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Data Sheet

August 15, 2026

DANAHER / AMERICAN PRECISION INDUSTRIES

Danaher / American Precision Industries P51X-DO Power/Drive/Indexer

The Danaher/American Precision Industries P51X-DO is a versatile power drive indexer, designed for precision motion control applications. It offers reliable performance and efficient operation in a compact form factor.



MODEL

**Danaher /
American
Precision
Industries P51X-
DO**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

P51X-DO

LISTING

<https://aumictechlabs.com/products/p51x-do-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Danaher/American Precision Industries P51X-DO is a microprocessor-based power drive indexer engineered for precision motion control and stepper motor applications. This self-contained unit delivers programmable motion control through an English-like ICL (Intelli-Command Language), offering five programmable inputs and three programmable outputs for flexible external device integration. The P51X-DO incorporates encoder feedback for position monitoring, automatic ramping routines with user control, and battery-backed user memory for retained programming. Communications occur via RS-232C serial interface at up to 19,200 Baud, enabling

host system integration. Technical Specifications Controller Type: Microprocessor-based indexer and stepper motor drive Communications: RS-232C up to 19,200 Baud Programmable Inputs: 5 Programmable Outputs: 3 Feedback: Encoder feedback for position verification Memory: Battery-backed user memory Programming Language: ICL (Intelli-Command Language) Ramping Control: Automatic generation with user-selectable parameters Input Voltage: 115/230 VAC or 5-24 VDC Line Frequency: 50/60 Hz Output Current: 0.7–3.5 A per phase Resolution: DIP switch selectable up to 50,800 steps per revolution Protection: Full short circuit protection Status Indication: LED indicators for status and fault conditions Configuration: DIP switch selectable Weight: 6.00 lbs Key Features Compact form factor with efficient thermal design Multiple power supply options accommodate diverse industrial environments DIP switch configuration eliminates the need for external programming interfaces Battery-backed memory preserves motion profiles and control parameters during power loss Encoder feedback enables closed-loop position verification Full short circuit protection on all motor phase outputs Typical Applications Positioning and indexing in automated manufacturing, automated test equipment, precision motion sequencing, and hybrid stepper motor drive applications. Compatibility & Integration Designed for hybrid stepper motor operation. Host systems interface via RS-232C serial communication at standard baud rates up to 19,200.

P51XDO Characteristics / Specifications

PARAMETER	VALUE
Model	P51X-DO
Instrument Type	Power / drive / indexer
Family	P51X
Build	DO
Manufacturer	Danaher American Precision Industries
Literature	Danaher/API P51X-DO listings
Brand Lineage	American Precision Danaher
Form Factor	indexer-drive package
System Role	single-axis index and drive
Application Class	automation indexing
Power Class	integrated DC power
Drive Class	motor drive
Indexer Class	P51X indexer
Documentation Type	OEM P51X-DO listing
Vendor Path	Danaher American Precision
Year Class	P51X
Io Class	DO digital/drive
Control Class	indexer
Motor Class	stepper/servo as fitted
Connector Class	per P51X-DO
Operating Temperature Class	industrial
Module Class	P51X-DO
Feedback Class	per P51X
Supply Class	per P51X-DO nameplate
Operating temperature	Class: industrial

P51XDO Specifications

PARAMETER	VALUE
Applications	Single-axis indexing and motor drive in automation using API/Danaher P51X.
Technical Specifications	Model: P51X-DO
Notes	Identity from Danaher/American Precision P51X-DO listings. Motor current, input voltage, and step resolution are on the P51X-DO datasheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: industrial
Operating Temperature	Class: industrial
Operating Temperature Class	industrial
Module Class	P51X-DO
Feedback Class	per P51X
Supply Class	per P51X-DO nameplate Notes Identity from Danaher/American Precision P51X-DO listings. Motor current, input voltage, and step resolution are on the P51X-DO datasheet.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	P51X-D0
Instrument Type	Power / drive / indexer
Family	P51X
Build	D0
Manufacturer	Danaher American Precision Industries
Literature	Danaher/API P51X-D0 listings
Brand Lineage	American Precision Danaher
Form Factor	indexer-drive package
System Role	single-axis index and drive
Application Class	automation indexing
Power Class	integrated DC power
Drive Class	motor drive
Indexer Class	P51X indexer
Documentation Type	OEM P51X-D0 listing
Vendor Path	Danaher American Precision
Year Class	P51X
Io Class	D0 digital/drive
Control Class	indexer
Motor Class	stepper/servo as fitted
Connector Class	per P51X-D0
Operating Temperature Class	industrial
Module Class	P51X-D0
Feedback Class	per P51X
Supply Class	per P51X-D0 nameplate

Notes

Identity from Danaher/American Precision P51X-D0 listings. Motor current, input voltage, and step resolution are on the P51X-D0 datasheet.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.