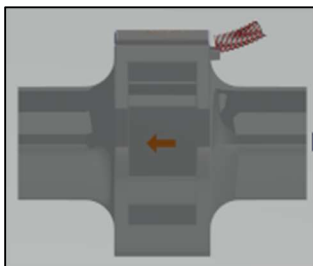


## Product Description



FlowPro's Model 214 and 314 are 2" and 3" vortex inline flowmeters. They provide highly accurate, real time flow monitoring. The 2 wires provide power and signal with a proportional frequency output.

## Specifications

<b>Pipe Sizes</b>	2", 3"
<b>Flow Rang</b>	
	2": 4.0 to 100.0 GPM 3": 9.0 to 225.0 GPM
<b>Accuracy</b>	+/-2% of reading
<b>Update Rate</b>	Displayed: 1.7 seconds Wireless: Factory Programmable
<b>Stability</b>	0.25% over 5 years
<b>Construction Materials</b>	
-Vortex Sensor	EPDM Rubber (wetted surface)
-Meter Body	ABS
<b>Installation</b>	
-Meter Orientation	All orientations acceptable *pipe must be full
-Special Requirements	10 diameters upstream straight run, 5 diameters downstream for guaranteed meeting of accuracy specification.
<b>Power</b>	See Electrical Interface Specification Section

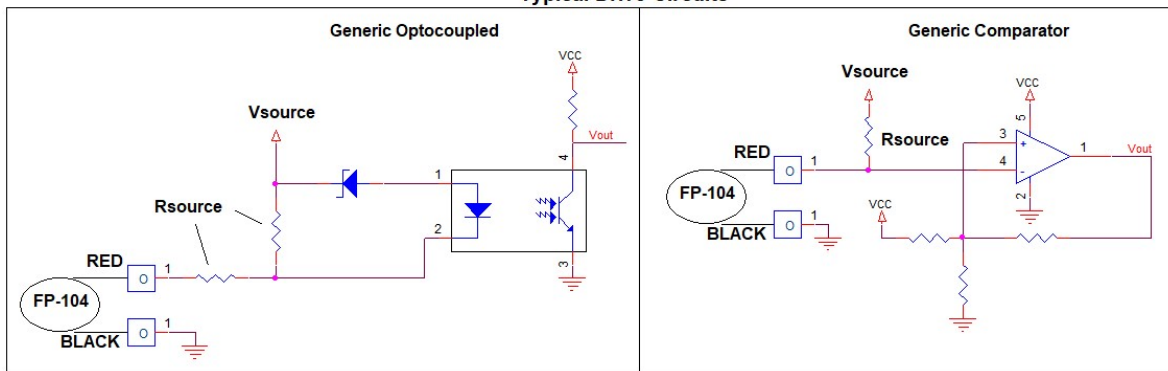
## Electrical Interface Specifications:

<b>Frequency</b>	Exact To Be Determined. <b>Min: 1Hz; Max: 100Hz</b>
<b>Pulse Width</b>	1ms
<b>Current</b>	900uA @ 0.5Vdc to 40Vdc
<b>Vhigh</b>	Supply voltage - (900uA * Supply Impedance)
<b>Vlow (ON state)</b>	1Vdc @ up to 25mA
<b>Vsource (min)</b>	9V @ Max Source Impedance 1000 ohms (*See Note 1)

**NOTE 1:** Maximum impedance at any source voltage can be determined by the following equation:

$$R_{\text{source-max}} = V_{\text{source}} / (0.08 / V_{\text{source}})$$

### Typical Drive Circuits



## Cable Specifications:

<b>Included cable</b>	18awg solid copper, Red for positive, Black for negative
<b>Attached Lead Length</b>	12"
<b>Maximum Lead Extension</b>	1000 feet with twisted pair shielded
<b>Connection</b>	Leak tight wire nuts preferred

## Conversion Equations:

$$\text{Frequency} = \text{GPM} / K$$

$$\text{GPM} = \text{Frequency} * K$$

Pipe Size	K
2"	1.0
3"	2.25