

# Bipolaire Microstep Driver SJ030

## Specifications:

### Power Supply

Minimum Voltage : 24 Vdc  
Maximum Voltage : 40 Vdc

### Microsteps

Minimum number of microsteps : 2  
Maximum number of microsteps : 40

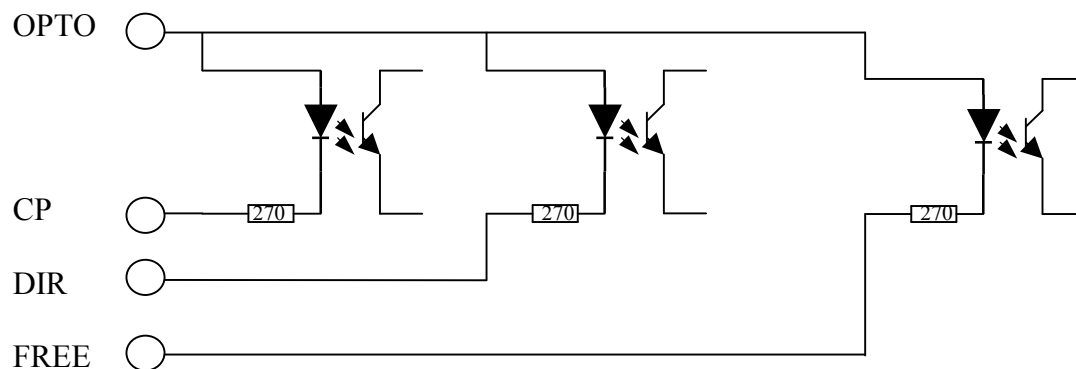
Number of Phases : 2

### Steppermotor

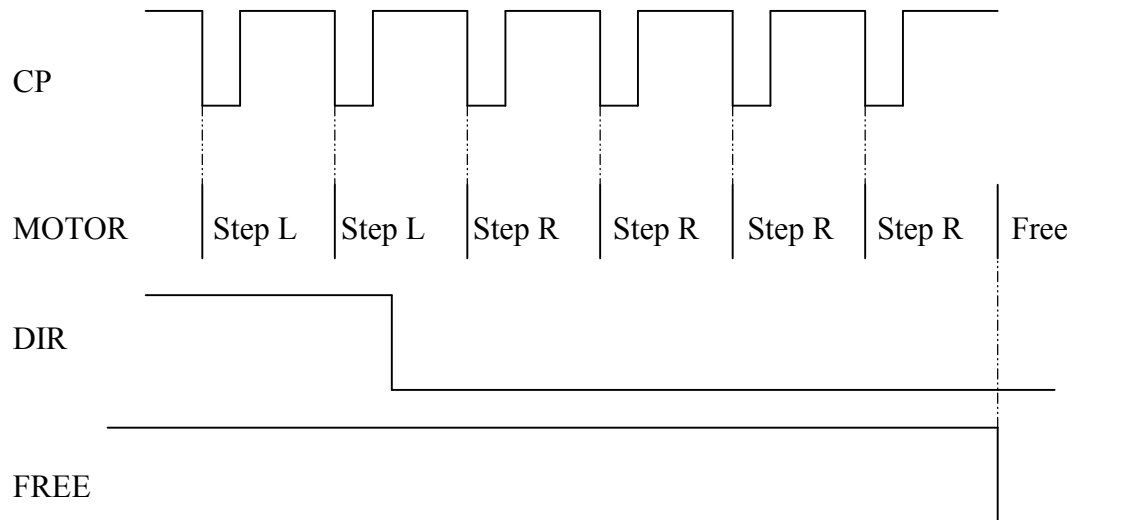
Minimum Phase Current : 0.5 A  
Maximum Phase Current : 3.0 A

Number of steppermotor wires ( 2 phase ) : 4, 6, 8

### Optocouplers :



### Signals



### Dipswitches

S1,S2,S3	microsteps	Step	Step / Rotation
0 0 0	2	0.9°	400
0 0 1	5	0.45°	1000
0 1 0	10	0.18°	2000
0 1 1	20	0.09°	4000
1 0 0	40	0.045°	8000

S4 = 1

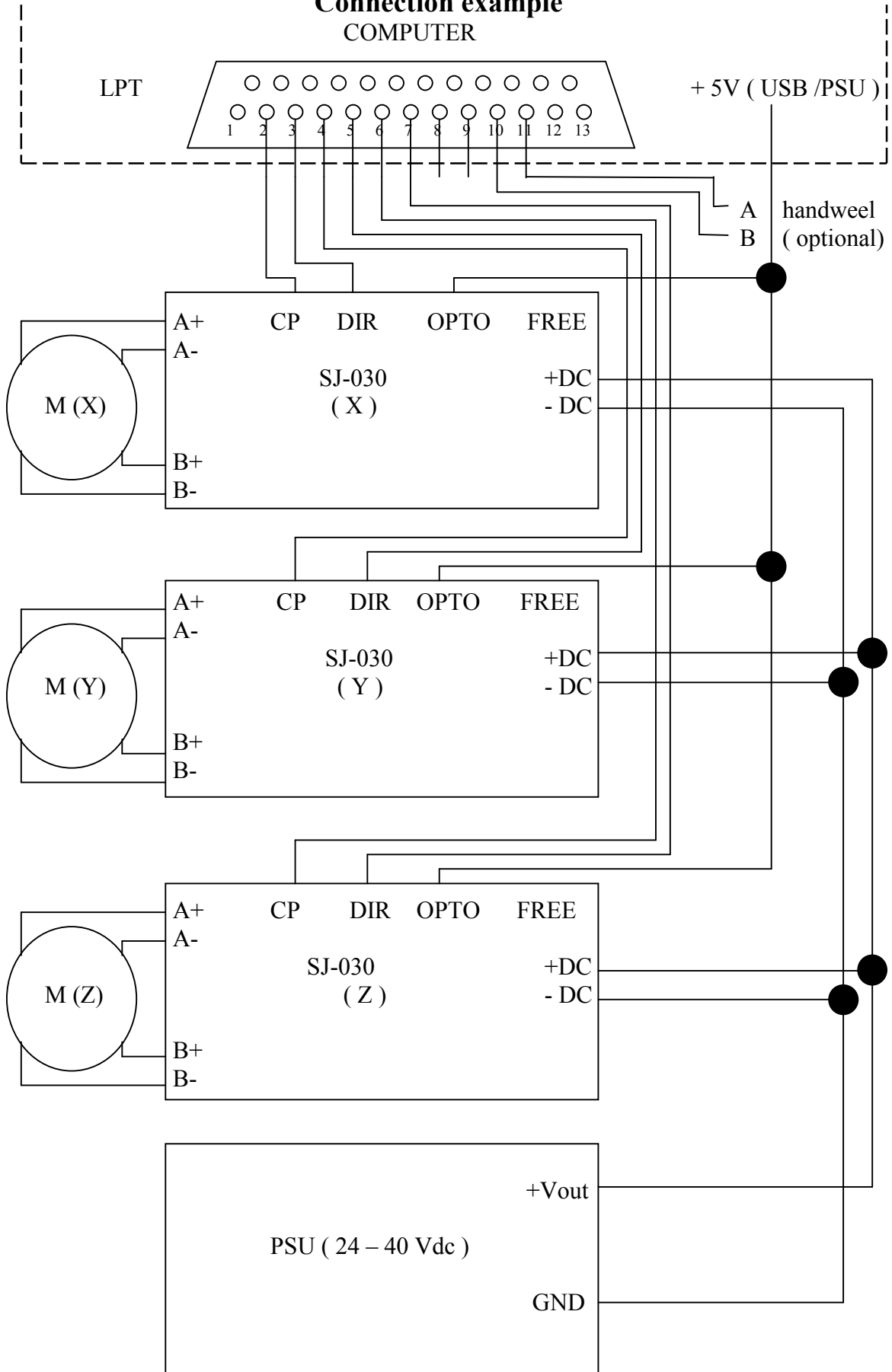
S5 = 1

S6 S7 S8	Current	S6,S7,S8	Current
0 0 0	0.5 A	1 0 0	1.7 A
0 0 1	1.0 A	1 0 1	2.0 A
0 1 0	1.3 A	1 1 0	2.4 A
0 1 1	1.5 A	1 1 1	3.0 A

## Connections

OPTO	: + 5 V
CP	: STEP
DIR	: DIRECTION
FREE	: SWITCH ( optional )
+ DC	: Positive of Power Supply
- DC	: Negative of Power Supply ( or ground )
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

### Connection example COMPUTER



## Standard Connections ( Example )

X-axes

OPTO : + 5 V  
CP : LPT - 2  
DIR : LPT - 3  
FREE : NC

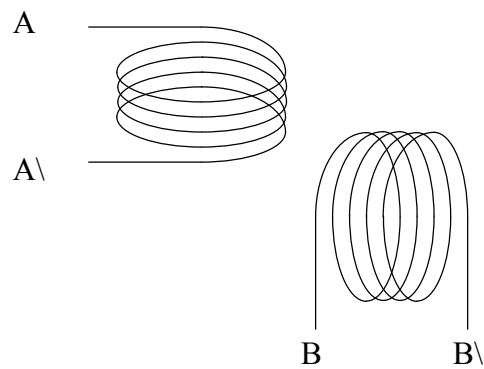
Y-axes

OPTO : + 5 V  
CP : LPT - 4  
DIR : LPT - 5  
FREE : NC

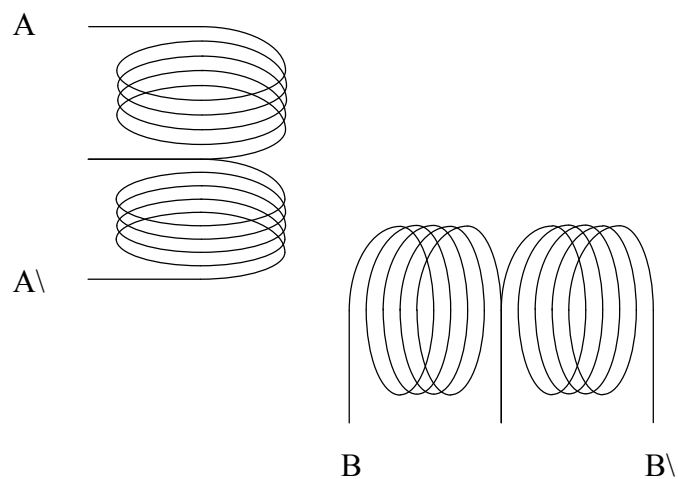
Z-axes

OPTO : + 5 V  
CP : LPT - 6  
DIR : LPT - 7  
FREE : NC

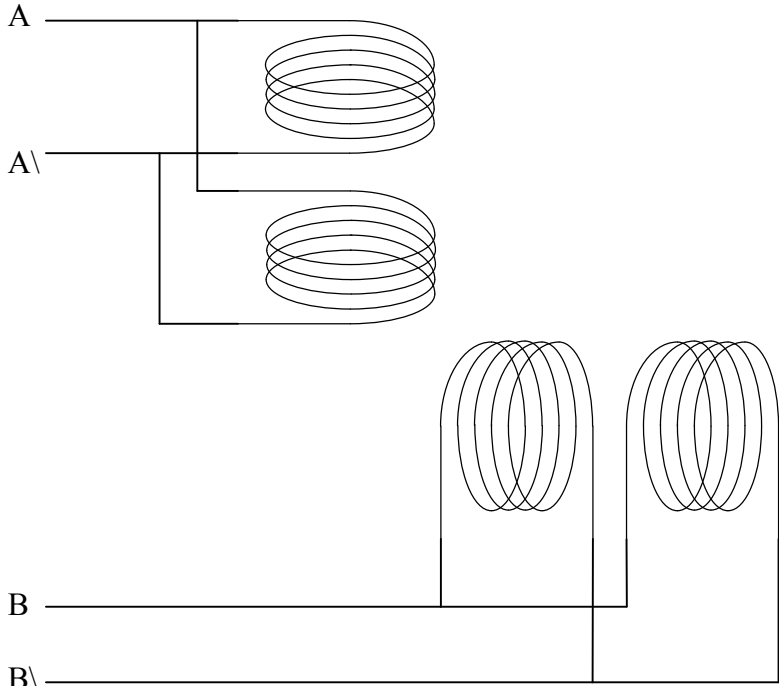
### 4 Wire 2 phase steppermotor



### 6 Wire 2 phase steppermotor

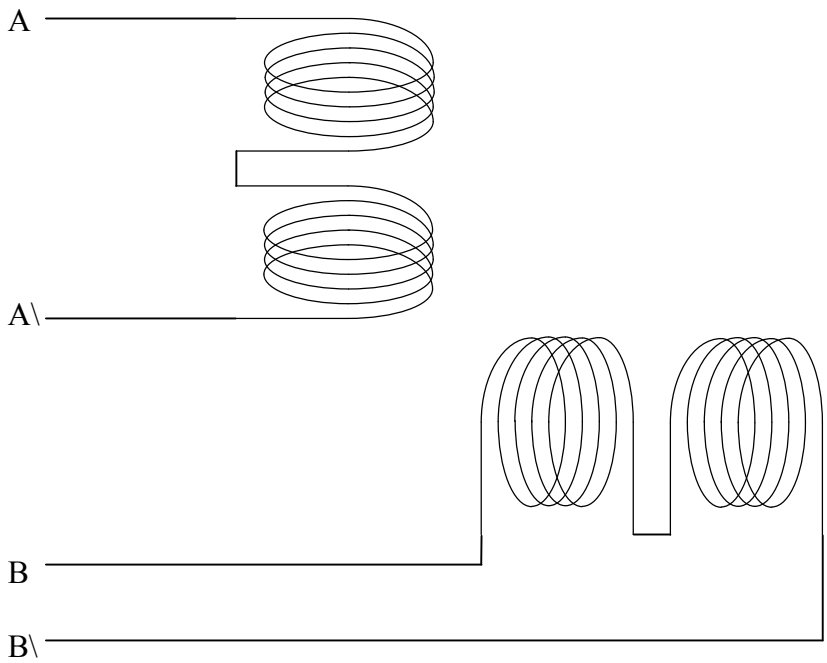


**8 Wire 2 phase steppermotor  
Parallel connected**



$I = 2 * I_{coil}$        $V = V_{coil}$        $H = H_{coil}$

**8 Wire 2 phase steppermotor  
Serial connected**



$I = I_{coil}$        $V = 2 * V_{coil}$        $H = 4 * H_{coil}$