

News

Product News

Information

Product News

SANYO DENKI Develops 4-Axis Integrated Driver for Closed Loop Stepping Systems Enables space saving, wire saving, and takt time reduction

September 8, 2015

SANYO DENKI CO., LTD has expanded its lineup of SANMOTION Model No.PB closed loop stepping systems by adding a DC input, 4-axis integrated driver.



Features

1. Space Saving and Wire Saving

This driver can control up to four stepping motors and requires less than half the installation space of four conventional drivers.*1 Also, only one power supply and I/O signal cable are necessary, reducing the amount of wiring.

2. Takt Time Reduction

In addition to the conventional closed loop control that eliminates step-out--a shortcoming of stepping motors--the new model includes a mode that also eliminates delays in position commands.*2 Without any delays in position commands, device takt time is reduced.

3. Flexible Resolution Settings

Position command resolution can be set between 200 P/R and 51,200 P/R, enabling operation at the suitable resolution required for the device.

4. Easy Analysis of Settings and Operating Status

Setup software downloaded from our homepage can be used to easily adjust control parameters, execute test runs, and monitor operation status from a PC.

*1: Our conventional product model no. PB3D003M200

*2: Deviation-free closed loop control

Driver Specifications

Driver model no.	PB4D003P340
Interface	Pulse train input
Input source	Main power supply: 24 / 48 VDC ±10%, Control power supply: 24 VDC ±10%
External dimensions	W60 mm × H160 mm × D95 mm
Mass	0.7 kg
Resolution (P/R)	200, 400, 800, 1000, 1600, 2000, 3200, 5000, 6400, 10000, 12800, 20000, 25000, 25600, 50000, 51200 Electronic gear compatible
Selection functions	Control mode, input pulse type, motor select, step angle, current settings (Set with SANMOTION MOTOR Setup Software)
Protection functions	Overload stop, initialization error (power line disconnection), power voltage error, regeneration voltage error, overheat protection, overcurrent protection, encoder disconnection, overspeed, excessive position deviation, CPU error, nonvolatile memory error
LED indication	Power display, status display, alarm display

Motor Size

Motor size	28 mm sq., 42 mm sq., 60 mm sq.
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*Spur gear, low-backlash gear, harmonic gear, and brakes are available as options.

Applications

Semiconductor manufacturing equipment, food machinery, and general industrial machinery

Release Date

October 23, 2015

Price

Open

*The information stated in this release is current as of September 8, 2015.

“SANMOTION” is a trademark of SANYO DENKI CO.,LTD.

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