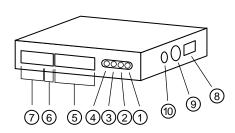
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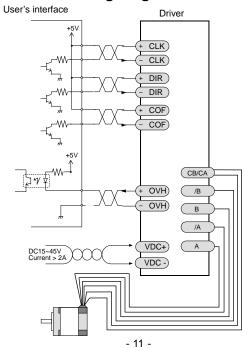
7. Specification

Item	2 phase micro step drive
Drive Method	Constant Current (unipolar)
Power	DC15~45V@2A
Driver Current	0.3~1.0A/Phase
Auto-Current	20%~65%
-Down	
Resolution	1600step/ r (0.225°/ step)
Pulse Width	> 5us
Direction Response	> 20us
Input Signal	L:0~+0.5V, H:+4~+24V
Breakdown Voltage	20mA
Input Signal	220Ω
Impedance	
Output Signal	Open Collector
Signal Standard	40V、20mA (Max)
Connection Method	Removable Connector
Temperature	0~40°C
Moisture	10~85% RH
Dimension (mm)	100(L) x 62(W) x 22(H)
Wight	160g

2. Names and Functions of Driver



5. Connecting Diagram

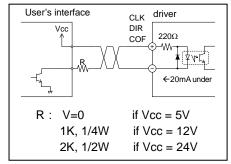


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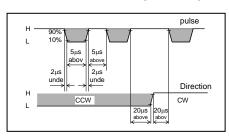
2.2 Signal Output Terminal

Indicator	Description
⑤ CLK	Pulse signal Input terminal When input one pulse signal, the motor will running one step.
DIR	Direction signal input terminal Control the motor running direction, when High the motor will be CCW, when Low the motor will be CW。
COF	Excite mega tic release signal input terminal
	When add a high voltage in this point, driving current will down to 0 immediately.
OVH	Overheat input terminal
	When the driver's transistor overheat, this point will normal open.

3. Input Signal Circuit



3.1 Pulse / Direction Signal Diagram



2.5 Setting Function Switch

- 2 -

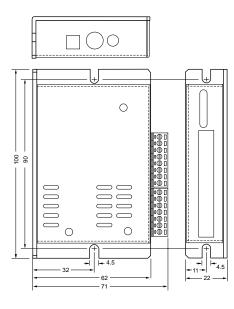
Indicator	Description
® OFF OVH	OFF: When driver overheat, it will only output signal, but he motor wouldn't stop.
	OVH: When driver overheat, If want to motor stop, to set the switch OVH.
G O TST	G O : In normal running, to set the switch GO.
	TST: When self-testing, to set the switch TST.
	Drive will bring about 20Hz pulse speed to driving the motor run.
OFF	OFF: When motor stop, If want to
ACD	current fixed, to set the switch OFF.
	ACD: After motor stop about 0.3
	sec, drive current auto-down.

2.6 Run Current Setting

Des	scription
16 driving currer	nt setting
0 → 0.20	8 → 0.69
1 → 0.25	9 → 0.76
2 → 0.32	$A \rightarrow 0.83$
3 → 0.37	B → 0.90
4 → 0.44	C → 0.98
5 → 0.50	D → 1.05
6 → 0.57	E → 1.13
7 → 0.63	F → 1.20
	16 driving currer $0 \rightarrow 0.20$ $1 \rightarrow 0.25$ $2 \rightarrow 0.32$ $3 \rightarrow 0.37$ $4 \rightarrow 0.44$ $5 \rightarrow 0.50$ $6 \rightarrow 0.57$

-4- -6- -7-

6. Dimension



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2.7 Stop Current Setting

Indicator	Description
⊚STOP	It is for driving current down, when motor stop. Clockwise rotating → Max to 20% Counterclockwise rotating → Max to 65%
	ex : rotating current to set F = 1.2A clockwise, when motor stop, the current will down to 0.93A counterclockwise, when motor stop, the current will down to 0.41A

1. Product Outline

- per loop.(each step at 0.225°)
- C. Can select 16 driving current adjustment,
- D. Auto-urrent-Down (ACD) function for
- E. Overheating protection and signal output
- tic release.
- G. Use the removable connector for easy
- pulse frequency.

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2.3 DC Power Input Terminal

Indicator	Description
⑥ VDC	Power input terminal
	DC15~45V, Current > 2A。

2.4 Wiring Connection to Motors

· ·	
Indicator	Description
CA	Motor A phase common
⑦ _{СВ}	Motor B phase common.
Α	Motor A phase
/A	Motor A priase
В	Motor B phase
/B	iviolor B priase

A. Low vibration, high resolution, 1600 steps

B. DC15~45V Power Input (Current > 2A)

0.3~1.5A/phase

reduced motor heat.

function.

F. Output signal can control the excite mega

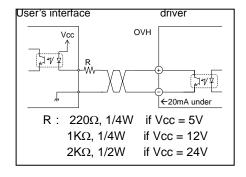
connection.

H. High speed photo coupler to increase input

I. SMD design, driver fine and delicate.

J. Self-testing function.

4. Output Signal Circuit



High-Performance Phase Micro Step Motor Driver

DPYHHDU2220000000

User Manual

Please read this operating manual thoroughly before installing and operating the driver, and always keep the manual where it is readily accessible.

VER. NOV-Y2K1-MD26-M01

2.1 Induction of LED

Indicator	Description
① COF	Excite mega tic release light
<u></u>	When driver receive the excite mega tic release signal, COF will be light.
)	Overheat light.
<u> </u>	When the temperature of driver is over85°C, OVH will be light.
CLK	Pulse signal indicate light.
(4)	Driver received one pulse signal, CLK will light once. When the pulse high speed, the CLK will keep the light at all time.
PWR	Power input light.
	When driver accept DC15~45V, PWR will be light.