Micro Water Flow Sensor

(AMWF - 0.2)

PRODUCT SPECIFICATION SHEET



FEATURES

- This sensor has excellent character in low pressure.
- The out pulse frequency has linear character in flux change.
- This sensor has a half-permanent life by high sensitivity semiconductor sensor.

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APPLICATION

This sensor is used in water flow sensing.

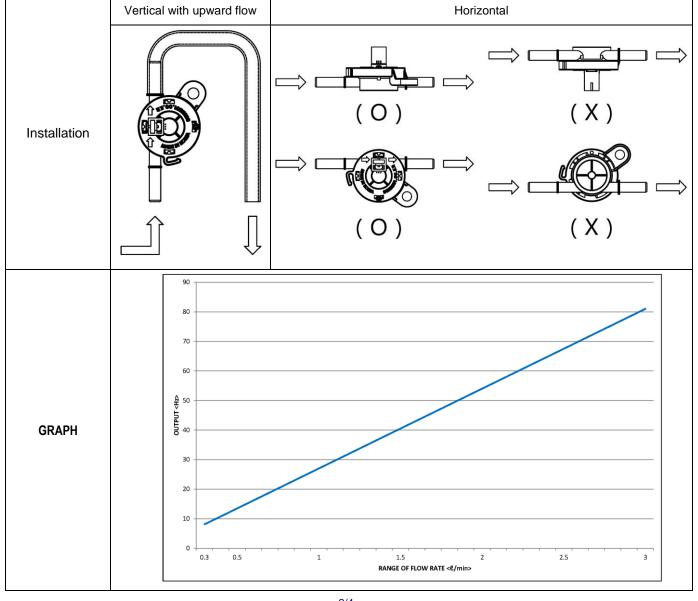
This sensor has application to water ionizer, water purifier, ice maker, coffee machine, and refrigerator appliance.

SPECIFICATIONS

Туре	: Hall sensor	: Hall sensor		
Ambient temperature	: 0 ~ 60℃	: 0 ~ 60℃		
Ambient humidity	: Room humidity (40	: Room humidity (40 ~ 60%)		
Permissible fluid temperature	: 0 ~ 60 ℃ (It shall not	: 0 ~ 60 °C (It shall not be frozen)		
Material	: Body	POM (* Optional)		
	Rotor	POM (* Optional)		
	Magnet	Sm-Co		
	Stop ring	SUS304		
	※Optional : FDA ce	rtified materials.		

SPECIFICATIONS

Efficiency	Fluid	: Water	
	Measuring range	: 0.2 ~ 3.2(ℓ / min	
	Linearity range	: 0.3 ~ 3.0(\(\ell \) / min)	
Formula at Linearity Range (0.3 ~ 3.0 (\ell / min))		: F(Hz) = 27Q(ℓ / min)	Accuracy at Linearity range F.S ± 5%
Working pressure (Max)		: 5 kg/cm ²	
Electrical rating		: DC 2.7V ~ 24V, MAX 4.5mA	
Insulation resistance		: Not less than 100 № (Between the connector and body)	
Dielectric strength		: When AC 600V(50/60 Hz) is added between the connector and body, detecting current is under 3 mA.	
Pipe Connection		: Refer to DIMENSIONS	



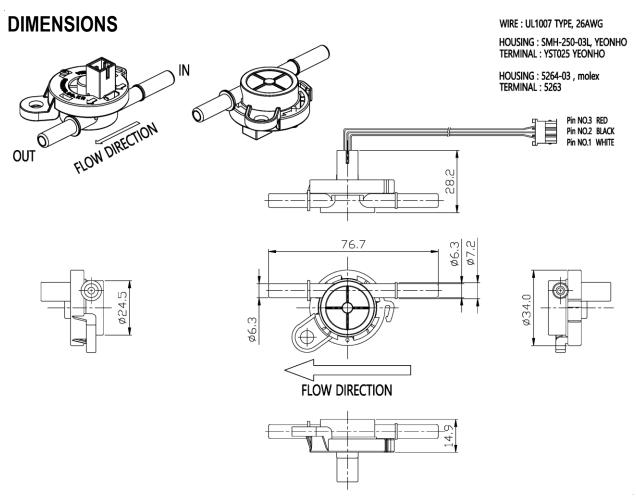


Fig 1. Micro water flow sensor

The specifications and dimensions can be changed without warning

- NOTE -
- · Ensure there is no foreign substance.
- · Ensure that there is no fast-pulsatory movement of the media
- Ensure that there are no reverse pressure surges
- · Ensure that there is no air in the system
- · Note the mounting position of the flowmeter
- · Min/max flow should be in the linear range of the selected flowmeter
- · Clean the system at appropriate intervals
- Avoid electrical current peaks
- · Incorrect cabling of power supply +, signal and ground will destroy the flowmeter
- Avoid stray pick-up via the cable (Do not lay cables in parallel with high current loads)
- Avoid strong magnetic materials.
- · Avoid operation by air-flow.
- Avoid using at the condition of circumstance occurring condensation.

APPLICATION CIRCUIT

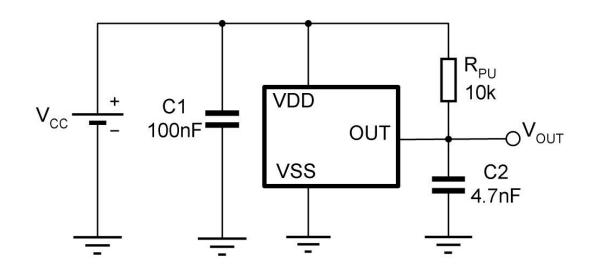
This product includes semiconductor IC.

So this have to be protected from noises of outside circuit.

Please refer to a circuit as below.

(This circuit for protecting from noise was supported by the supplier of semiconductor)

Typical Three-Wire Application Circuit



Automotive and Harsh, Noisy Environments Three-Wire Circuit

