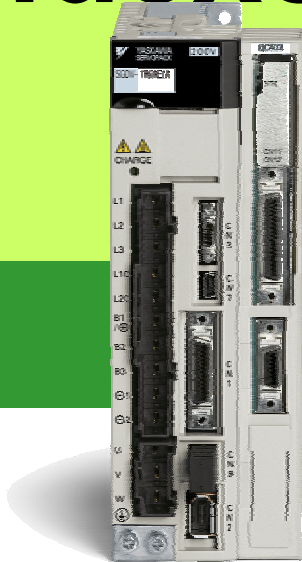


Sigma-5 Indexer



The Sigma-5 series servo drives with Indexer Module provide a high-level positioning without using a motion controller. With a PLC or a PC as the host controller, an unbelievably high level of performance can be achieved.

Simple:

- The configuration tool SigmaWin+ provides a wizard that will interact with you in a dialog format to help you setup and change the settings for your application.
- Table editing (Program table, Zone table, and JOG speed table) and parameter editing for ease of use.
- Status monitoring and a trace display enable best diagnosis.

Smart

- The use of program tables require no special programming language knowledge.
- Up to 256 positioning points can be programmed.
- A wide range of functions such as external positioning, JOG speed, homing, and programmable signal outputs are available.
- 19 digital inputs and 16 digital outputs are standard.
- Easy ASCII commands via RS 422/485

Speedy

- Realizes high-speed, high-accuracy positioning due to combination with the high-performance Sigma-5 series.
- Intelligent autotuning and innovative anti vibration suppression for quick setup.

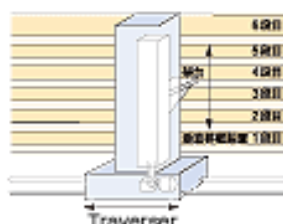
Application Examples

Point-to-point positioning



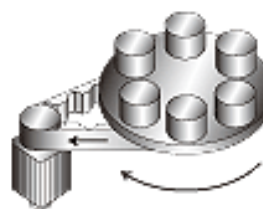
X-Y Table

Fixed point positioning



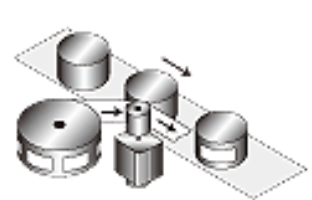
Unmanned Warehouses

Station positioning (Indexing)



Rotary Table

Feeding



Positioning Conveyor

Basic Specification

External Dimensions		Option module type, 200 V/200 W: 160 × 140 × 60	
Power	Power Supply Method	Supplied from the control power supply of the SGD V SERVOPACK.	
Operating Conditions	Surrounding Air/Storage Temperature	0°C to +55°C/-20°C to +85°C	
	Ambient/Storage Humidity	90% RH or less (with no freezing or no condensation)	
	Vibration/Shock Resistance	4.9 m/s ² / 19.6 m/s ²	
	Protection Class/Pollution Degree	Protection class: IP10, Pollution degree: 2 An environment that satisfies the following conditions. • Free of corrosive or explosive gases • Free of exposure to water, oil, or chemicals • Free of dust, salts, or iron dust	
	Others	Free of static electricity, strong electromagnetic fields, magnetic fields or exposure to radioactivity	
	Altitude	1,000 m or less	
Applicable Standards*		UL508C EN50178, EN55011/A2 Group1 Class A, EN61000-6-2, EN61800-3, EN61800-5-1, EN954-1, IEC61508-1 to 4	
RoHS Directive		Compliant	
Control Method	Program Table Method	Program table positioning in which steps are executed sequentially by commands given through contact input or serial communications Positioning in which station numbers are specified by commands given through contact input or serial communications	
		Max. Number of Steps	256
		Max. Number of Tables	256
	Max. Number of Stations	256	
	Serial Communications Method	Serial command by 1-channel ASCII code or MEMOBUS Communications specifications: RS-422/485 (50 m max.), RS-232C (3 m max.) Connection topology: Multi-drop connection (16 axes max.) Baud rate: 9600, 19200, 38400 bps	
Other Functions		Registration (positioning by external signals), homing	
Display Function	LED	Lit during parameter setting, monitoring, executing utility functions, etc.	
Servo Performance		Response frequency: 1.6 kHz Various adjustment functions provided Refer to the PO for command option attachable type SERVOPACKs.	

*Applicable when the INDEXER module is attached to the command option attachable type SERVOPACKs.

Compatible with Sigma-5 series amplifiers:
Order Number Indexer:
Order Number Mounting Kit:

SGDV - □ □ □ □ E □ A
SGDV-OCA03A
SGDV-OZA01A



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