



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

Item # CRD514-KP, New Pentagon (Bipolar) Microstep Driver with Built-in Controller (Stored Program) (24 VDC)



The CRD driver with controller built is a lightweight microstepping integrated controller driver designed to be used with a variety of 5 phase motors from Oriental Motor.

- Controller features 485 communications for easy programing and multi-drop capability
- USB to RS-485 converter not included. See Downloads for suggested converters.



Web Price

\$357.00

[Specifications](#) | [Controller Specifications](#) | [Dimensions](#) | [System](#)

Specifications

Product Line	VEXTA ®
Driver Type	5-Phase, Built-in Controller (Stored Program)
Power Supply	24 VDC
Current	1.4 A
Excitation Mode	Microstep
RoHS Compliant	These products do not contain substances that exceed the regulation values in the RoHS Directive.
Safety Standards	CE

Controller Specifications

Number of Sequences	64 maximum
Input Method	ASCII commands via RS-485
Frequency	1 to 500,000 pps (1 step increments)
Linked Motion	4 linked motions, maximum
Communication Method	In conformance with EIA-485
Transmission Rate	Selectable from 9600, 19200, 38400, 57600, 115200 bps
Number of Multi-Dropped Devices	16

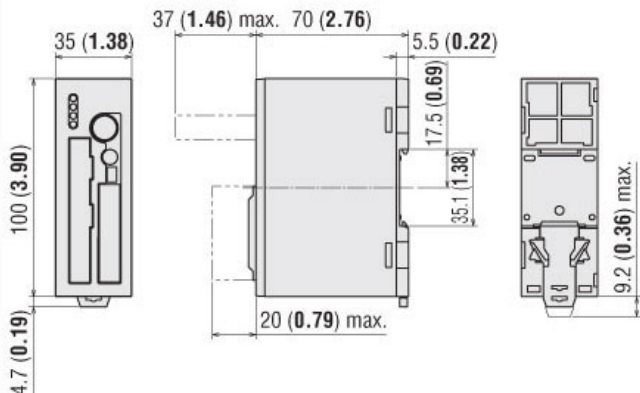
Dimensions

Driver

CRD503-KP, CRD507-KP, CRD507H-KP, CRD514-KP
CRD503-KD, CRD507-KD, CRD507H-KD, CRD514-KD

Mass: 0.2 kg (0.44 lb.)

DXF B547



● Connector Housing and Contact (Included)

Power Input Terminal (CN1)

Connector: MC1,5/3-STF-3,5 (PHOENIX CONTACT)

Connection Cable for I/O Connector (CN2):

Connector: FX2B-40SA-1.27R (HIROSE ELECTRIC)

Connection Cable for Motor (CN4):

Connector Housing: 51103-0500 (MOLEX)

Contact: 50351-8100 (MOLEX)

Applicable Crimp Tool: 57295-5000 (MOLEX)

Connection Cable for Encoder (CN5)*

Connector Housing: 51103-0900 (MOLEX)

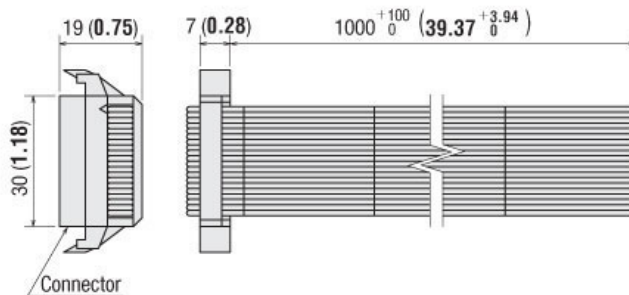
Contact: 50351-8000 (MOLEX)

Applicable Crimp Tool: 57295-5000 (MOLEX)

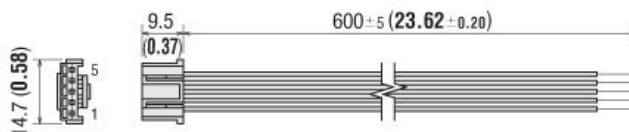
*Included with encoder motor only

● When you purchase only drivers for maintenance etc., it comes with power input terminal (CN1), connection cable for I/O connector (CN2) and connection cable for motor (CN4).

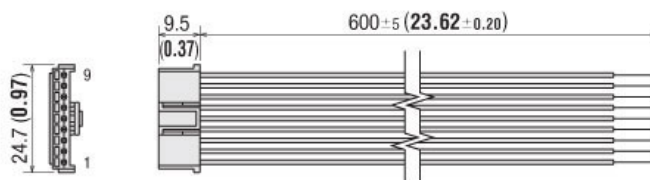
◇ Connection Cable for I/O Connector (CN2)



◇ Connection Cable for Motor (CN4)



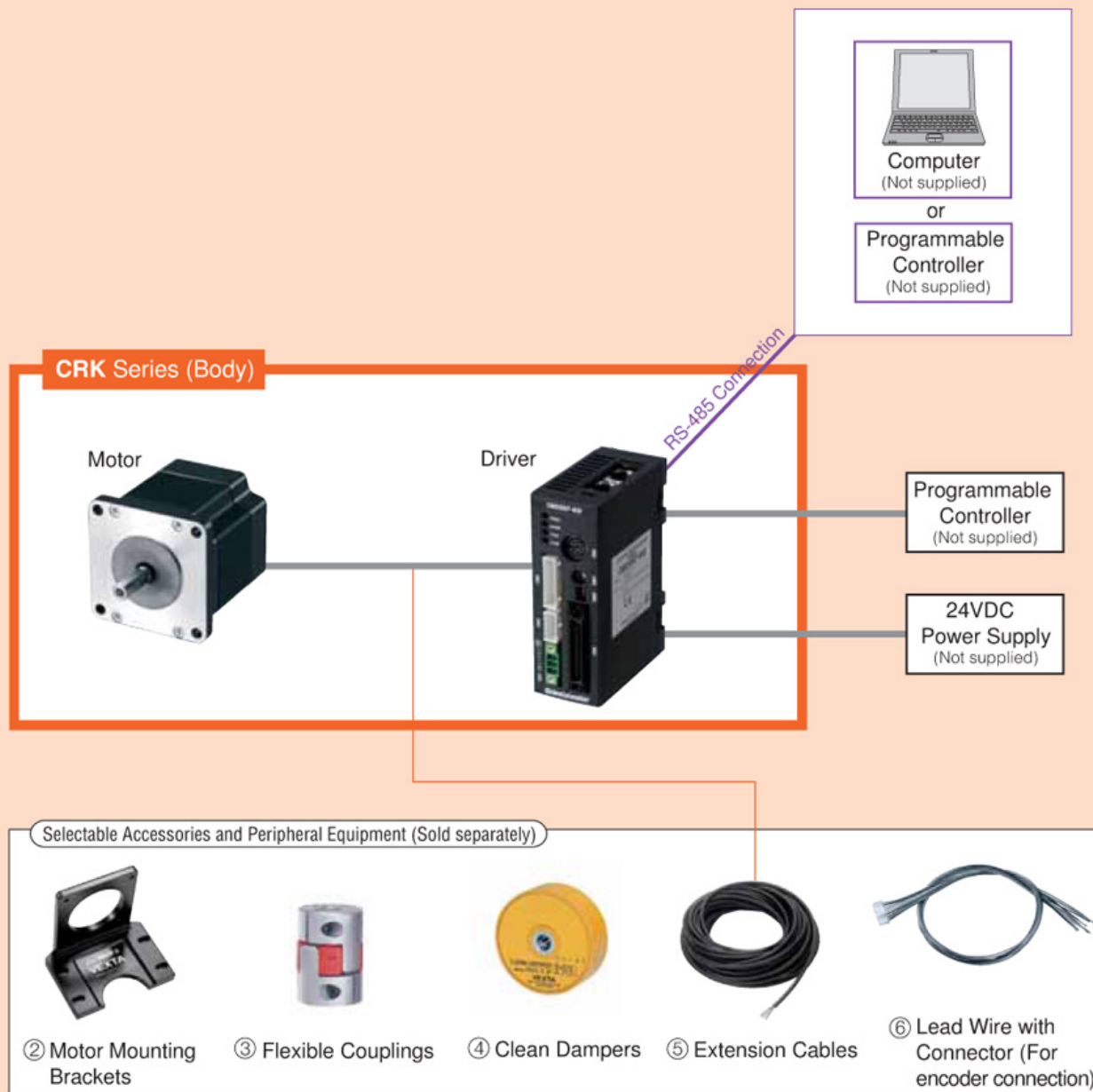
◇ Connection Cable for Encoder (CN5)



System Configuration

● For I/O Control

● For RS-485 Connection



No.	Product Name	Overview
②	Motor Mounting Brackets	Dedicated mounting bracket for the motor.
③	Flexible Couplings	Coupling that connects the motor shaft to the driven shaft.
④	Clean Dampers	Dedicated damper for suppressing stepping motor vibration.
⑤	Extension Cables	Cable for extending the wiring distance between the motor and driver (5 m, 10 m).
⑥	Lead Wire with Connector (For encoder connection)	Lead wire with Connector. Cable to connect the encoder with the driver (0.6 m).

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