FEATURES
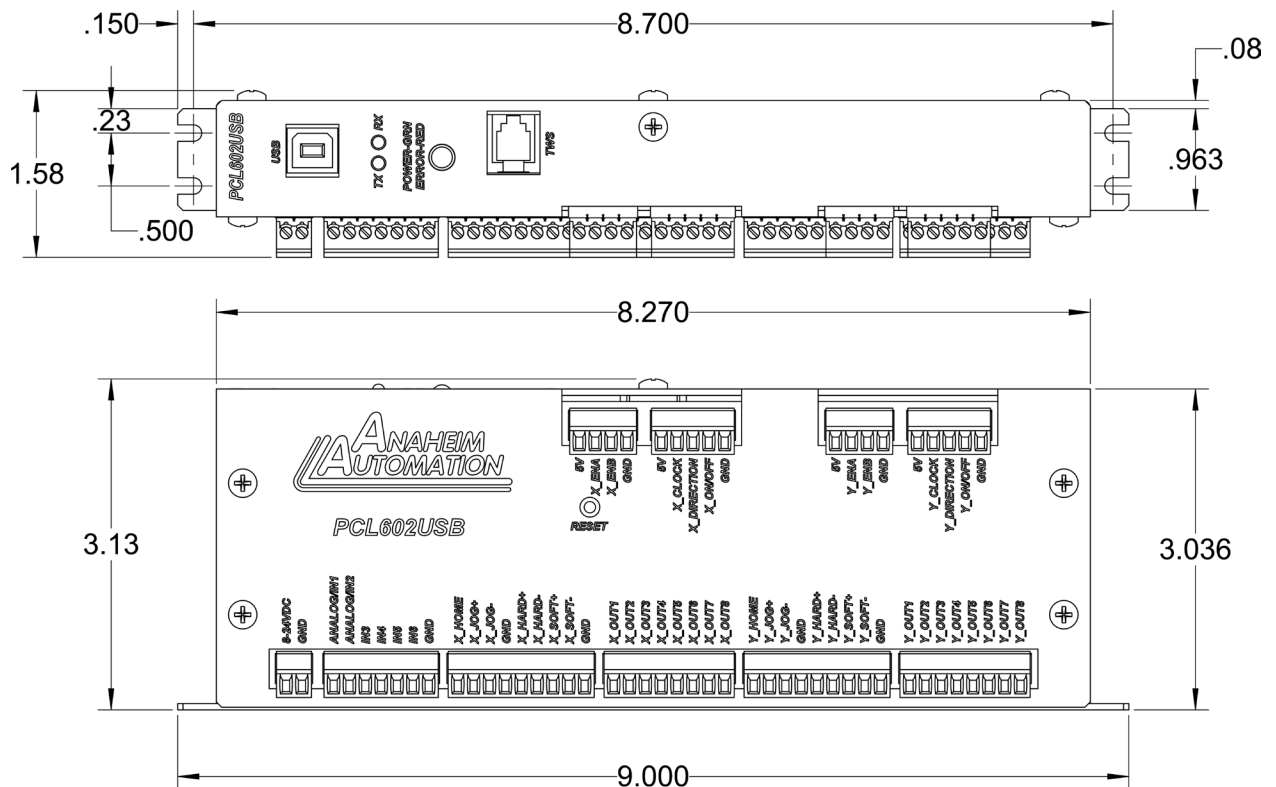
- *Cost-Effective Independent Dual-Axis Control*
- *Easy to Use Windows Software Included*
- *Stored Program Capabilities*
- *24V Compatible Inputs*
- *0-5V Analog Input for Speed or Distance*
- *16 programmable outputs*
- *Encoder Feedback for each axis*
- *USB interface*
- *Compact and Rugged Construction*
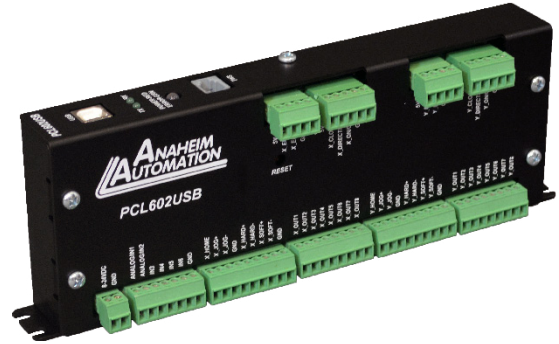
DIMENSIONS

DESCRIPTION

The PCL602USB is a dual-axis step motor controller containing 2 Kbytes of nonvolatile stored programming space and quadrature encoder feedback. This device provides flexible and independent control of two stepper motors from computers or any machine controller with a USB port. More specifically, the PCL602USB presents an easy way to implement motion systems requiring two axes and the precision that can be achieved on each axis through the use of encoder feedback.

The user can program the PCL602USB and then have it autostart the program on power up. This makes the device capable of standalone operation as an embedded machine controller. The easy to use Windows software, SMC62WIN, can be used to directly control motion and to program the PCL602USB. Adittionally, this device has the ability to perform real time functions. "Direct Mode" is used to directly control motion for real time movements requested via serial communication.

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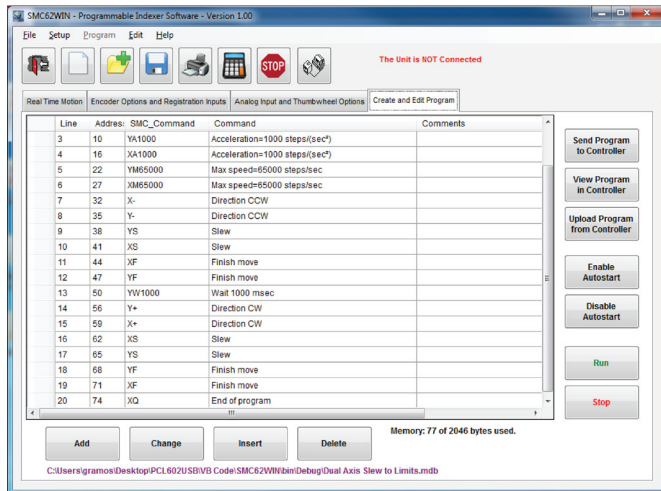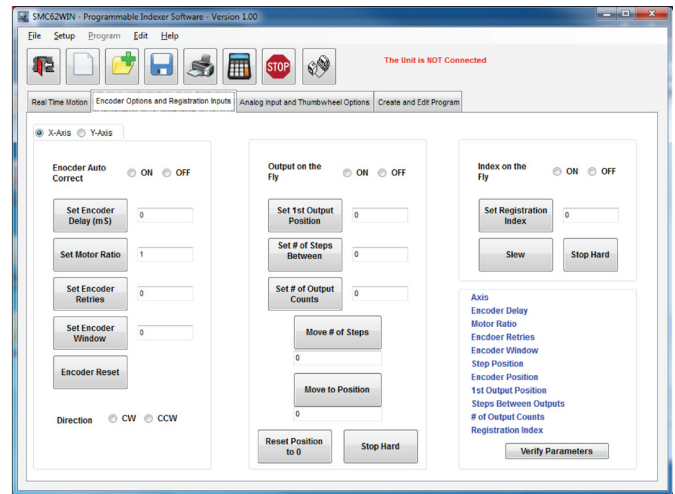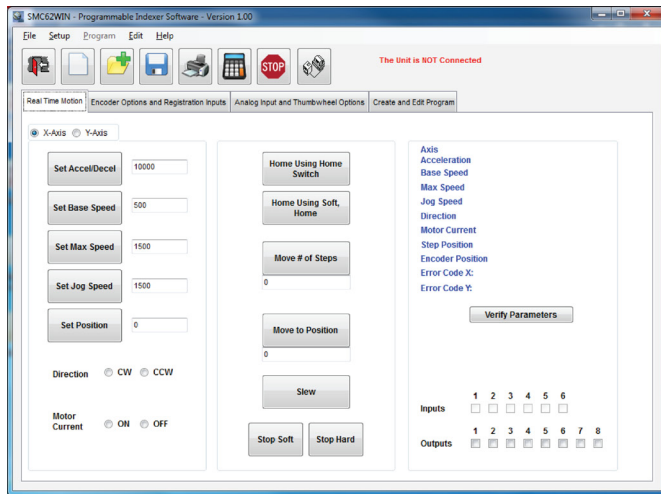
Power Requirements:	8-24VDC, 50/60Hz (0.6W Peak Power)
Nonvolatile Memory:	2KB of Stored Programming Space
Baud Rate:	38,400 Baud, Fixed
Data Format:	Half Duplex, 1 Start Bit, 8 Data Bits, No Parity, 1 Stop Bit
Communication Interface:	Universal Serial Bus
Encoder Feedback:	Quadrature, CHA, CHB, 5VDC Signal Compatibility
Controller Outputs:	16 Programmable Outputs, Open Drain Type, 40V, 100mA +5VDC Output, 50mA
Controller Inputs:	6 Programmable Inputs Logic 0: 0 - 0.8VDC Logic 1: 3.5 - 24VDC Analog Input: 0 - 5VDC
Pulse Output Range:	1 - 50kHz, 10µs Negative Going Pulse Width

Model #	Description
PSAM24V2.7A	Power Supply for PCL602USB (24V @ 2.7A).
MBC25081TB	Stepper Motor Driver with DC input and 2.5A output current
MBC12101	Stepper Motor Driver with DC input and 10A output current
TWS7	Seven decade thumbwheel switch for entering distance via external interface. (Accessory)
AAUSB-AB-6	USB cable, required to communicate to PC. 6ft long. (Accessory)