ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *Danaher Motion / IDC B8001* at our website: ***Click HERE***

Specifications

Power Input
90-240VAC, single phase, 50/60 Hz, 1150VA @ 115 VAC max, 2300VA @ 230 VAC max

Motor Output
Current Capability: 5A continuous, 10A peak
Protection: Protected against phase-to-phase shorts and shorts to ground. Fused.
Power Dump Capacity: See page H-40 for details.

Encoder Input
Type: Differential quadrature incremental encoder, with or without index
Maximum Rate: 2MHz (post-quadrature)
Power: +5V @ 200 mA power encoder

Diagnostic Output
Format: 0 to 5V analog signal (centered at 2.5V)
Variables: Configurable as actual, and commanded velocity; position error; velocity error; actual, and commanded torque – programmable scaling

Serial Interface
Data Format: RS-232C, half-duplex, no parity, 8 data bits, one stop bit, no handshaking, 9600 baud (fixed)

Commutation
Vector Error: 0.1% or less
Calculation Rate: 10 kHz

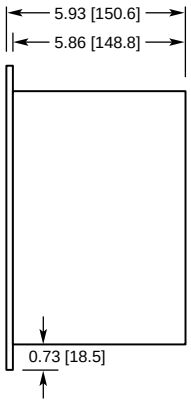
Environmental
Temperature: Thermal shutdown occurs if heatsink temperature exceeds 55°C (131°F). Heatsink temperature is a function of motor current, motor regen, and ambient temperature.
Humidity: 0% to 90% non-condensing

Analog Command Input (Velocity or Torque)
Format: ±10V differntial signals
Impedance: Greater than 10K
Scale: Digitally programmable via configuration ports in velocity mode. Fixed at 10% of output capability per volt in torque mode.

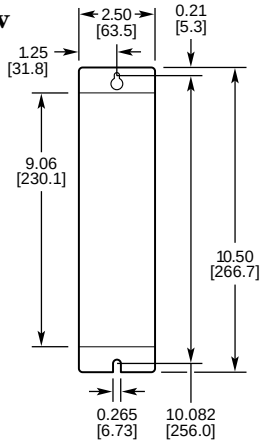
Step & Direction Input
Format: Opto-coupler diodes with 330 series resistance, intended to be driven by a 5V digital signal pulled up to +5V
Max. Rate: 1.25MHz
Resolution: Any even number from 200 to 65,534 steps per revolution.

Mounting Dimensions in [mm]
B8001

Side View



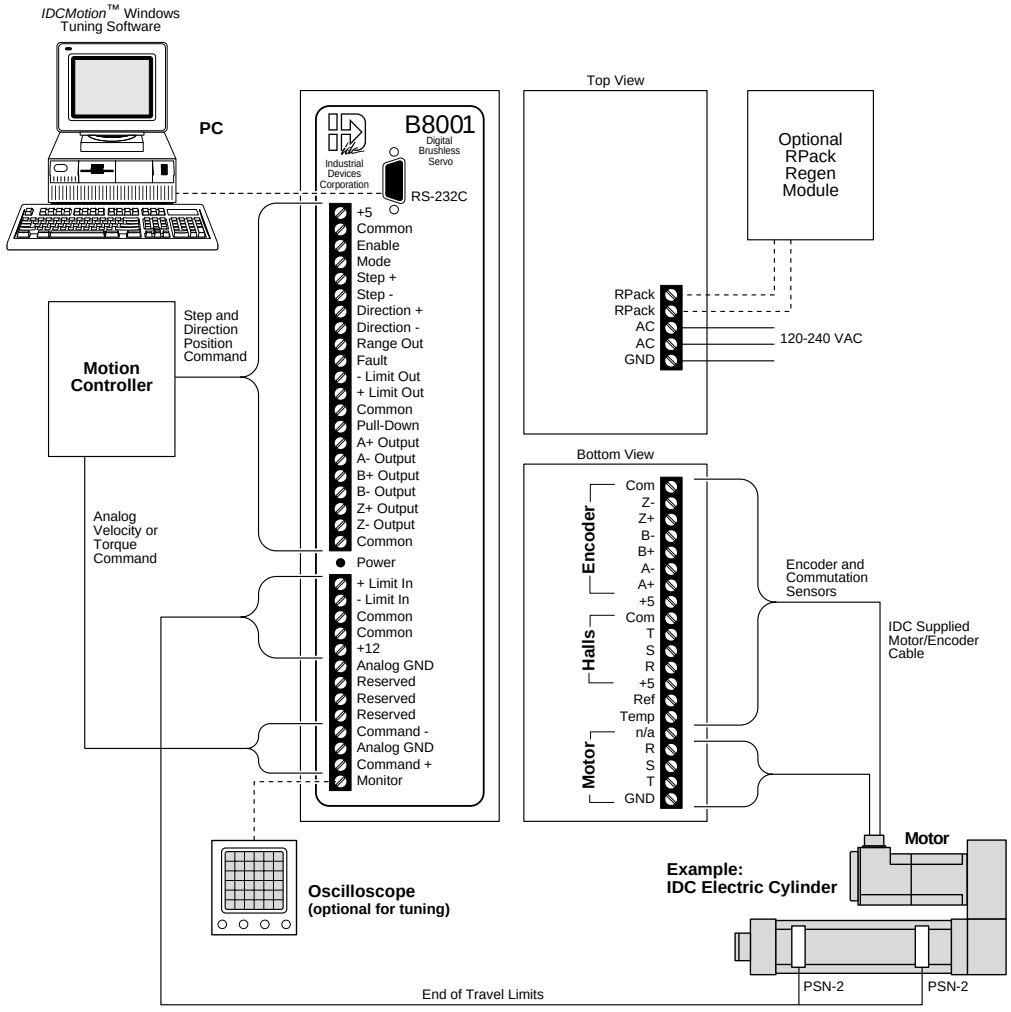
Front View



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Operation

System Configuration



How To Order

Model	Description	Options	Description
	—		
B8001	1 Axis Servo Drive	-LMTR	For operation of a B8001 with an IDC Linear Motor
Accessories		-FK1	115 VAC Fankit (p. H-39)
RPACK-1, 115 VAC	External regenerative power dissipation module. Only for exceptionally large inertial and/or vertical loads with ballscrew actuators. See page H-40.	-FK2	230 VAC Fan kit (p. H-39)
RPACK-2, 230 VAC			
Limit Switches, NPN	Mounted on IDC mechanics to provide end of travel limit sensing.		

To confirm your selection, review the checklist on page H-8.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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