



ORIENTAL MOTOR U.S.A. Corp.
570 Alaska Avenue
Torrance, CA 90503
1-800-GO-VEXTA (468-3982)

Item # CVD223-K, CVD 2-Phase Bipolar Driver (24 VDC)



2-phase, fully digital, bipolar microstepping driver, CVD

- 32 Motor Resolution Settings
- Low Vibration Driver type

CE

Web Price

\$157.00

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Specifications

Lead Time¹ Up to 5 pcs as of 6:30am EST Estimated Ship: 02/09/2026

Driver Type 2-Phase, Pulse Input

Driver Board Type

Power Supply 24 VDC

Input Current 2 A

Output Current 0.58 ~ 2.3 A/phase

Excitation Mode Microstep

Lead Wires 4

RoHS Compliant These products do not contain substances that exceed the regulation values in the RoHS Directive.

Safety Standards CE



California Proposition 65**⚠ CA WARNING**

Cancer risk from exposure to Nickel. See www.P65Warnings.ca.gov

Risk of reproductive harm from exposure to Di-n-hexyl phthalate (DnHP). See www.P65Warnings.ca.gov

Risk of cancer and reproductive harm from exposure to Di(2-ethylhexyl phthalate (DEHP). See www.P65Warnings.ca.gov
See "?" or copy/paste www.P65Warnings.ca.gov in your browser.

Dimensions

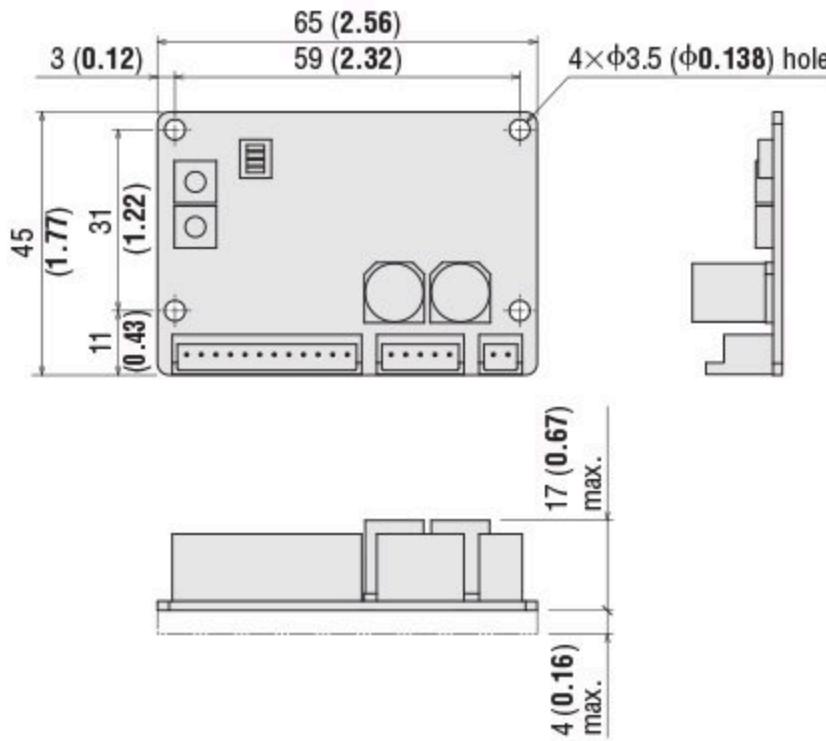
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● Driver Unit = mm (in.)

Driver Product Name: CVD205-K, CVD215-K, CVD223-K, CVD228-K,
CVD503-K, CVD507-K, CVD512-K, CVD514-K, CV518-K, CVD524-K

Mass: 0.02 kg (0.71 oz)

CAD B1128

**● Included**

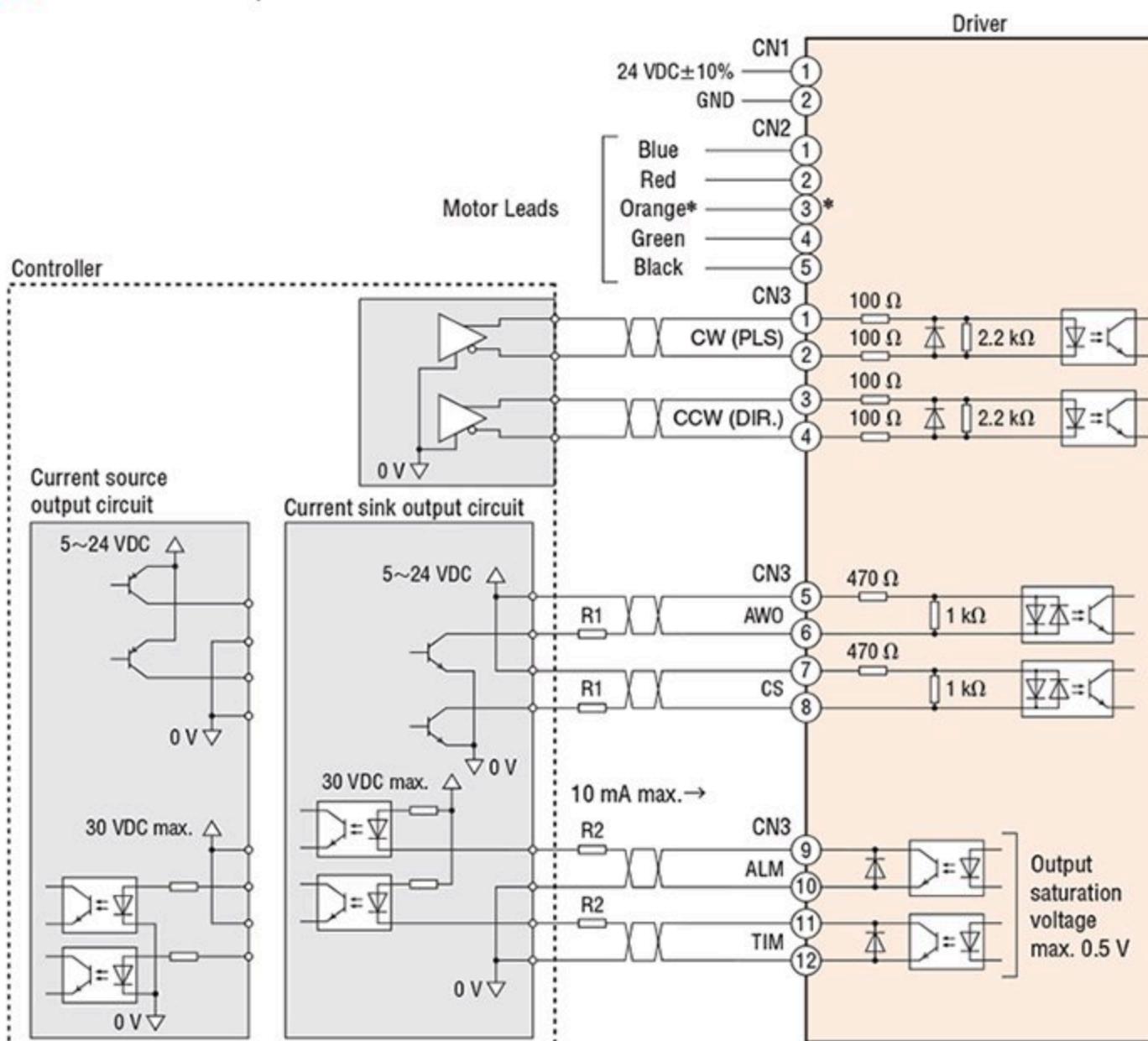
Connector housing: 51103-0200
51103-0500
51103-1200
Connector: 50351-8100 (Molex)

Connection

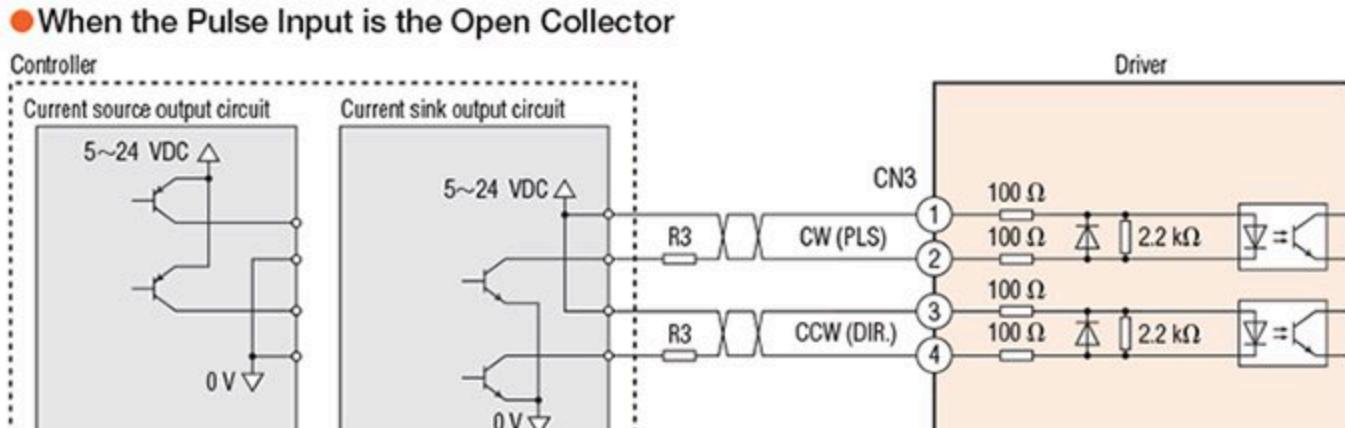
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■ Connection Diagram

● When the Pulse Input is the Line Driver



● When the Pulse Input is the Open Collector



[Note on Wiring]

◇ I/O Signal Connection

● Input signal

Use 5 VDC for input signal.

When applying a voltage that exceeds 5 VDC, connect an external resistor R1 so that the current is between 5~15 mA. (AWO, CS)

When the pulse is input by an open collector and a voltage that exceeds 5 VDC for CW Input and CCQ Input is going to be applied, connect an external resistor R3 so that the current is between 7~20 mA.

● Output signal

For output signal, please use 30 VDC, 10 mA or less. When the current value exceeds 10 mA, please connect an external resistor R2.

● Use a twisted-pair wire AWG24~22 (0.2~0.3 mm²).

● Since the maximum transmissible frequency drops as the pulse line becomes longer, keep the wiring length as short as possible within 2 m (6.6 ft.).

● Provide a distance of 100 mm (3.94 in.) min. between the I/O signal lines and power lines (power supply lines, motor lines, etc.).

◇ Power Supply Connection

● Use AWG22 (0.3 mm²) wires.

● Incorrect polarities of the DC power-supply input will lead to driver damage. Make sure that the polarity is correct before turning the power on.

◇ Extension of Motor Cable

● Use AWG22 (0.3 mm²) or thicker wires.

◇ General

● A separate hand crimp tool is required to crimp the supplied power connector included and lead wire. Accessory connection cables (sold separately) are crimped by hand.

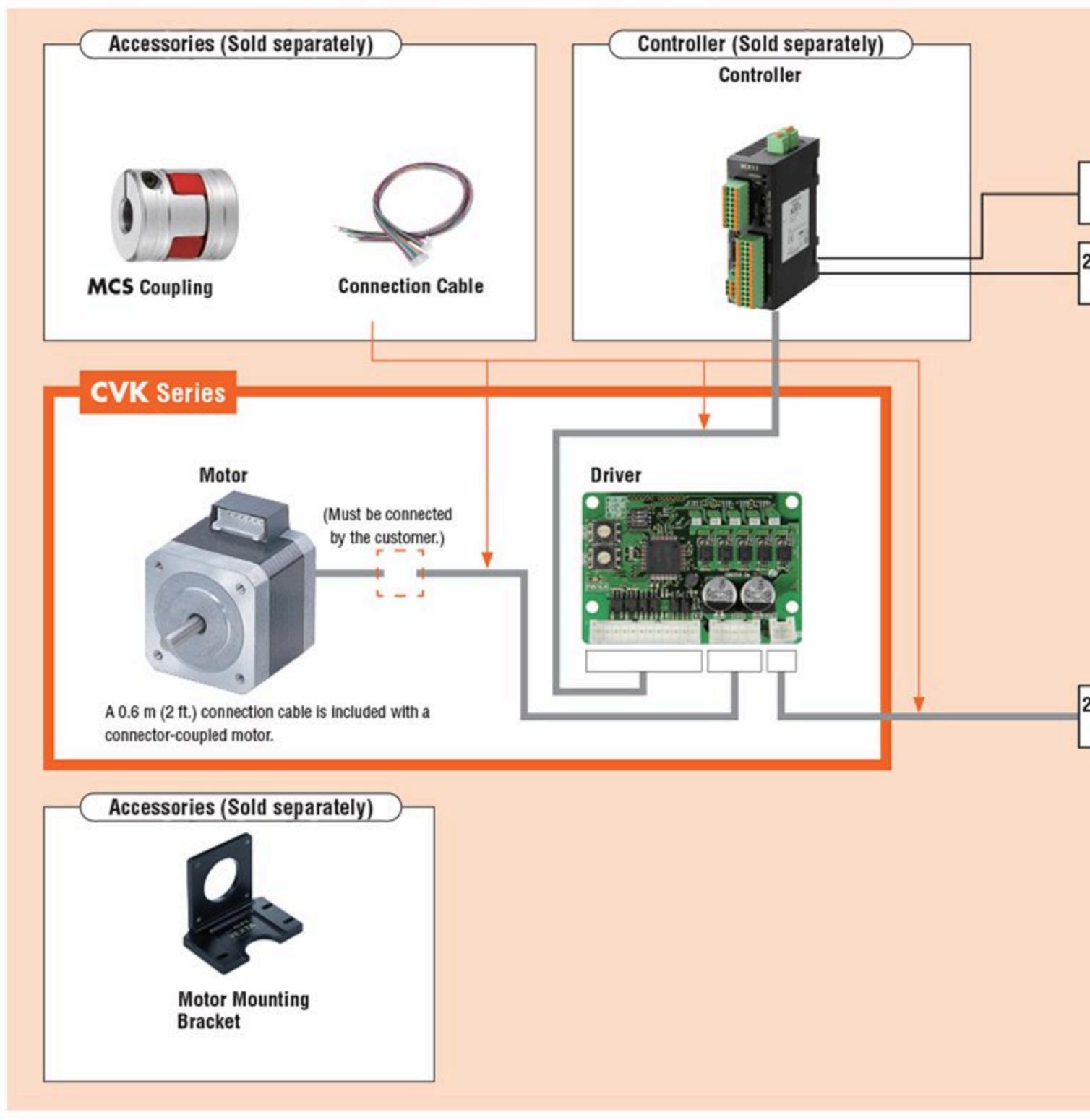
● If noise generated by the motor cable or power supply cable causes a problem with the specific wiring or layout, shield the cable or use ferrite cores.

System

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System Configuration

An example of a system configuration with the **SCX11** controller shown below.



¹ Quoted Ship Date for orders placed before 12:00 pm PST. Quantities may affect Shipping Date.

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