

PVD3D1E, Single solenoid proportional valve driver, epoxy potted

Benefits and Features:

- Versatile digital design
- Large, easy-to-use adjustments and 3-digit seven-segment LED display
- Wide range of supply voltage
- Electronic limiting circuit / short circuit proof
- Load can be connected & disconnected live
- Protected against wrong connection
- Simple control with analog input, the reference voltage is locally supplied
- Energy efficient PWM circuit, no heat sink is required
- Current sensing maintains output regardless of changes in supply voltage and coil resistance



Specifications:

- Operating voltage: 9 - 35VDC
- Maximum output current: 3A
- Ramp time: 00.0 to 99.5s
- Linearity: 0.5%
- Input signal: user selectable
0-5V, 0-10V, 0-20mA or 4-20mA
- PWM / Dither frequency: 50-500Hz
- Operating temperature: -40° to +75° Celsius
- Size: 3.00" x 0.875" x 3.25" (4.00" with flanges)

Settings & Range:

HI : high, output current corresponding to the highest input, 0.00 to 3.00 A
JG: jog, used to simulate signal
LO: low, output current corresponding to the lowest input, 0.00 to 3.00 A
UP: ramp up, time required for the output to increase from LO to HI, 0.00 to 99.9 s
dn: ramp down, time req'd for the output to decrease from HI to LO, 0.00 to 99.9 s
db: deadband, output is disabled when command signal is less than this setting
dF: dither frequency, 0.50 to 5.00 Hz
in: input signal selection, 0.05 (0-5V), 0.10 (0-10V), 0.20 (0-20mA) or 4.20 (4-20mA)
di : display orientation, normal or up-side-down
SA: save settings

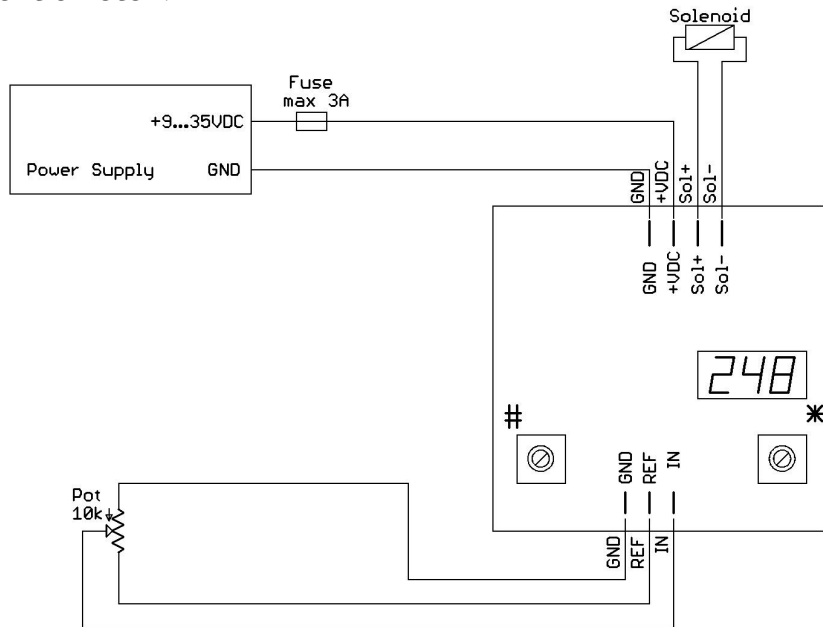
Set-Up Procedure:

At power up, you may rotate # to the right to read the actual solenoid output current directly in Amps or to the left to read the command input signal in V or mA, corresponding to the input range pre-selected. To enter set-up mode, rotate *; the display will show the settings sequentially: HI, JG, LO, UP, dn, db, dF, in, di and SA. When you reach the setting that you want to modify, rotate # up or down to the desired value. To modify another setting, rotate * and repeat. The Driver is fully functional during the set-up procedure with any adjustments effective immediately (except the input range selection that becomes effective only after saving). In order to write the new settings in the memory and return to normal mode of operation, rotate * until the display shows SA and then rotate #. If you do not want to keep the new settings, simply power down without saving.

WE RESERVE THE RIGHT TO DISCONTINUE MODELS OR CHANGE SPECIFICATIONS WITHOUT NOTICE OR INCURRING OBLIGATION

Wiring examples:

with signal source from joystick or potentiometer :



with signal source from PLC or Analogue Card:

