



## Power Input

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

## Motor Output

Current Capability  
Protection

5A continuous, 10A peak  
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 differential 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

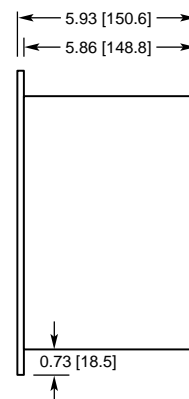
1.25MHz

Resolution

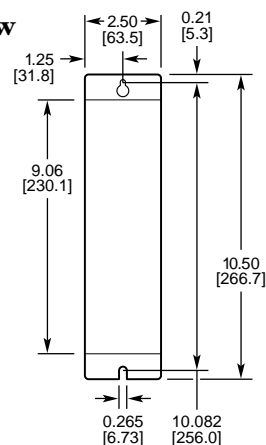
Any even number from 200 to 65,534 steps per revolution.

## Mounting Dimensions in [mm] B8001

Side View

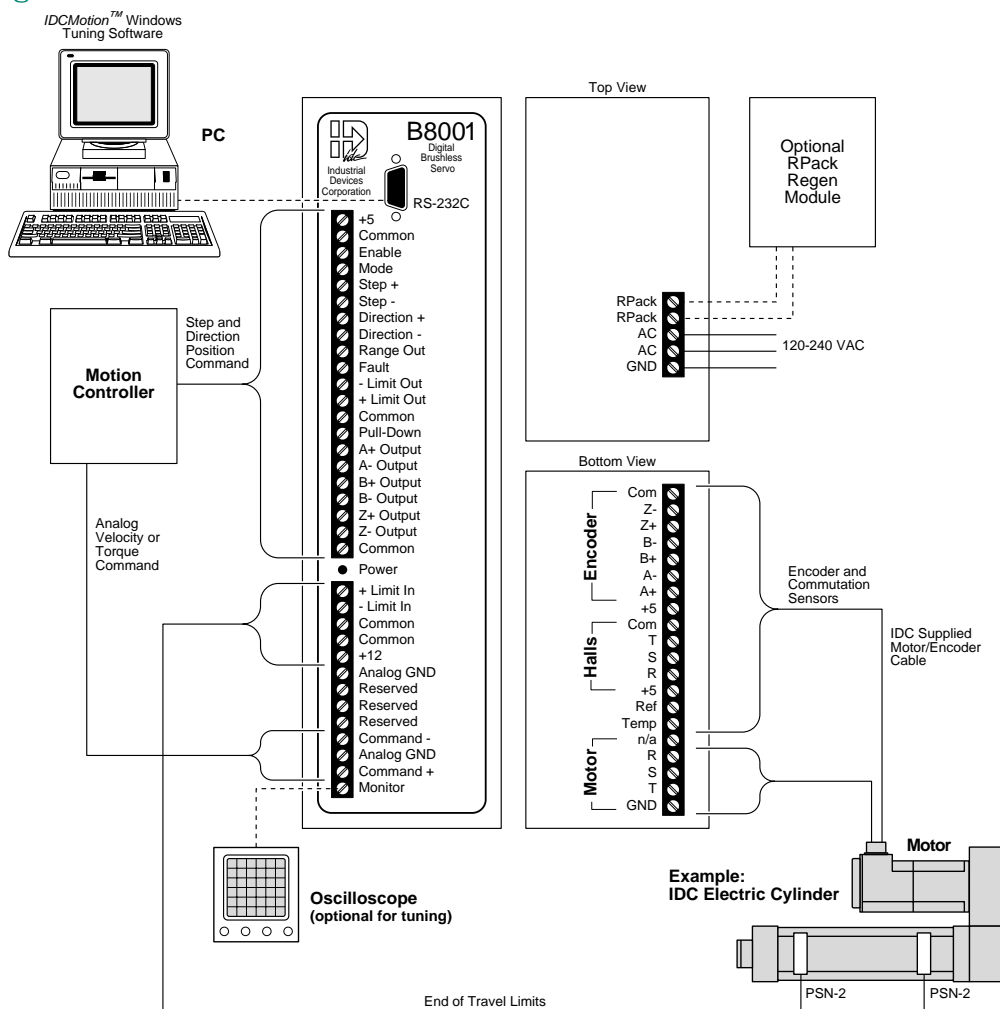


Front View



# 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
<b>Accessories</b>			
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.	-FK1	115 VAC Fan kit (p. H-39)
RPACK-2, 230 VAC		-FK2	230 VAC Fan kit (p. H-39)
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.