Stepper Motor Drive (2 Phase Micro stepping)

SEAD 860H

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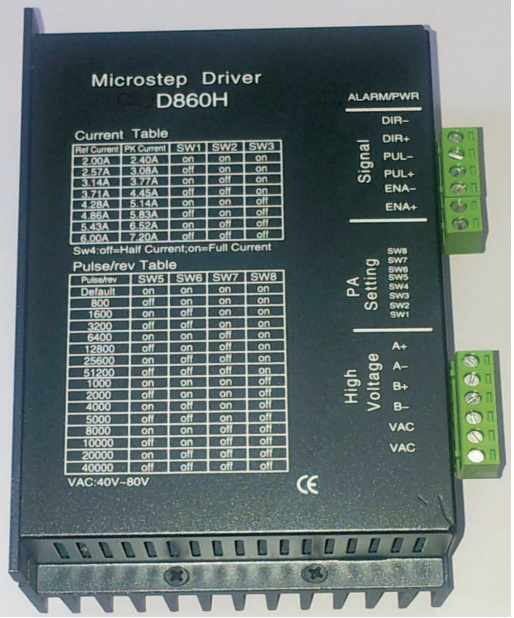


SEAD860H a new high-performance digital stepper motor driver. It takes 32 bit DPS technology. We use the newest control algorithm to reduce the noise and vibration in a large scale when the motor works.
It has the characteristics of low noise, low vibration, low temperature rising, etc.

Characterstics

1. Power input type: AC 20V ~ 80VAC or DC 24V ~ 110V
2. Output current: 2.0A ~ 8.0A
3. Mircostepping:1(1.8º) 1/256 is 51200 step / rev.
4. Protect form :Overheated protect, lock automatic half current, error connect protect
5. Dimensions:100mm×158mm×59mm
6. Weight:<700g.
7. Working environment:Temperature-15 ~ 40℃ Humidity<90.

I /O Ports

1. AC Input upto 80VAC & DC Input upto 110VDC
   Note: It should exceed 80VAC or 110VDC
2. A+ A-: Stepping motor one winding
3. B+ B-: Stepping motor other winding
4. PUL+ PUL -: Stepping pulse input+5V (Rising edge effective, rising edge duration >10μS)
5. DIR + DIR-:Stepping motor direction input, voltage level touched off,high towards, low reverse
6. ENA+ ENA-: motor free

Switch Choice

("ON=0,OFF=1")

Microstepping Setting

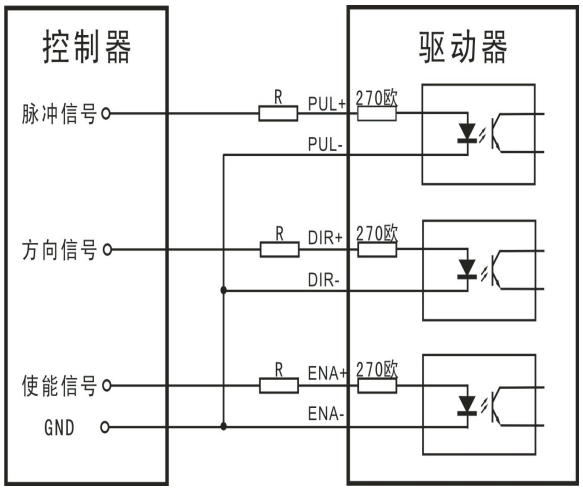
SW5SW6SW7SW8	MICRO STEP
0 0 0 0	DEFAULT
1 0 0 0	4
0 1 0 0	8
1 1 0 0	16
0 0 1 0	32
1 0 1 0	64
0 1 1 0	128
1 1 1 0	256
0 0 0 1	5
1 0 0 1	10
0 1 0 1	20
1 1 0 1	25
0 0 1 1	40
1 0 1 1	50
0 1 1 1	100
1 1 1 1	200

Current Setting

SW1SW2SW3	RMS	Peek
0 0 0	2.00A	2.40A
1 0 0	2.57A	3.08A
0 1 0	3.14A	3.77A
1 1 0	3.71A	4.45A
0 0 1	4.28A	5.14A
1 0 1	4.86A	5.83A
0 1 1	5.43A	6.52A
1 1 1	6.00A	8.00A

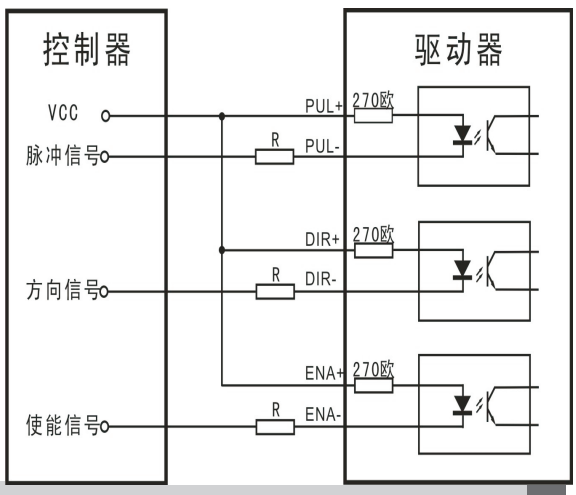
Wiring Diagram

Controller Drive



Common Cathod

Controller Drive



signal amplitude	External current limiting resistor
5V	without
12V	680Ω
24V	1.8KΩ

Mechanical Specifications