



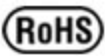
ORIENTAL MOTOR U.S.A. Corp.  
570 Alaska Avenue  
Torrance, CA 90503  
1-800-GO-VEXTA (468-3982)

Item # CRD507-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

\$432.00

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

Specifications	
Lead Time <sup>1</sup>	Contact your local sales office. This Item cannot be cancelled or returned.
Product Line	VEXTA®
Driver Type	5-Phase, Built-in Controller (Stored Program)
Power Supply	24 VDC
Current	0.75 A
Excitation Mode	Microstep
RoHS Compliant	These products do not contain substances that exceed the regulation values in the RoHS Directive.
California Proposition 65	<p>⚠ <b>CA WARNING</b></p> <p>Cancer risk from exposure to Nickel. See <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a></p> <p>Risk of reproductive harm from exposure to Di-n-hexyl phthalate (DnHP). See <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a></p>

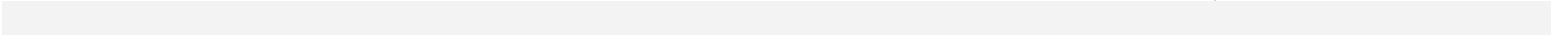


Risk of cancer and reproductive harm from exposure to Di(2-ethylhexyl phthalate (DEHP). See [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) See "?" or copy/paste [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) in your browser.

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

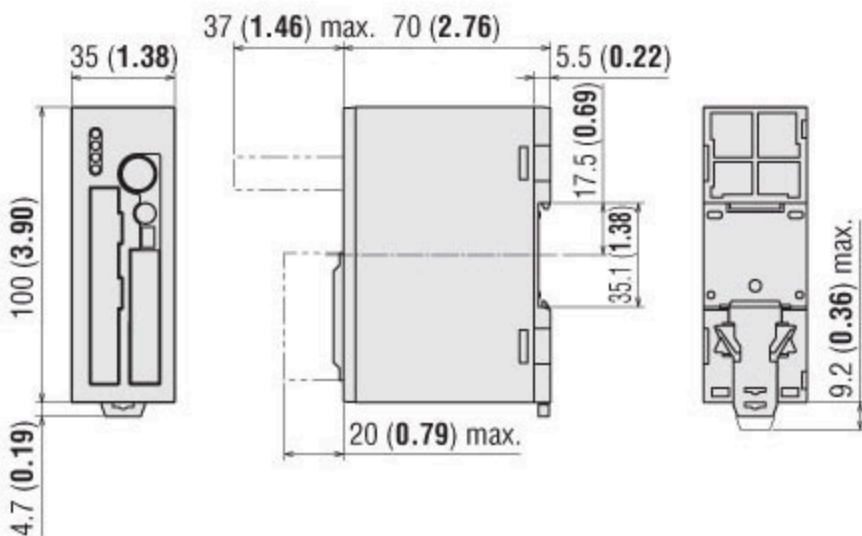


## ● Driver

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)

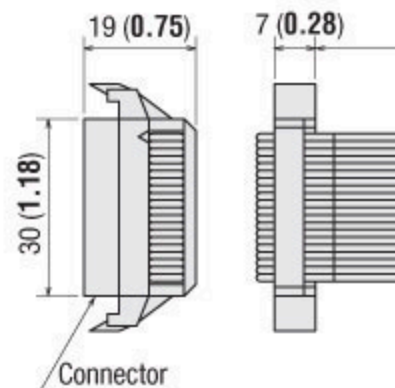
Contact: 50351-8000 (MOLEX)

Applicable Crimp Tool: 57295-5000 (MOLEX)

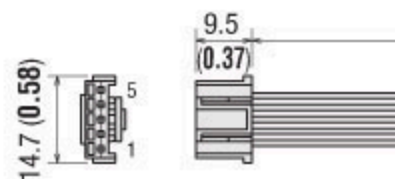
\*Included with encoder motor only

● 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).

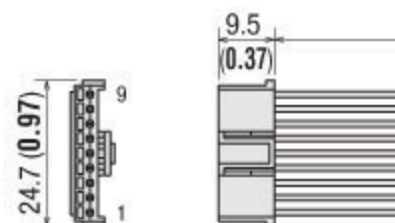
### ◇ Connection Cable for



### ◇ Connection Cable for



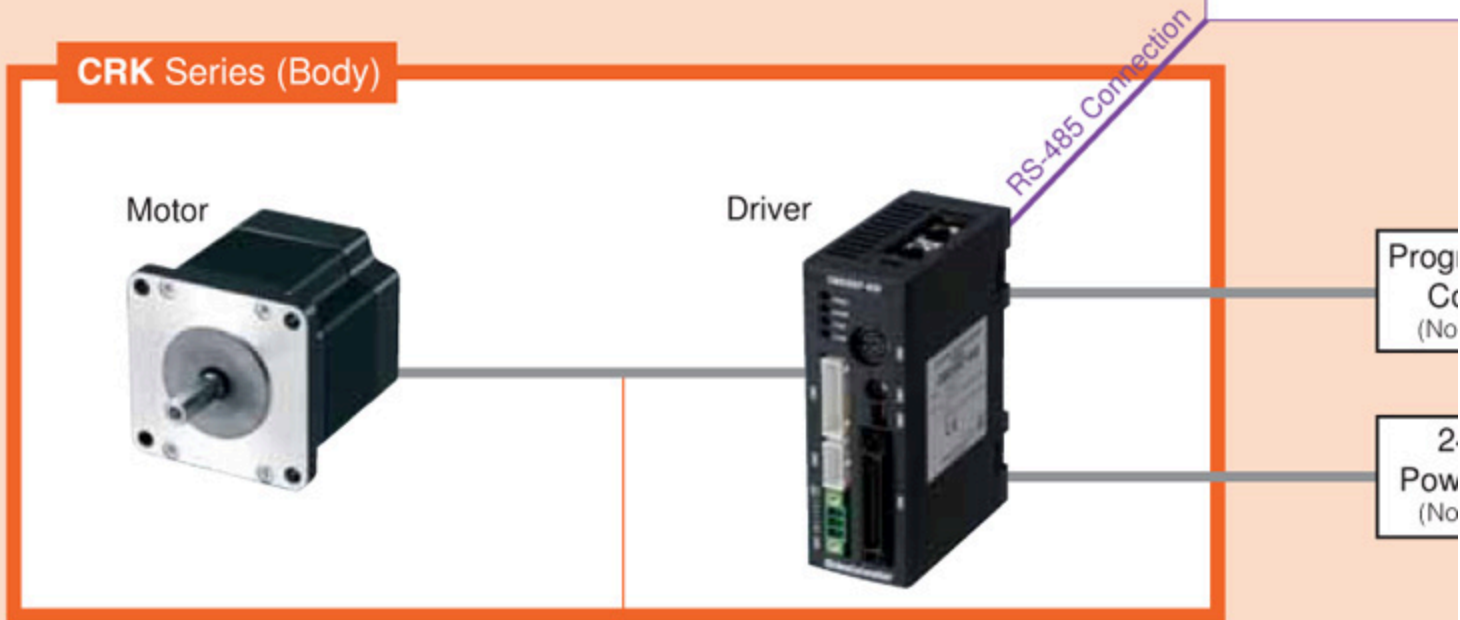
### ◇ Connection Cable for



# System Configuration

● For I/O Control

● For RS-485 C



## Selectable Accessories and Peripheral Equipment (Sold separately)



② Motor Mounting Brackets



③ Flexible Couplings



④ Clean Dampers



⑤ Extension Cables



⑥ Leads and Connectors

No.	Product Name	Overview
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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).

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

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