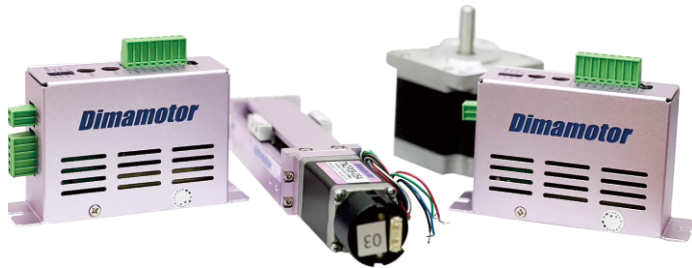


5-Phase microstepping motor system

DS514HMD SERIES

Feature:



- Using DC24V power supply, the accident rate is low, and it is applicable to all parts of the world without safety regulations.
- Maximum 250 divisions (125000 pulse/rev), 16 divisions can be set
- It can be applied to ball lead screws of various brands with leads of 2mm and multiples of 5mm.
- Signal input, DC2~24V, all fields, no current limiting resistor required
- Start-up slow-start mechanism, effectively suppress the vibration at the moment of start-up
- Adopt new pentagonal drive mode, low vibration, low noise, and the motor runs more smoothly.
- Equipped with power protection function to prevent accidental damage caused by wrong power supply.
- With self-detection function, reducing the accident judgment time.

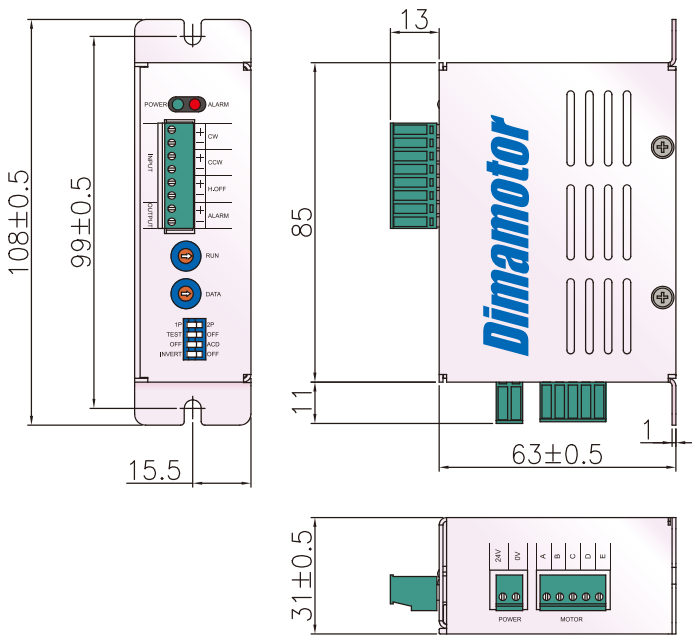
■ Specification

Model		DS514HMD
Input power		DC24V (3A and above)
Drive current		0.4~1.4A/phase
Step angle setting		full step/half step/2.5/4/5/8/10/20/25/40/50/80/100/125/200/250
Maximum response frequency		800KHZ
Signal input/output method		* Optocoupler input interface * Open collector output interface
Input signal	Forward pulse input	For double pulse: Forward direction input, single pulse: pulse input
	Reverse pulse input	Double pulse : reverse direction input, single pulse : running direction input
	H.OFF input	Excitation release input (HOLD OFF)
Output signal	ALARM input	When an abnormal alarm occurs, the red ALARM LED light will flash. At the same time, ALARM+ outputs "L" level
Basic skills		* Self-test function * Automatic current drop (ACD) function * Step angle switching function * Pulse input mode (1P/2P) switching function
Protection mechanism		* Power reverse connection protection * External overvoltage protection * Internal overvoltage protection * Signal terminal overvoltage protection * Overcurrent protection
light display		POWER(GREEN) ALARM(RED)
Ambient temperature (°C)		0°C ~ +40 °C (Non-condensing state)
Dimensions (mm)		85(L)(With feet 108) × 63(W) × 31(H)
Weight (g)		169

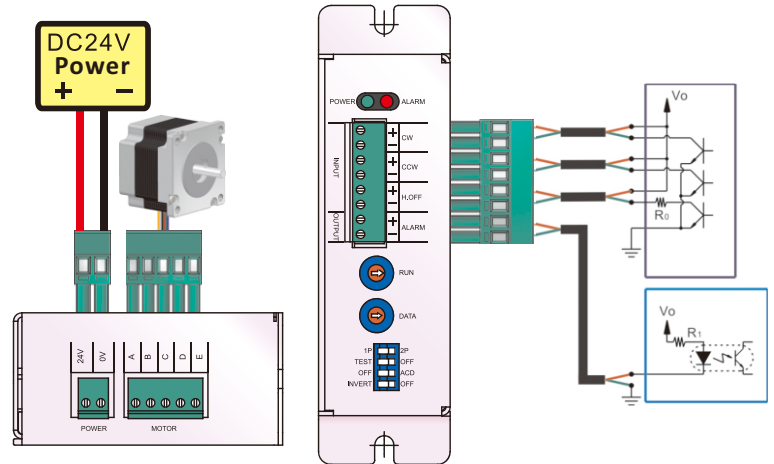
Dimamotor

An efficient drive comes from an efficient motor

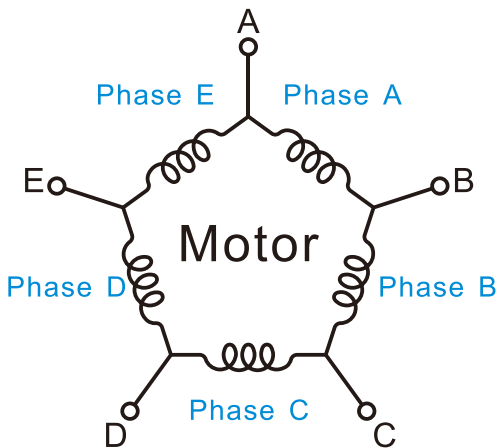
■ Dimensions (unit: mm)



■ System wiring diagram



■ 5-Phase stepping motor internal wiring diagram



■ Wiring comparison table of stepper motors of various brands

Phase	<i>Dimamotor</i>	TAMAGAWA	SANYO DENKI	Orientalmotor
A	Blue	Blue	Blue	Blue
B	Red	Red	Red	Red
C	Orange	Orange	Orange	Orange
D	Green	Green	Green	Green
E	Black	Black	Black	Black

Dimamotor

An efficient drive comes from an efficient motor

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