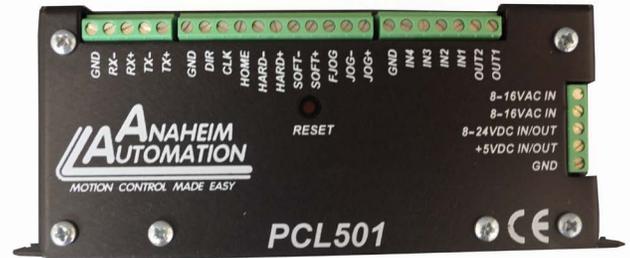


PCL501 - Programmable Controller



FEATURES

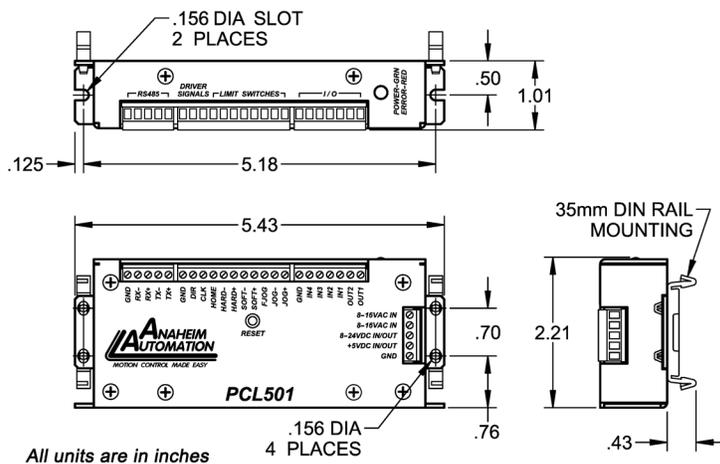
- **Cost-Effective Motion Control Solution**
- **RS485 Serial Communications**
- **Stored Program Capabilities**
- **Up to 32 Axis Can Be Networked**
- **Non-Volatile Stored Programming Memory**
- **Easy to Use Windows Software Included**
- **Capable of Real Time Motion**
- **Looping, Branching, Motion, I/O, and More**
- **Hard, Soft, and Home Limit Switch Inputs**



DESCRIPTION

The PCL501 programmable controller is an economical single axis step motor controller containing 2Kbytes of non-volatile stored programming memory. It provides flexible, independent control of step motors with clock and direction outputs from computers or machine controllers with a serial port. It is also capable of stand-alone operation making it an embedded machine controller. The easy to use Windows software, SMC50WIN, can be used to directly control motion and program the controller. The PCL501 programmable controller also has the ability for real time functions. A "Direct Mode" is used to directly control motion for real time movements through serial communication. The PCL501 programmable controller has 20 commands which are easy-to-remember for direct movement of a stepper motor. The controller communicates via RS485 communication. Up to 32 units can be networked from one port on a PC or PLC (Programmable Logic Controller). A RS232 version (the PCL501PC) is available for single unit communication. The PCL501 programmable controller has 2 programmable open drain outputs and 4 TTL compatible inputs. It can be powered with DC (5-24VDC) or AC (8-16VAC) voltages. It's compact size and mounting provisions make it simple to install.

DIMENSIONS



Parameters	Description
Power Requirements:	5VDC @ 50mA or 8VDC to 24VDC @ 25mA or 8VAC to 16VAC@25mA
Operating Temperature:	0 to 60°C
Pulse Output Range:	77 to 15000 pps
Inputs (TTL-CMOS):	Logic "0": 0 to 0.8VDC Logic "1": 3.5 to 5.0VDC
Baud Rate:	1200 to 115200 BAUD
Data Format:	Half-Duplex, 1 start bit, 8 data bits, no parity, 1 stop bit
Outputs (2 Programmable I/O):	Open Drain Type 40V, 75mA
Outputs(CLK,DIR):	Open Drain Type 40V, 75mA

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