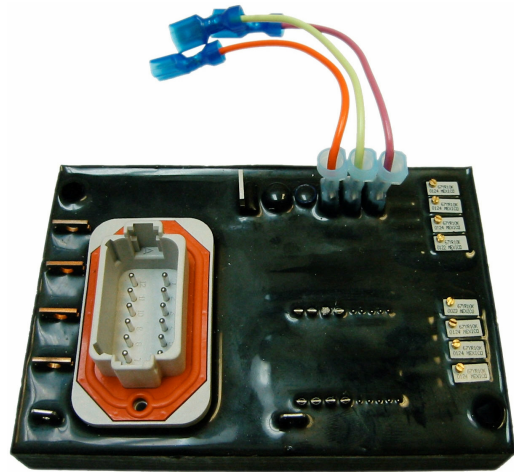




8000-289 Dual PWM Module

Features

- The 8000-289 is a Dual Pulse Width Modulated (PWM) Controller
- Used for proportional control of solenoid valves (hydraulic, pneumatic) and small DC motors.
- Two adjustable independent PWM and auxiliary outputs.
- Low and High Range adjustability within each PWM.
- Both PWM's controlled from a single input device (rotary potentiometer, hall effect sensor etc)
- Multi-turn potentiometers for adjusting start value and threshold value for each of the ranges within the PWM.
- Solid State Microprocessor based design allows for easy changes to logic and PWM output – customized and reprogrammed(FLASH memory) easily.
- Software programmable ramp up, ramp down & PWM frequency.
- All outputs have short circuit protection and fly-back diode spike suppression.
- Reverse Polarity Protection against inadvertent reversal of power and ground.
- Battery Voltage Spike Suppression for suppressing voltage spikes due to alternator load dumps .
- Test points for calibrating and monitoring PWM's.
- 12 to 24 VDC Operation
- Fully Encapsulated with Potting Compound (CONAP EN2521)- seals against moisture, dust and other elements allowing it to be used in harsh environments.
- Keyed Deutsch Connector for easy connectivity to harness – Plug And Play Module.
- Accessories such as pigtail harness available
- One year limited warranty on materials and workmanship



Operation

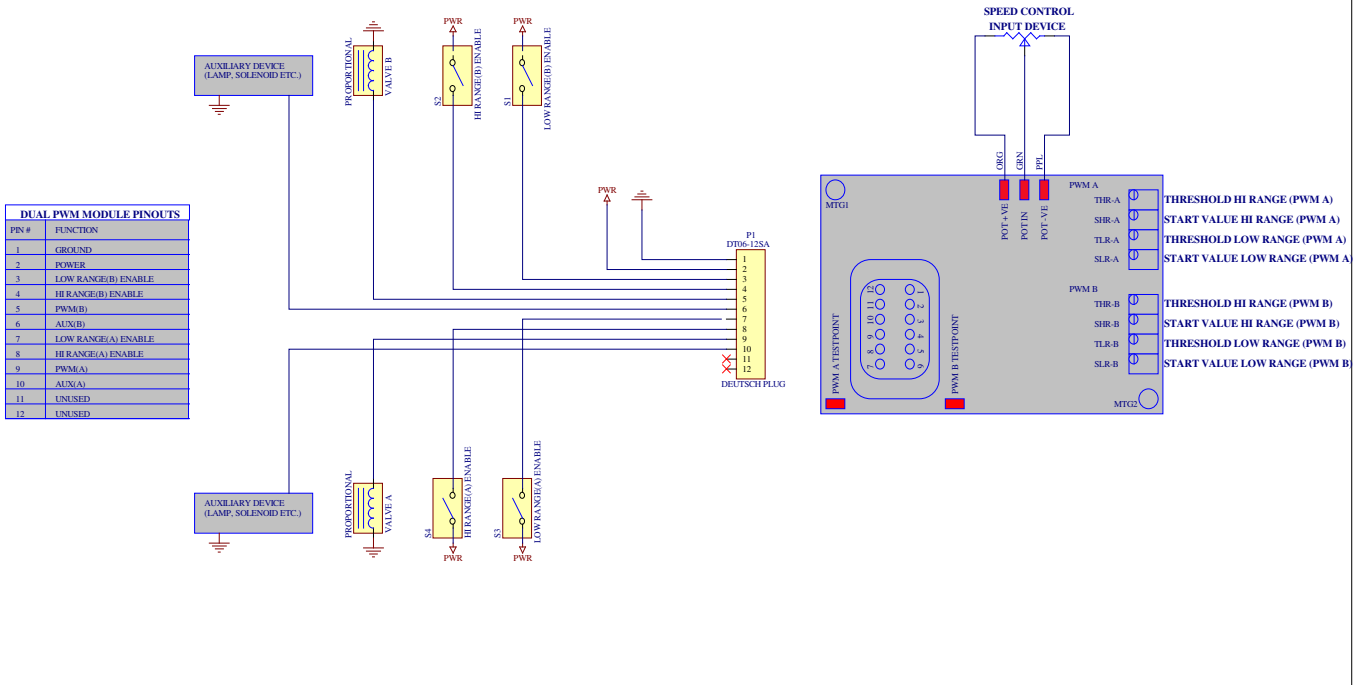
- In order for the PWM to be generated, the module has to receive the speed control information from an input device such as a potentiometer or a hall effect sensor and the PWM enable inputs.
- The PWM enable inputs need to switch power in order for the module to generate PWM's.
- Once the above two conditions are met, the microprocessor determines which PWM to output. The PWM output is trimmed or adjusted by turning the corresponding potentiometers on the module.
- The Start Value and Threshold Value can be adjusted.
- Start Value corresponds to when the valve or DC motor just starts to move.
- Threshold Value corresponds to the safe maximum rating for speed or valve opening.



8000-289 Dual PWM Module

Items	Specifications
Module dimensions	5.0"L x 3.5"W x 0.7"H
System Voltage	12-24 VDC
PWM Adjustability	0 to 100%
Current Rating – PWM & Auxiliary	5 Amps per Output (Short Circuit Protected)
Control Signal Input	0 to 5V
Encapsulation Material	CONAP EN2521 – Black Potting Compound

TYPICAL WIRING DIAGRAM



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