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# Supply ODM Electric Bike Motor - Closed loop motor driver-HBS86H - Longs Motor

## 1. Overview

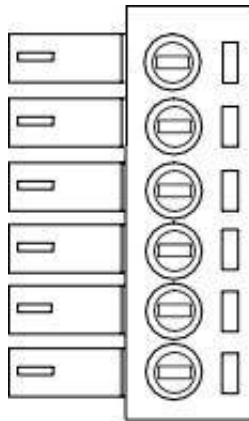
The HBS86H hybrid stepper servo drive system integrates the servo control technology into the digital stepper drive perfectly. And this product adopts an optical encoder with high speed position sampling feedback of 50  $\mu$  s, once the position deviation appears, it will be fixed immediately. This product is compatible the advantages of the stepper drive and the servo drive, such as lower heat, less vibration, fast acceleration, and so on. This kind of servo drive also has an excellent cost performance.

### 1. Features

- u Without losing step, High accuracy in positioning
- u 100% rated output torque
- u Variable current control technology, High current efficiency
- u Small vibration, Smooth and reliable moving at low speed
- u Accelerate and decelerate control inside, Great improvement in smoothness of starting or stopping the motor
- u User-defined micro steps
- u Compatible with 1000 and 2500 lines encoder
- u No adjustment in general applications
- u Over current, over voltage and over position error protection
- u Green light means running while red light means protection or off line

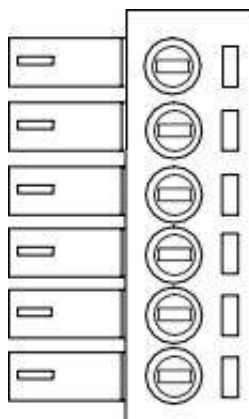
## 3. Ports Introduction

### 3.1 ALM and PEND signal output ports



Port	Symbol	Name	Remark
1	PEND+	In position signal output +	+
2	PEND-	In position signal output -	
3	ALM+	Alarm output +	
4	ALM-	Alarm output -	

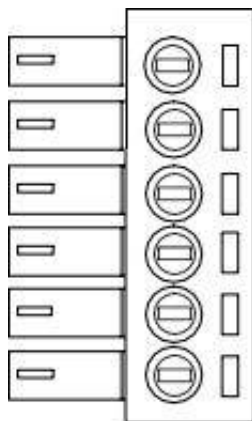
### 3.2 Control Signal Input Ports



Port	Symbol	Name	Remark

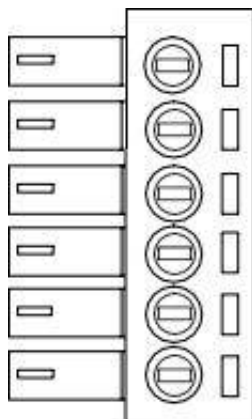
1	PLS+	Pulse signal +	Compatible with 5V or 24V
2	PLS-	Pulse signal -	
3	DIR+	Direction signal+	Compatible with 5V or 24V
4	DIR-	Direction signal-	
5	ENA+	Enable signal +	Compatible with 5V or 24V
6	ENA-	Enable signal -	

### 3.3 Encoder Feedback Signal Input Ports



Port	Symbol	Name	Wiring color
1	PB+	Encoder phase B +	Blue
2	PB-	Encoder phase B -	White
3	PA+	Encoder phase A +	Yellow
4	PA-	Encoder phase A -	Green
5	VCC	Input power	Red
6	GND	Input power ground	Black

### 3.4 Power Interface Ports



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Port	Identification	Symbol	Name	Remark
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Product link : <a href="https://www.longs-motor.com/?p=9795">https://www.longs-motor.com/?p=9795</a>				
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