

Micro Water Flow Sensor

(AMWF – 8)

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

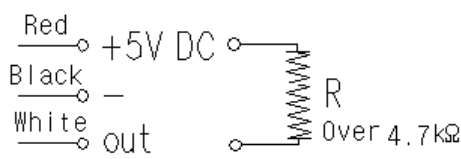
This sensor is used in water flow sensing.

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

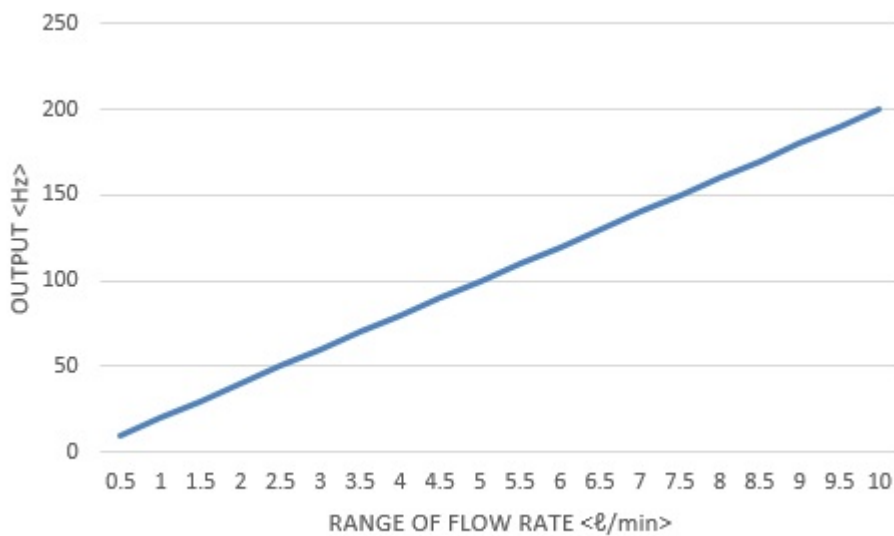
SPECIFICATIONS

Type	: Hall sensor	
Installation	: Both direction	
Ambient temperature	: 0 ~ 60℃	
Ambient humidity	: Room humidity (40 ~ 60%)	
Permissible fluid temperature	: 0 ~ 60℃ (It shall not be frozen)	
Material	: Body	POM (※ Optional)
	: Rotor	POM (※ Optional)
	: Magnet	Ba – Ferrite
	: Stop ring	SUS304
	※ Optional : FDA certified materials.	

SPECIFICATIONS

Efficiency	Fluid	: Water	
	Measuring range	: 0.4 ~ 10.0 ℓ / min	
Flow rate – pulse Formula $F(\text{Hz})=20Q(\ell/\text{min})$		Flow rate Q (ℓ/min)	Pulse signal (Hz)
		0.5	10
		1.0	20
		5.0	100
		10.0	200
		Accuracy F.S ± 5%	
Working pressure (Max)		: 10 kg/cm ²	
Electrical rating		: DC 2.7V ~ 24V, 4.5mA	
Duty cycle		: 30 ~ 70%	
Insulation resistance		: Not less than 100 MΩ (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		: Ø8 (Stem 5/16") / Ø9.5 (Stem 3/8")	
Weight		: 42.6g	

GRAPH



DIMENSIONS

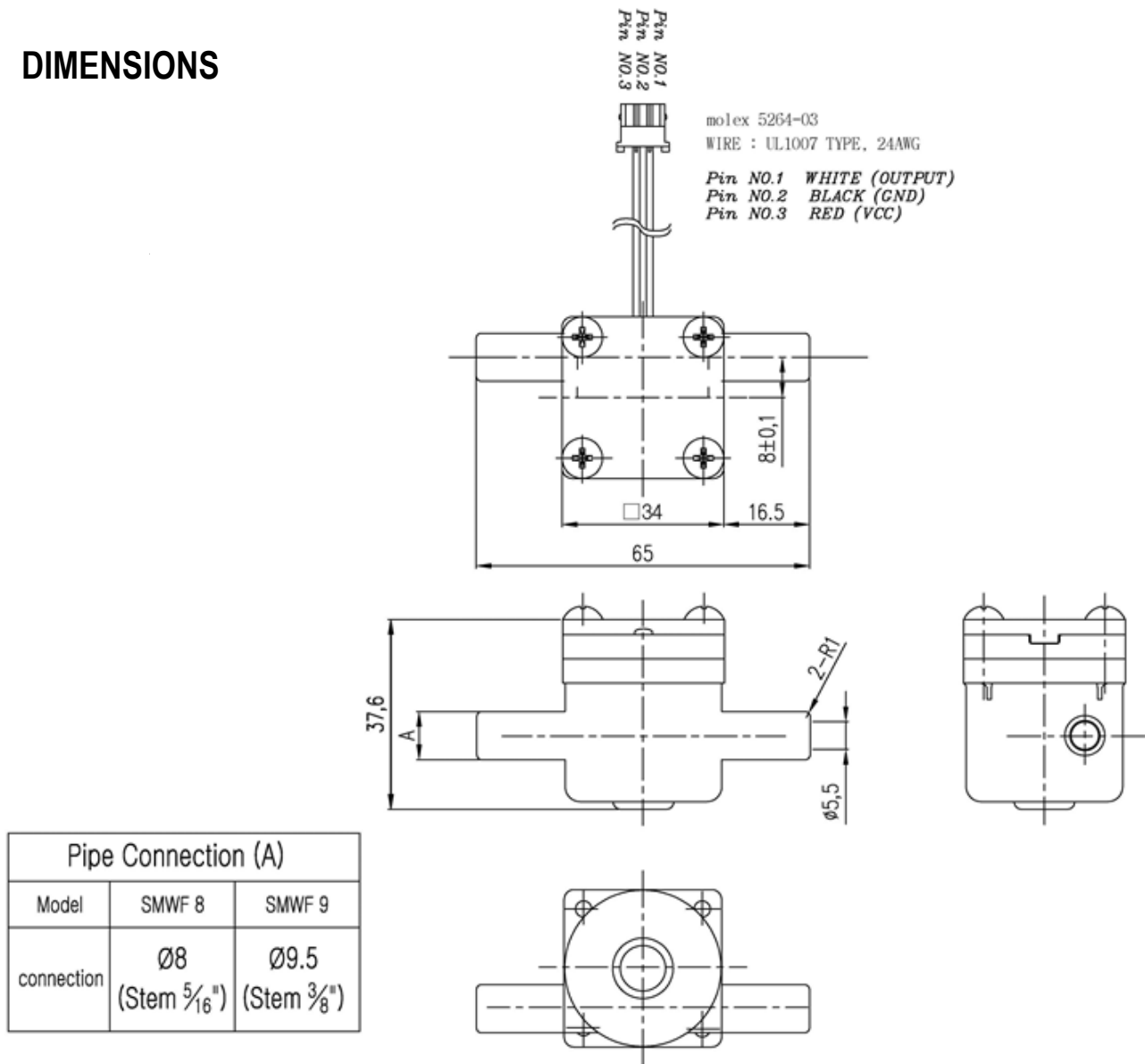


Fig 1. Micro water flow sensor

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
- Do not mechanically load electrical contacts
- Avoid moisture on the electrical contacts
- 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 occuring condensation.