Overview Motor & Driver **Stepper Motors** 5-Phase RKII **Driver Driver** Driver Motor 2-Phase PKP 5-Phase PKP

Bipolar Driver for 2-Phase Stepper Motors Driver for 5-Phase Stepper Motors

 For detailed information about regulations and standards, please refer to the Oriental Motor website.



This is a DC power supply input driver for stepper motors. A bipolar driver for 2-phase stepper motors and a driver for 5-phase stepper motors are available.

Using this microstepping driver reduces vibration and noise.

See Full Product Details Online www.orientalmotor.com

- Manual
- Specifications
- Dimensions

- CAD
- Characteristics
- Connection and Operation

Features and Types

Bipolar Driver for 2-Phase Stepper Motors
 Driver for 5-Phase Stepper Motors

Driver Type		External View	Introduction	Driver Installation Direction
Bipolar Driver for 2-Phase Stepper Motors Driver for 5-Phase Stepper Motors 52.5 mm (2.07 in.)	Right Angle Type with Installation Plate	The connector points outward.	Compact and lightweight driver with full-time microstepping. Using the smooth drive function reduces the vibration and noise more than conventional products.	Horizontal installation
24.5 mm (0.96 in.) 85 mm (3.35 in.) Mass 20 g (0.71 oz.)~70 g (2.47 oz.) (The value differs according to the driver type.) The driver cannot be shared by both a 2-Phase stepper motors and 5-Phase stepper motors. Each must use its respective dedicated driver.	Without Installation Plate	The connector points upward.	The driver is equipped with a protective function that enables you to find driver errors early. Run current can be easily set with the digital switch.	Vertical installation

Additional Product Line

♦ Bipolar Driver S Type for 2-Phase/5-Phase Stepper Motors



This is a compact board mounting type driver. For details, please contact the nearest Oriental Motor sales office.

◇CVK Series **SC** Type Driver

This driver allows the stepper motors to operate like a speed control motor.

It can be operated easily by using the forward and reverse inputs only.

- No Pulse Generator Required
- Available for Setting in Two Speeds
- Compact and High-Torque
- Enhanced Repeatability of the Stop Position
- Possible to Hold the Load at Standstill



For details, please contact the nearest Oriental Motor sales office.

Bipolar Driver for 2-Phase Stepper Motors Driver for 5-Phase Stepper Motors

Product Number

CVD 2 23 F B R - K

1

2

4

(5)

7

1	Driver Type	
2	2: 2-Phase 5: 5-Phase	
3	Rated Current	
4	Driver Identification	
(5)	Driver Shape	B : With Installation Plate Blank: Without Installation Plate
6	Connector Shape	R: Right Angle
7	Power Supply Input	K: DC Power Supply

Product Line

We have prepared a connection cable set (sold separately) consisting of motor, power supply, and I/O signal cables. The connectors are already crimped, which makes them easy to wire without crimp tools.

Bipolar Driver for 2-Phase Stepper Motors

Product Name	List Price			
CVD205BR-K				
CVD206BR-K]			
CVD215BR-K	\$135.00			
CVD223BR-K				
CVD223FBR-K]			
CVD228BR-K	1			
CVD242BR-K	\$150.00			
CVD245BR-K	\$150.00			

⇔Without Installation Plate

Liet Drice	
List Price	
¢120.00	
\$130.00	
1	
1	

Driver for 5-Phase Stepper Motors

Product Name	List Price		
CVD503BR-K			
CVD507BR-K			
CVD512BR-K	¢1.45.00		
CVD514BR-K	\$145.00		
CVD518BR-K			
CVD524BR-K			
CVD528BR-K	\$160.00		
CVD538BR-K	\$100.00		

♦ Without Installation Plate

List Price		
€140.00		
\$140.00		

Included

Туре	Connector for Driver Connection	Operating Manual	
Common to All Types	CN1 Connector (1 pc.), CN2 Connector (1 pc.), CN3 Connector (1 pc.)	1 Copy	

Overview

Motor & Driver

5-Phase

.

Motor

2-Phase PKP

5-Phase PKP

Specifications

Bipolar Driver for 2-Phase Stepper Motors

(€

Product Name		CVD205□□-K	CVD206□□-K	CVD215K	CVD223	CVD228□□-K	CVD242BK	CVD245BK
Driving Meth	iod	Microstep Drive, Bipolar, Constant Current Drive Method						
Motor Driving Current (Factory Setting)		0.5 A/Phase	0.6 A/Phase	1.5 A/Phase 2.3 A/Phase		2.8 A/Phase	4.2 A/Phase	4.5 A/Phase
Power Suppl	y Voltage	24 VDC±10%						
Input Curren	t A	0.5	0.5	1.3	2.0	3.0	3.6	3.9
Max. Input P	ulse Frequency		Line driver output by programmable controller: 1 MHz (When the pulse duty is 50%) Open-collector output by programmable controller: 250 kHz (When the pulse duty is 50%) Negative Logic Pulse Input					
Operating	Ambient Temperature		0 to +50°C (+32 to +122°F) (Non-freezing)					
Environment	Ambient Humidity	85% or less (Non-condensing)						
(In operation)	Surrounding Atmosphere	tmosphere No corrosive gas or dust. No water or oil.						

[●] For the right angle type with an installation plate, the box 🗆 in the product name indicates the driver shape **B** (with installation plate), the box 🛄 indicates the connector shape **R** (right angle).

Driver for 5-Phase Stepper Motors



Pr	roduct Name	CVD503□□-K	CVD507□□-K	CVD512 -K	CVD514K	CVD518	CVD524B K	CVD528BK	CVD538BK
Driving Method Microstep Drive, Bipolar, Constant Current Drive Method									
Motor Driving Current (Factory Setting)		0.35 A/Phase	0.75 A/Phase	1.2 A/Phase	1.4 A/Phase	1.8 A/Phase	2.4 A/Phase	2.8 A/Phase	3.8 A/Phase
Power Supply Voltage				24 VDC±10%					
Input Current A		0.6	1.4	1.7	1.8	2.8	3.0	4.8	4.8
Max. Input P	ulse Frequency	Line driver output by programmable controller: 1 MHz (When the pulse duty is 50%) Open-collector output by programmable controller: 250 kHz (When the pulse duty is 50%) Negative Logic Pulse Input							
Operating Ambient Temperature 0 to +50°C (+32 to +122°F) (Non-freezing)									
Environment	Ambient Humidity	85% or less (Non-condensing)							
(In operation)	Surrounding Atmosphere	No corrosive gas or dust. No water or oil.							

[●] For the right angle type with an installation plate, the box 🗆 in the product name indicates the driver shape **B** (with installation plate), the box 🛄 indicates the connector shape **R** (right angle).

For details (specifications, characteristics, dimensions and more) on these products, please either refer to our website or contact technical support or your nearest Oriental Motor sales office.