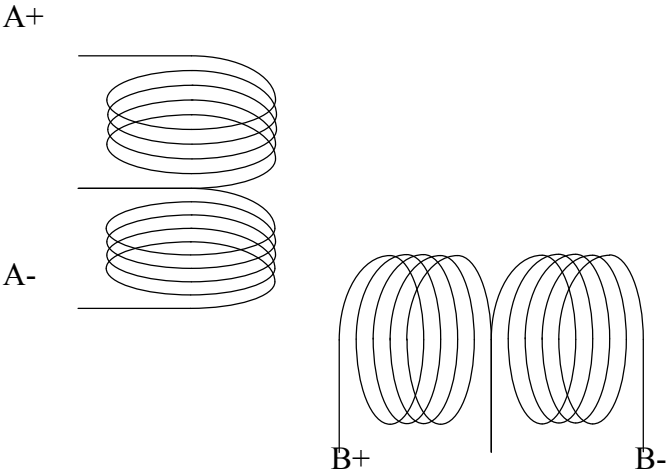
PUL+ : + 5 V
DIR- : LPT - 6
PUL+ : + 5 V
DIR- : LPT - 7
ENA+ : NC
ENA- : NC



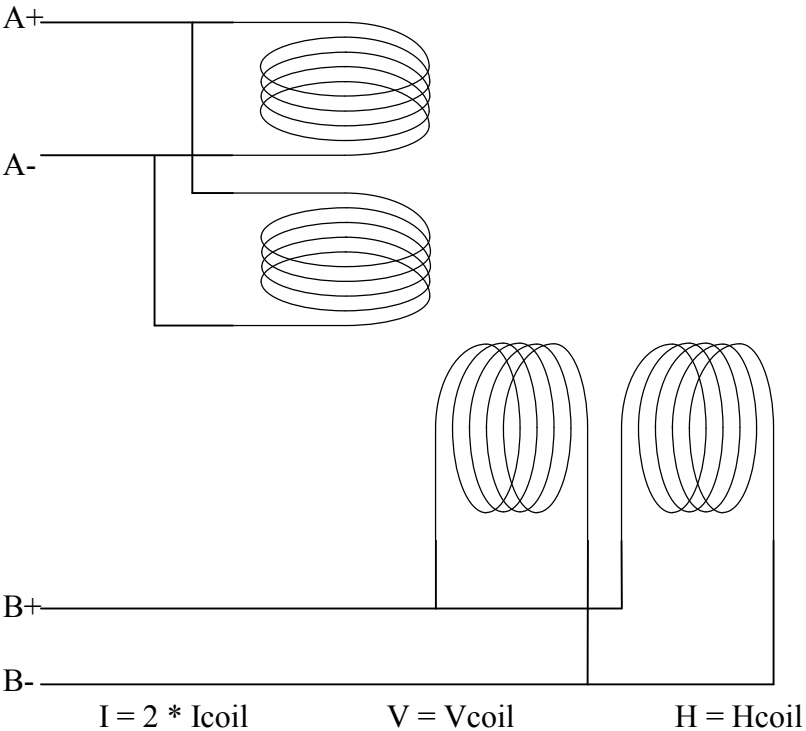
4 Wire 2 phase steppermotor



6 Wire 2 phase steppermotor



**8 Wire 2 phase steppermotor
Parallel connected**



**8 Wire 2 phase steppermotor
Serial connected**

