

Description: Digital 5 to 24 volts draft beer flow meter

Signal: The DC pulse train is produced in two steps.

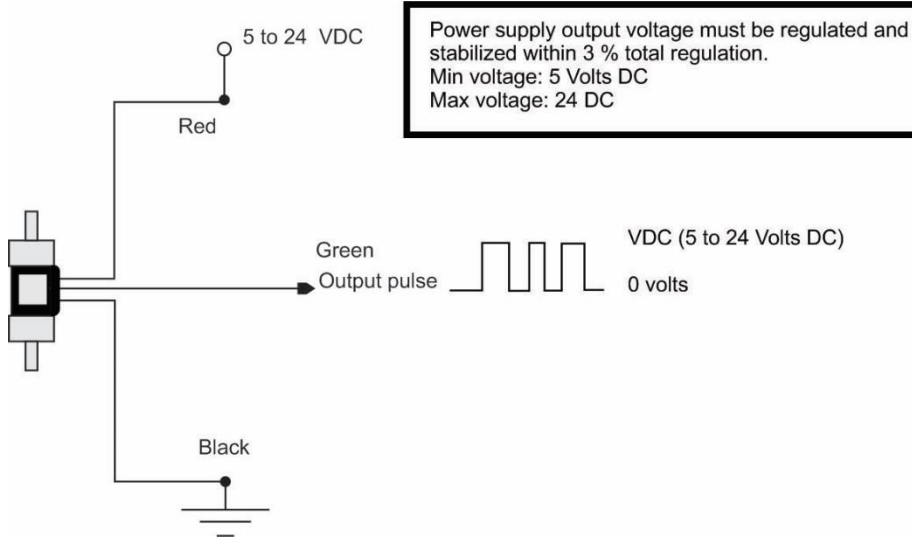
1. A small magnet rotating inside a coil of magnet wire located in the mid section produce an AC pulse train.
2. A small circuit is connected to the coil to amplify and digitize the pulse train to produce a square pulse proportional to the voltage applied and in frequency, to the flow rate of the liquid passing through the flow meter.

Typical flow rate usage: 2 Oz/sec

Minimum flow rate: 0.5 Oz/sec

Wires:

1. Red = V+
2. Black = GND
3. Green = pulse out



Assembly:

Tubing adapters should be tighten by hand holding the lexan nuts with both hands. Faucet wrenches can be used as well. **DO NOT OVER TIGHTEN.**

WARNING: There is a coil of magnet wire in the mid section. Never hold the flow meter by its mid section to tighten the tubing adapters.



Wiring:

Do not touch or invert wires with the power on as it will probably damage the circuit. **Verify all your connections before applying power to the flow meter.**

Mounting:

The flow meter should be held in place using cable ties or plastic clamps at both ends. **DO NOT SECURE THE FLOW METER BY ITS MID SECTION as it may damage the coil or the circuit board.**

Magnetic sources:

The coil inside the flow meter is sensitive and will pick-up AC interferences if installed too close to **AC MOTORS, AC SOLENOIDS or TRANSFORMERS**. A typical 50/60 HZ frequency will generate 50/60 pulses per second at the flow meter if pick-up by the coil. **Mount the flow meter 30 cm or more from these.**

Rubber coating option:

The rubber coating is intended to protect the electronic parts of flow meter from humidity and spilled liquids. The integrity of the coating is important especially where the cable comes out to ensure liquids do not penetrate inside. The rubber coating is not designed to submerge the flow meter for extended periods. The cable should be restricted from movement and secured in its natural position to reduce the stress on the rubber where the cable goes in the flow meter.

Check valves:

If the flow meters are mounted after a tee in the beer tubing, a check valve may be required to prevent unwanted movement of the flow meter propeller caused by pressure drops in the tubing when other valves or faucets are opened.

Cleaning:

Flow meters are normally cleaned using beer line cleaning chemicals following the same schedule as the beer dispensing system. Flow meters should not be left in empty beer tubing as the propellers may eventually jam in dried beer.

