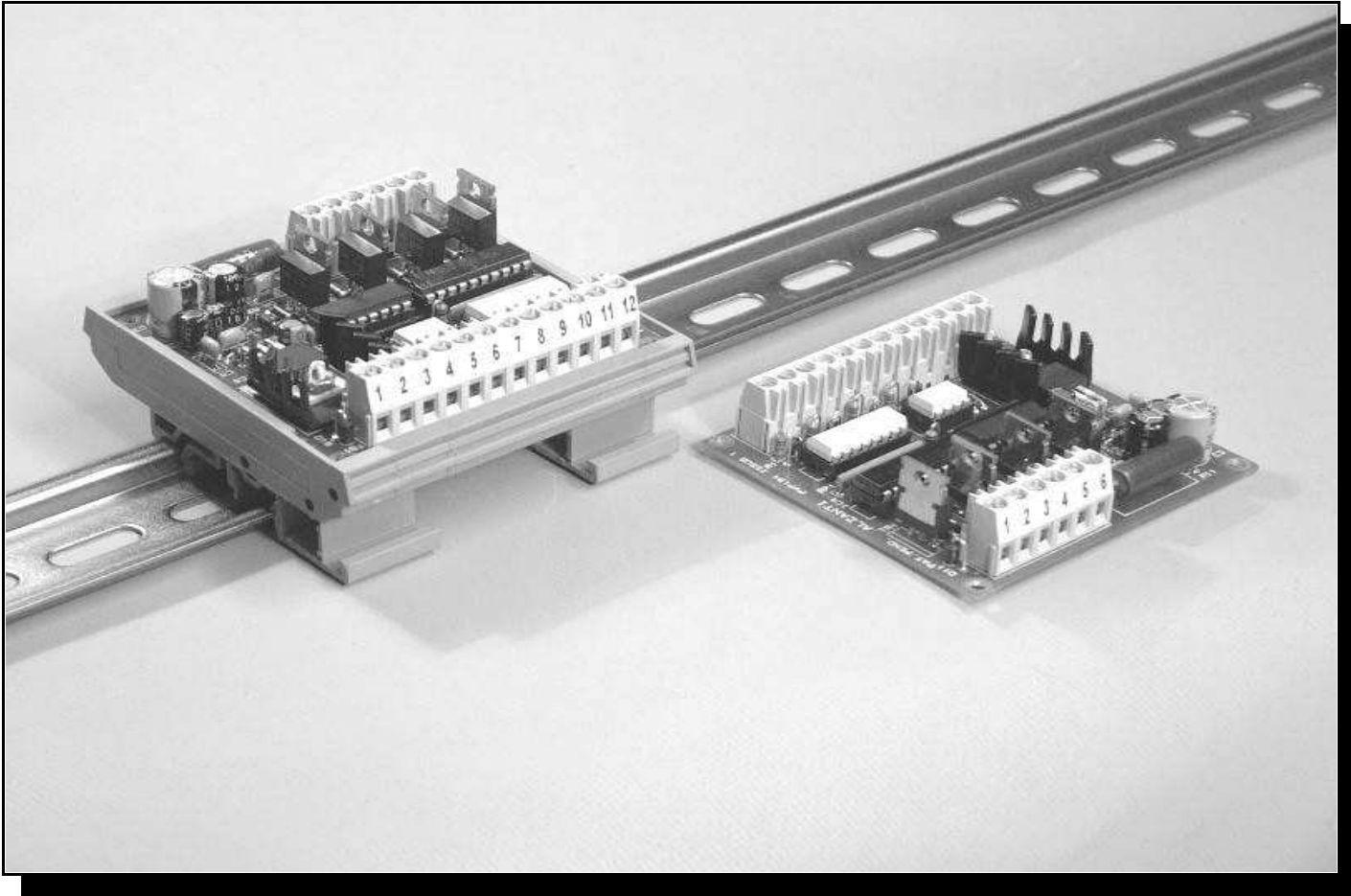

PVP194 2Amp UNIPOLAR STEPPER DRIVE MODULE



The PVP194 Stepper Motor Drive Module, manufactured by Alzanti, has been developed to meet the growing demand for highly flexible, cost effective, unipolar drivers. It has been designed to be compatible with the specifications of many types of stepper motors with 6 or 8 leads, and is suitable for numerous applications. The use of high performance MOSFETS provide very low on-resistance thereby eliminating the need for additional heatsinking.

The **PVP194** can deliver a maximum continuous motor current of up to 2 Amps per phase. Motor phase current can be set by fitting external L/R limiting resistors. This in turn allows a wide range of motors up to NEMA frame size 34 to be driven, at voltages up to 40Vdc.

All control signal inputs have uncommitted opto isolators which means that sinking (NPN) or sourcing (PNP) drivers can be used, thereby making interface possible to a wide range of PLC's and other control equipment. The module is supplied, as standard,

with the opto isolators configured for 5 Volt operation, 12 Volt or 24 Volt options can be provided on request.

Other standard features include: Full/half step mode selection; "wave" drive mode selection; output stage disable function.

Optional extra: The board can be supplied in a DIN rail mount housing, suitable for standard 'top hat' and 'C' section rails .

Ordering codes:

PVP194-5	+5V opto input configuration
PVP194-12	+12V opto input configuration
PVP194-24	+24V opto input configuration
PVP194-DIN-5	+5V opto config + DIN housing
PVP194-DIN-12	+12V opto config + DIN housing
PVP194-DIN-24	+24V opto config + DIN housing



ALZANTI®
THE DRIVING FORCE IN MOTION CONTROL

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SPECIFICATION

PVP194

Motor Supply Voltage:	5 to 40Vdc (maximum) smoothed, unregulated
Motor Output Current:	2 Amps maximum (NPN sinking)
Logic Supply Voltage:	9 to 40Vdc (maximum) smoothed, unregulated
Logic Supply Current:	60mA (typical)
Max. Step Pulse Frequency:	10kHz, 1:1 mark/space ratio, minimum pulse width 50µS
Control Signal Inputs:	Uncommitted opto isolated inputs for use with sinking (NPN) or sourcing (PNP) drivers. Nominal LED operating current 15mA set by on-board series resistors (see data sheet for details). Absolute maximum LED forward current 40mA. LED reverse bias protection diode fitted. Typical isolation voltage 2500Vrms
Temperature Ranges	
Storage:	-10 °C to +70 °C maximum (RH ≤60%, non condensing)
Operating:	0 °C to +40 °C ambient max. (RH ≤60%, non condensing)
Weight:	Approx. 80g, board only, 140g with DIN housing
Connectors:	PCB mounted terminal blocks, cable size 2.5mm ² max.
Printed Circuit Board:	Glass Fibre FR4 UL94V-0, 1.6mm, PTH, Resist and Ident

Dimensions in mm

4 x Fixing holes, diameter 3.20

