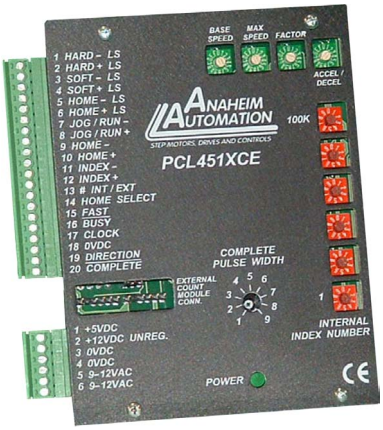
PCL451 - Manual Preset Indexer

FEATURES

- ***Internal Index Count Switches***
- ***Pulse Rates up to 14,792 Pulses per Second***
- ***CW and CCW Home, Hard and Soft Limit Inputs***
- ***Adjustable Motion "Complete" Output***
- ***Motion "Busy" Output***
- ***Clock Pulses and Step Direction Outputs***
- ***CW and CCW Index Inputs***
- ***CW and CCW Jog/Run and Fast Job Inputs***
- ***Two "Go to Home Position" Modes***
- ***TTL-MOS Compatible***

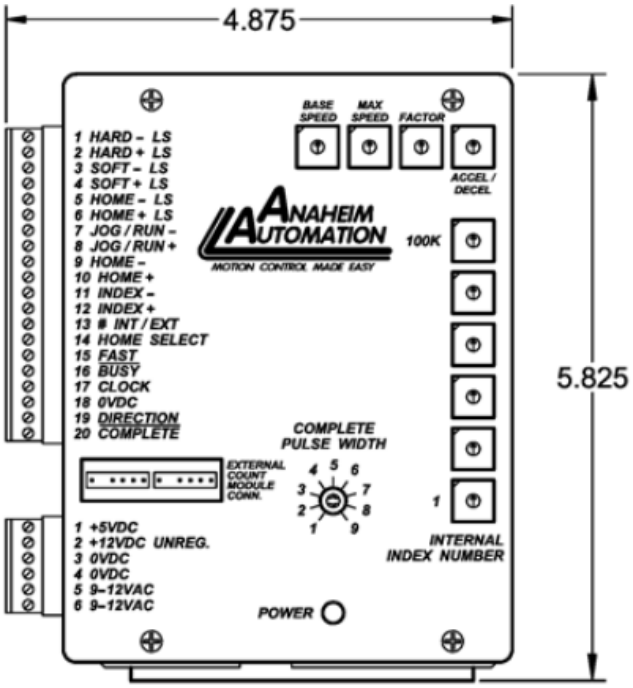
Index on the Fly

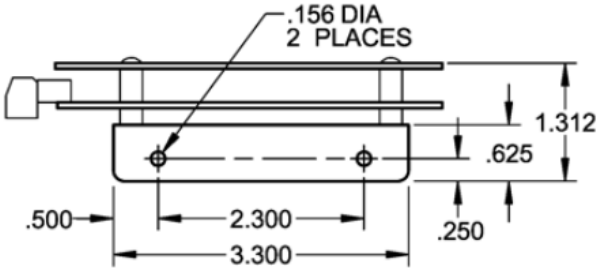


DESCRIPTION

The PCL451 contains a manual preset indexer board. Figure 1 shows the general configuration and layout of a preset indexer system. The thumbwheel switch is used to set the index (number of steps or move distance) and the manual switched and/or PLC are used to initiate indexing, homing or jogging. The manual preset indexer board utilizes the PI45 preset indexer integrated circuit (IC). Available functions include home, hard and soft limit inputs, two homing modes, jog/run, fast jog and switch selectable base speed, maximum speed, and acceleration/deceleration. This board includes the necessary buffering and other circuitry for the PI45 chip that makes indexing easy. The board can be operated manually or with a programmable logic controller (PLC) to index a set of pulses determined by the internal count switches or an external count module, such as the AA1760-5 or similar device.

SPECIFICATIONS





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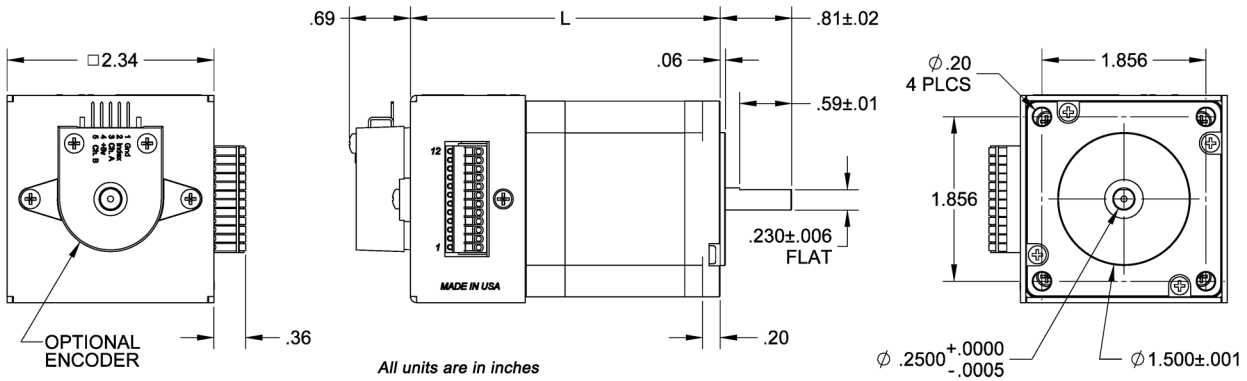
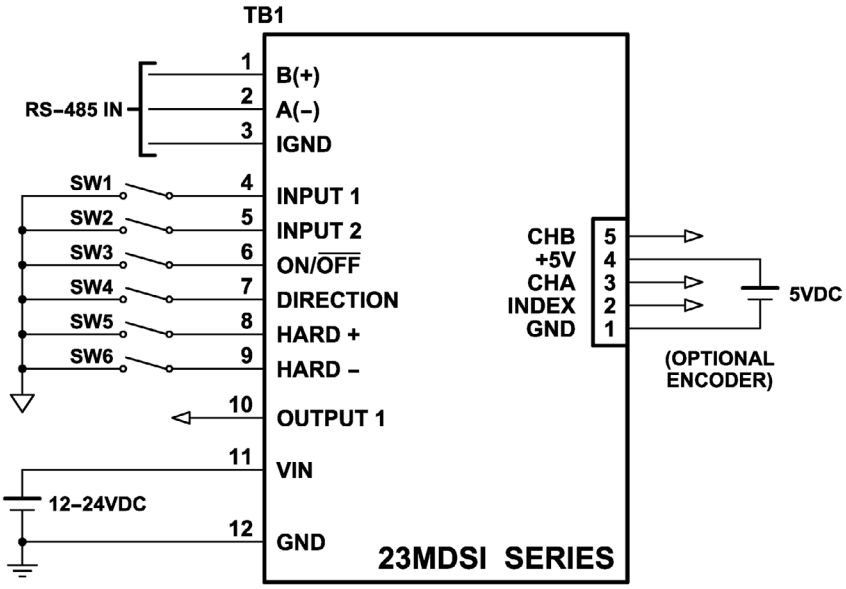
DIMENSIONS

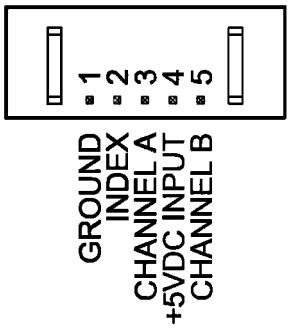


All units are in inches

WIRING DIAGRAM



TOP OF ENCODER FACING PLUG



SPECIFICATIONS

Power Requirements:	12-24VDC	Microstepping Res.	1600 steps/rev (Div-by 8)
Input Voltage (Inputs):	3.5 - 24VDC	Driver Type:	Bipolar Series
Step Angle Accuracy:	+/- 5% (Full Step, No Load)	Insulation Resistance:	100M Ohm Min, 500VDC
Resistance Accuracy:	+/-10%	Dielectric Strength:	500VDC for one minute
Inductance Accuracy:	+/-20%	Radial Play:	0.02” at 1.0 lbs
Temperature Rise:	80°C Max (2 Phases On)	End Play:	0.08” at 1.0 lbs
Ambient Temperature:	-20° to +50° C	Max Radial Force:	16.9 lbs (0.79” from flange)
Insulation Type:	Class B	Max Axial Force:	3.4 lbs-Force