

PD16NX Pump Driver Board For Solenoid Piston Pumps

DC In, Pulsed DC Out

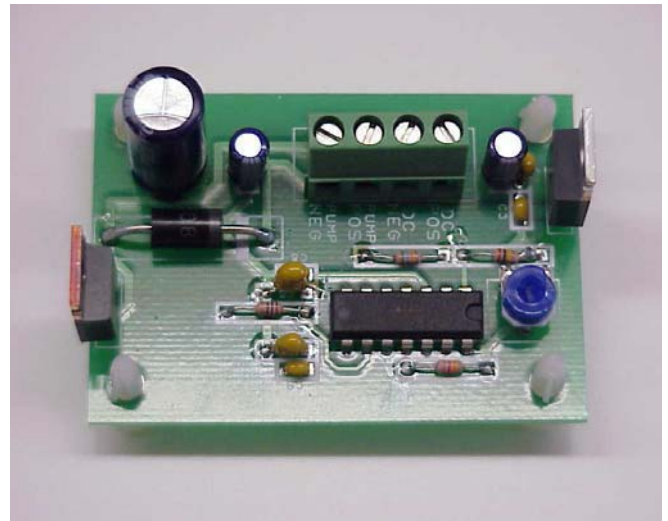
DESCRIPTION

Model PD16NX is a board level product intended for mounting in a customer provided enclosure. It is intended for use mainly with solenoid piston pumps, to drive the pumps with pulsed DC power.

The board accepts 9-35 VDC input and has a pulsed 9-35 VDC output.

The pulse length is fixed at a nominal 10ms and the dead time between pulses is adjustable via a potentiometer.

The default setting is a square wave at 35Hz. The circuit can drive pumps up to 35 volts.



PD16NX With Circuit Board Supports Installed
(Actual Size)

PUMP DRIVER SPECIFICATIONS

Input: 9 – 35 VDC

Output: 9 – 35 V pulsed output

Pulse length: fixed at 10 ms nominal

Current output: 3 A maximum

Frequency: adjustable via single turn potentiometer,
50Hz maximum

PC Board:

Material: FR4

Surface Finish: HASL, Immersion White Tin

Solder Mask: LPI Green

Connections: 4 position 5 mm PCB connector terminal
block

Mounting: Four through holes, 0.156" (4 mm)
diameter

Accessories: Units supplied with four screw mount
Nylon circuit board supports. These mount to
customer enclosure/chassis with self-tapping no. 6
screws (not supplied)

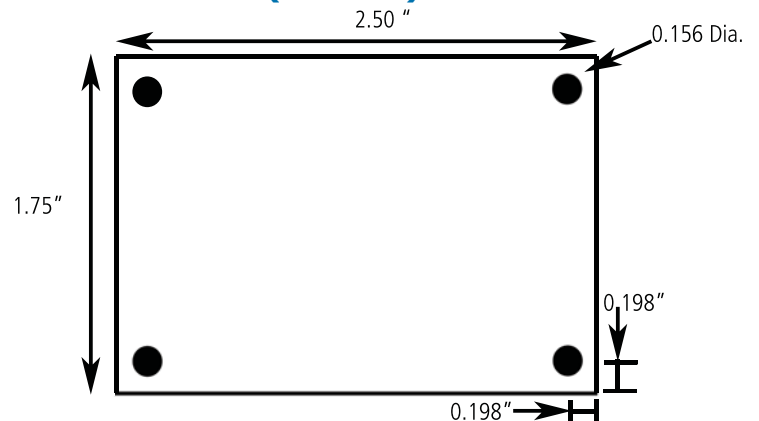
Dimensions: 2.50"W x 1.75" D x 0.91" Max. H (not
including board supports)

Packaging: 3" x 5" ESD shielding bag

FEATURES

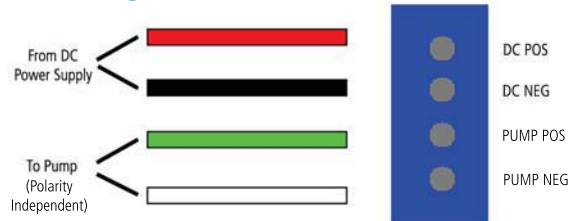
- **DRIVE SOLENOID PUMPS WITH PULSED DC POWER**
- **PUMPS RUN QUIETLY RELATIVE TO DRIVING WITH AC POWER**
- **PUMPS RUN COOLER THAN AC DRIVEN PUMPS**
- **PUMP FLOW DELIVERY ADJUSTABLE BY CHANGING VOLTAGE OR FREQUENCY**

DIMENSIONS (INCHES)



Application Note: To maximize the life of your piston pump it is recommended that supply voltage not exceed 40% of rated pump voltage (16.8 volts for a 12 volt rated pump) and frequency be kept below 40 Hz.

WIRING



ORDERING INFORMATION : MODEL NUMBER - PD16NX

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