

data sheet

model DM212VSP

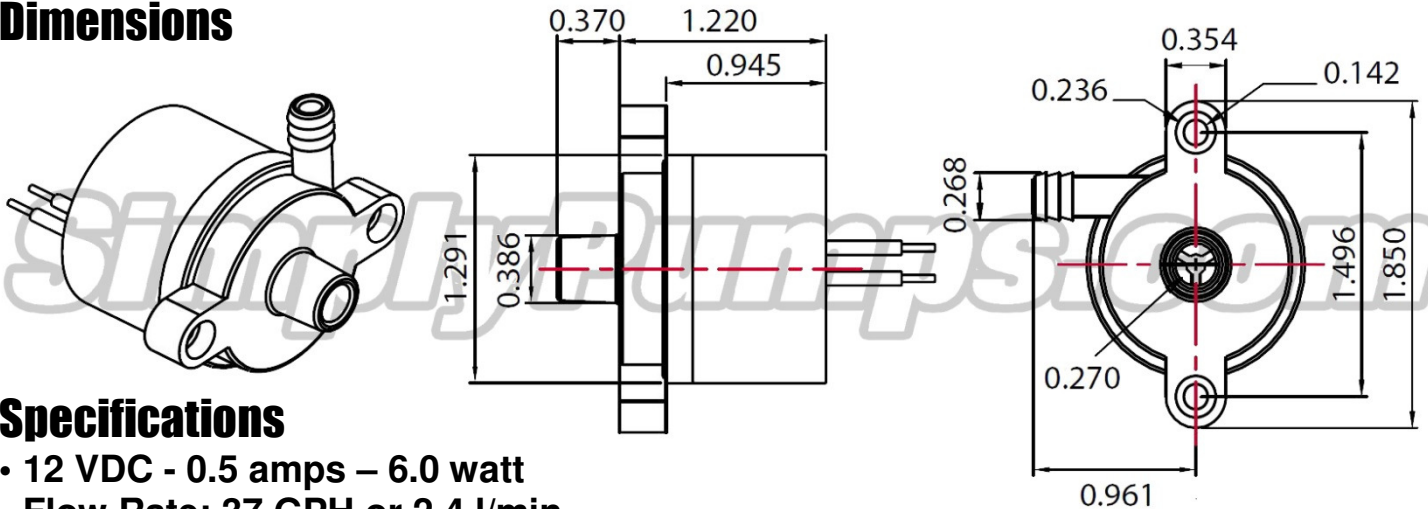
DYNAMAX pump series™

Features

- Brushless three phase motor
- Internal controller, four wire design
- Variable speed using R/C-type PWM input
- Arduino compatible
- 20,000 hour life expectancy
- Magnetically coupled impeller
- Can be submersed or used in-line
- Removable inlet screen for in-line use
- Specifications can be customized
- Long life ceramic impeller shaft
- Quiet and extremely durable
- Yellow wire RPM feedback



Dimensions



Specifications

- 12 VDC - 0.5 amps – 6.0 watt
- Flow Rate: 37 GPH or 2.4 l/min
- 0.375" inlet tubing, inlet ID 0.270", OD 0.375"
- 0.250" outlet tubing, outlet ID 0.170", OD 0.268"
- Weight: 1.9 ounces
- Input leads: 39 inches long
- 22 AWG power leads, 24 AWG signal leads
- Green wire: 0 to 5V 1ms – 2ms pulses
- Yellow wire: 3.3V, 1 pulse per revolution feedback



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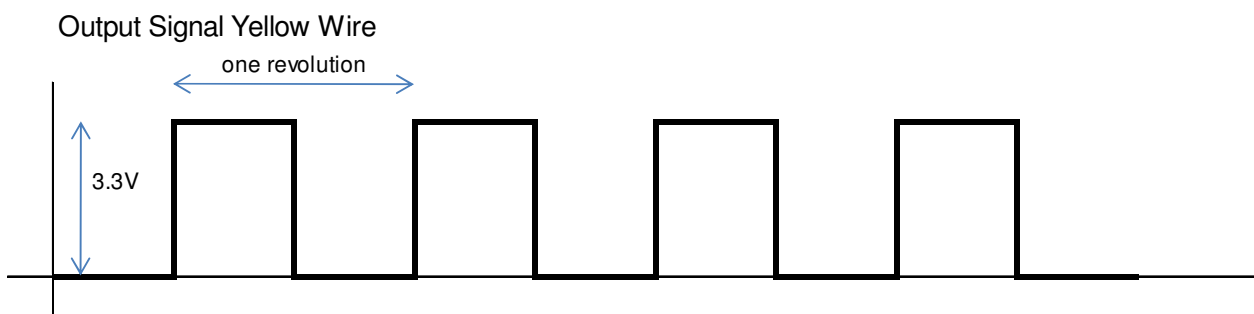
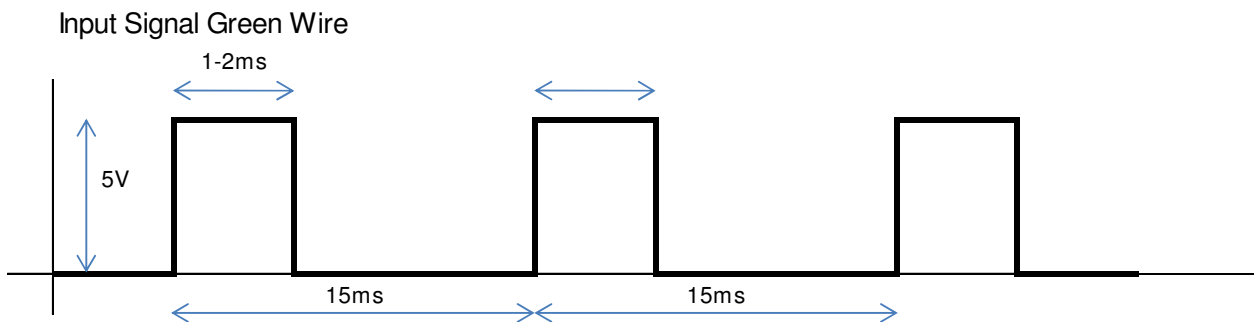
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Control/Feedback

Speed is controlled by sending a radio-control (R/C) format PWM signal to the green wire. A square wave with a period of about 15ms is sent, with the high state duration ranging from approximately 1ms for pump off to approximately 2ms for pump maximum. For more detail, see:

https://en.wikipedia.org/wiki/Servo_control

A valid signal is necessary – if the green wire is left unconnected, the pump runs at maximum speed. The yellow wire provides pump speed feedback, one 3.3V pulse per revolution.



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